

Theoretische inleiding voor het vinden van informatie uit octrooien

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COLOFON

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document in paragraaf C.2, document in paragraaf C.3

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Hoofdstuk 1

Inleiding

1.1 Voor de lezer

Wil je jouw ontwikkelingsproces voor een innovatief product efficiënt uitvoeren? Wil je potentiële kostbare problemen na de marktintroductie van een innovatief product vermijden?

Het tijdig gebruiken van informatie uit octrooien is nuttig om je te helpen technische en zakelijke beslissingen te nemen tijdens het ontwikkelingsproces en om potentiële problemen na de marktintroductie te voorkomen.

Om je te helpen deze informatie te vinden, geeft dit document een inleiding in de theoretische achtergrond van het zoeken in octrooidatabanken. Deze achtergrond helpt jou om in de praktijk de relevante documenten te kunnen vinden.

Het is nuttig voor zowel de beginnende als de meer ervaren onderzoeker in octrooidatabanken om inzicht te krijgen in de achtergronden van de keuzes die bij het zoeken gemaakt moeten worden. Deze keuzes moeten gemaakt worden om efficiënt te kunnen zoeken en de vragen van een onderzoek met voldoende kwaliteit te kunnen beantwoorden.

Het wordt niet verwacht dat een beginnende onderzoeker alle achtergrondinformatie direct begrijpt. Het zal daarom nuttig zijn om dit document te herlezen op een moment dat er meer ervaring is opgedaan.

Met zoekervaring en de informatie in dit document zou je octrooidocumenten efficiënt moeten kunnen vinden en de zoekvragen met voldoende kwaliteit moeten kunnen beantwoorden.

1.2 Wat is zoeken?

Tegenwoordig gebruikt iedereen zoekmachines op internet, zoals Google, om informatie te vinden. Deze zoekmachines hebben algoritmes om de meest relevante resultaten als eerste te presenteren. Voor veel alledaagse vragen is dit voldoende.

Het vinden van vooral technische informatie voor onderzoek en ontwikkeling vraagt om resultaten die voldoende compleet zijn en waarvan de omvang en diepgang van deze informatie bij aanvang niet bekend is. Deze resultaten zijn zeer moeilijk te realiseren met de manier waarop de zoekmachines op internet werken.

De basiskennis, die benodigd is om deze informatie voor onderzoek en ontwikkeling te vinden in de octrooidatabanken, wordt behandeld in hoofdstuk 2. Deze basiskennis geeft je de mogelijkheid om uit de enorme hoeveelheid octrooidocumenten een werkbare selectie te maken.

Een eerste overzicht van het zoekproces ziet er als volgt uit:

De eerste stap van zoeken is:

Selecteren van een werkbare hoeveelheid octrooidocumenten uit de totale enorme hoeveelheid octrooidocumenten.

De tweede stap is:

Selecteren van relevante documenten uit deze eerste selectie.

De moeilijkste stap is:

Weten wanneer je klaar bent.

1.3 Relevante informatie

De te beantwoorden vragen, die in het proces van onderzoek en ontwikkeling ontstaan, bepalen welke informatie relevant is. Het definiëren van deze vragen en relevante informatie wordt in andere handleidingen, zoals de handleiding voor analyses van octrooilandschappen, behandeld.

De benodigde relevante informatie is van grote invloed op een succesvol resultaat, maar heeft meestal weinig invloed op de methode van het zoeken. De beschreven basiskennis is daarom op vele zoekvragen van toepassing.

Hoofdstuk 2

Basis

2.1 Inleiding

Weten welke informatie je nodig hebt is cruciaal om te kunnen beginnen met zoeken. Daarom worden in paragraaf 2.2 eerst de belangrijkste criteria geïntroduceerd om de kwaliteit en efficiëntie van een zoekopdracht te definiëren.

Vervolgens wordt het proces van het definiëren en vinden van relevante documenten beschreven in paragraaf 2.3 en paragraaf 2.4

Als je de belangrijkste criteria kent en weet welke resultaten nodig zijn, kun je een set documenten selecteren in paragraaf 2.5 en weten wanneer de zoekopdracht kan worden voltooid in paragraaf 2.6.

2.2 Volledigheid en nauwkeurigheid

Volledigheid en nauwkeurigheid zijn belangrijk voor de beoordeling van het zoekproces, omdat de kwaliteit en de efficiëntie van het zoekproces belangrijk zijn. Hoewel de volledigheid moeilijk te meten is, kan het toch worden gebruikt om de kwaliteit van jouw zoekproces te begrijpen.

In de praktijk is een 100% volledigheid en tegelijkertijd een 100% nauwkeurigheid niet mogelijk. Het zoekproces is daarom altijd een afweging tussen efficiëntie en kwaliteit.

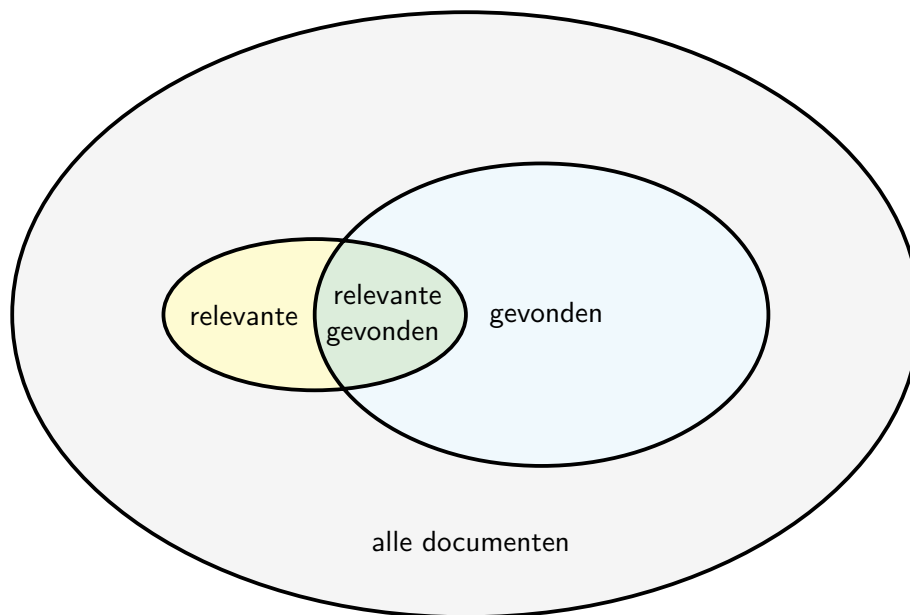
Volledigheid is gedefinieerd als: verhouding van gevonden relevante documenten en alle relevante documenten.

$$\text{volledigheid} = \frac{\text{gevonden relevante documenten}}{\text{alle relevante documenten}}$$

Nauwkeurigheid is gedefinieerd als: verhouding van gevonden relevante documenten en alle gevonden documenten.

$$\text{nauwkeurigheid} = \frac{\text{gevonden relevante documenten}}{\text{alle gevonden documenten}}$$

De verzamelingen documenten die voor beide criteria worden gebruikt, zijn weergegeven in figuur 2.1.



Figuur 2.1: De verzamelingen van documenten zoals gebruikt in de criteria voor volledigheid en nauwkeurigheid

Een goede kwaliteit van het zoekproces is in veel gevallen van belang. Bij bijvoorbeeld productontwikkeling is het van belang dat jouw vragen over de octrooi-informatie voor jouw ontwikkeling volledig worden beantwoord. Het missen van een relevant document kan leiden tot onnodige ontwikkelingen of tot het niet kunnen verkopen van een product. Dit kan ernstige financiële gevolgen hebben.

De volledigheid is daarom een goed criterium om de kwaliteit van het zoekproces te beoordelen. Normaal gesproken kan de gehaalde volledigheid alleen worden geschat door het zoekproces opnieuw uit te laten voeren door een andere persoon. Het is dus geen criterium waarmee eenvoudig de kwaliteit van het zoekproces kan worden beoordeeld. In de volgende paragrafen wordt beschreven hoe je met het volledigheidscriterium kan werken.

De efficiëntie van een zoekproces heeft een belangrijk effect op de kosten van het zoekproces. Voor het beoordelen van de efficiëntie kan het nauwkeurig-

heidscriterium worden gebruikt. Dit kan eenvoudig worden gemeten nadat het zoeken is voltooid door het totaal aantal geselecteerde documenten te vergelijken met de relevante documenten. Deze vergelijking heeft op zichzelf vrijwel geen waarde. Bij het vergelijken van verschillende zoekprocessen of met collega's kan deze vergelijking wel worden gebruikt om de efficiëntie te beoordelen. Ook in de volgende paragrafen wordt het gebruik van dit criterium beschreven.

Over het algemeen werken volledigheid en nauwkeurigheid in tegengestelde richtingen: naarmate de volledigheid verbetert, neemt de nauwkeurigheid af, en naarmate de nauwkeurigheid toeneemt, neemt de volledigheid af. Tijdens het zoeken zul je voor jezelf een keuze moeten maken over deze balans. Het grote probleem hierbij is dat je normaal gesproken niet de volledigheid van jouw zoekproces weet. Ervaring met zoeken helpt om deze balans beter in te schatten. Dit wordt ook duidelijk gemaakt in de volgende paragrafen.

Voor meer informatie over volledigheid en nauwkeurigheid, zie bijvoorbeeld [wikipedia](#).

2.3 Relevante resultaten definiëren

Voordat je met zoeken begint, moet je een duidelijk beeld hebben van wat de relevante resultaten moeten zijn. De relevante resultaten worden bepaald door de vragen die in het onderzoek beantwoord moeten worden.

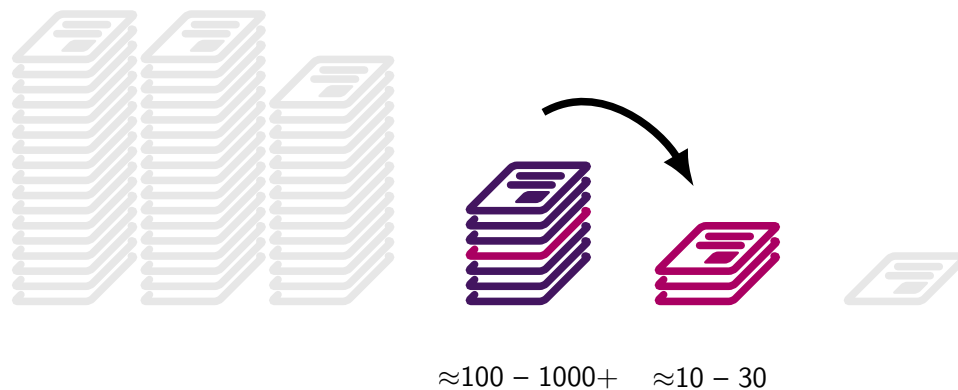
Voor een [examiner](#) bepalen de claims van de octrooiaanvraag hoe relevant de gezochte documenten zijn. Dit is een relatief duidelijk criterium om te gebruiken bij de selectie van de documenten. Als je onderzoek doet naar technische oplossingen is het criterium om documenten te selecteren minder duidelijk, omdat je vaak zoekt naar concepten of alle oplossingen voor een bepaald probleem. Wat in dit geval helpt, is het bepalen van een kenmerk of enkele kenmerken die in een document aanwezig moeten zijn om relevant te zijn. Hierdoor kan je snel mogelijke relevante documenten selecteren.

Een andere belangrijke reden om een duidelijke definitie van de relevante resultaten te hebben, is dat je hiermee kunt bepalen waar je *niet* naar moet zoeken. Als het mogelijk is om bepaalde technische gebieden of toepassingen uit te sluiten, zal dit het aantal documenten verminderen (en de nauwkeurigheid vergroten).

2.4 Een verzameling verwerken

Nadat je hebt gedefinieerd wat relevante resultaten zijn, kan je beginnen met het selecteren van de relevante documenten.

Vaak is het lastig om snel te bepalen of een document echt relevant is. Om dit te bepalen moet je normaal gesproken het document lezen. Te veel documenten lezen is niet mogelijk in een beperkte tijd. Daarom selecteer je in eerste instantie mogelijk relevante documenten uit een werkbare verzameling documenten (zie figuur 2.2). Je selecteert mogelijk relevante documenten door gebruik te maken van jouw criterium voor het selecteren van deze documenten zoals beschreven in de vorige paragraaf.



Figuur 2.2: Een verzameling verwerken; eerste selectie

Bij deze eerste verwerking is het normaal gesproken niet nodig om de documenten te lezen. Vaak is het voldoende om de afbeeldingen te bekijken of de samenvatting (of eventueel ook een deel van de beschrijving) te lezen om te zien of een document wel of niet aan jouw criterium voldoet. Zo creëer je in de eerste verwerking een geselecteerde groep van mogelijk relevante documenten.

Wanneer de eerste verwerking is voltooid, is het tijd om de geselecteerde groep documenten nauwkeuriger te bekijken. Door de documenten te lezen, kunnen de echt relevante documenten worden gevonden (zie figuur 2.3). Deze documenten geven de antwoorden op de vragen van jouw onderzoek.

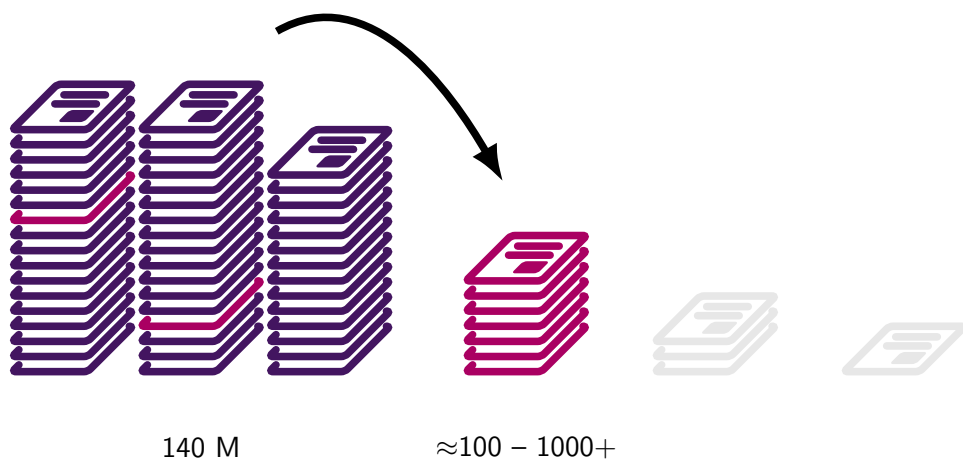
2.5 Verzameling selecteren

Het selecteren van een werkbare verzameling die alle relevante documenten bevat, is het belangrijkste onderdeel van een zoekopdracht. Dit is belangrijk omdat het een grote invloed heeft op de kwaliteit en de hoeveelheid werk (volledigheid en nauwkeurigheid). Zie figuur 2.4 om een indruk van het aantal documenten te krijgen.

In de vorige paragraaf is beschreven hoe je door de verzameling documenten werkt om uiteindelijk alleen de echt relevante documenten te selecteren. Dit is ‘slechts’ veel werk. Het selecteren van deze werkbare verzameling hoeft



Figuur 2.3: Een verzameling verwerken; tweede selectie; lezen om de echt relevante documenten te selecteren



Figuur 2.4: Verzameling selecteren

niet veel tijd te kosten, maar is wel het moeilijkste onderdeel van het zoeken naar informatie uit octrooien.

In de praktijk is het erg lastig om alle relevante documenten te selecteren (voor 100% volledigheid). Een werkbaar doel is daarom om zo dicht mogelijk bij 100% volledigheid te komen met een werkbare hoeveelheid documenten (hoge nauwkeurigheid). Dit deel geeft een introductie in de meest gebruikte methoden om dit doel te bereiken.

De huidige zoekmachines voor de octrooidatabanken beschikken over bepaalde functionaliteiten om een zoekopdracht uit te voeren. Deze mogelijkheden zullen in de volgende paragrafen worden toegelicht in relatie tot het bereiken van het doel om een werkbare verzameling met de relevante documenten te selecteren.

2.5.1 Tekst zoeken

De beschikbare zoekmachines zoals bijvoorbeeld Espacenet of Google Patents maken het zoeken naar woorden in de volledige tekst van de octrooidocumenten mogelijk. Het zoeken in de volledige tekst (ook wel *full-text* genoemd) maakt het mogelijk documenten te selecteren waarbij woorden kunnen worden gebruikt om de relevante kenmerken te beschrijven.

Normaal gesproken is het niet mogelijk om concepten te beschrijven, maar onderdelen of materialen kunnen wel met woorden worden beschreven. De mogelijke synoniemen van de woorden moeten ook worden gebruikt. Het is bijvoorbeeld niet ongebruikelijk dat in het chemisch gebied, waar stoffen normaal gesproken op een gestandaardiseerde manier worden beschreven, voor één stof wel 10 tot 20 synoniemen worden gebruikt.

Octrooien worden in vele talen gepubliceerd en moeten daarom mogelijk ook worden doorzocht met woorden uit de verschillende talen. In Espacenet kunnen alleen de drie officiële talen van het EOB worden gebruikt om te zoeken. In Google Patents kunnen ook andere talen worden gebruikt. Om de zoeker te ontlasten bij het vinden van synoniemen in de verschillende talen, worden in verschillende octrooidatabanken ook automatisch vertaalde teksten in het Engels gebruikt.

Ervaring met zoeken in de volledige tekst leert:

- Bepaalde relevante kenmerken kunnen goed worden beschreven met woorden, andere niet. Onderdelen, materialen of verbindingen zijn vaak wel goed te beschrijven, maar relaties daartussen zijn vaak niet te beschrijven.

Ook hebben niet alle talen woorden voor bepaalde kenmerken. Vaak bestaan er woorden voor een kenmerk in één taal, maar wordt hetzelfde kenmerk beschreven met meerdere woorden in een andere taal.

- De woorden en uitdrukkingen die in octrooidocumenten worden gebruikt, zijn vaak meer beschrijvend in plaats van specifiek, zodat ze een brede betekenis hebben. Daarom kan het lastig zijn om goede woorden voor het zoeken te vinden.
- Om een 100% volledigheid te benaderen moeten alle synoniemen in de verschillende talen gebruikt worden. Dit is vaak niet eenvoudig en vereist kennis en ervaring op het betreffende technische gebied.
- Het bereiken van een hoge volledigheid met alleen zoeken in de volledige tekst resulteert over het algemeen in een zeer lage nauwkeurigheid. Dit betekent dat er een onwerkbaar verzameling documenten wordt geselecteerd.

2.5.2 Met classificatie zoeken

Examiners zoeken al meer dan een eeuw naar octrooien, ook in een tijd waarin computers nog niet beschikbaar waren om te zoeken. Om in deze tijd met alleen een papieren documentatie te kunnen zoeken, zijn octrooi-classificaties ontwikkeld. Het doel van deze classificaties is om verzamelingen documenten te vormen (met een specifieke classificatiecode) die in de buurt komen van de 100% volledigheid die nodig is voor *search reports* voor octrooiaanvragen en tegelijkertijd een hoge nauwkeurigheid hebben. Deze classificatie is nog steeds erg nuttig en wordt tegenwoordig nog veelvuldig gebruikt om zoekopdrachten uit te voeren.

De classificatiesystemen zijn daarmee afgestemd op de zoekopdrachten voor *search reports* bij octrooibureaus. Om deze classificaties af te stemmen op de zoekopdrachten, bouwen en onderhouden dezelfde personen die zoeken (*examiners*) ook de classificatiesystemen en classificeren ze de documenten.

Veel octrooibureaus hebben hun eigen classificatiesystemen ontwikkeld. Sinds de invoering van de International Patent Classification (IPC) heeft er enige standaardisatie plaatsgevonden. Een van de meest gebruikte classificaties naast de IPC is de Cooperative Patent Classification (CPC). In hoofdstuk 3 worden de kenmerken van de verschillende systemen beschreven.

Het gebruik van de juiste classificatiecode voor jouw zoekopdracht zorgt voor hoge volledigheid en hoge nauwkeurigheid. Dit heeft daarom de voorkeur om een werkbaar verzameling te selecteren. Er moet echter aandacht worden besteed aan het vinden van de juiste classificatiecode, omdat het selecteren van een onjuiste code doorgaans resulteert in een volledigheid van nul.

Het vinden van de juiste code vereist zowel kennis van het technische vakgebied als van de classificatiecodes en hoe deze worden gebruikt voor classifi-

catie. Een algemene kennis van de classificatie wordt gegeven in hoofdstuk 3 en wordt aanbevolen om te lezen.

Bij classificatie is de selectie van een verzameling hetzelfde als:

het selecteren van de juiste classificatiecode.

2.5.3 Gespecialiseerde databanken voor specifieke technische vakgebieden

Voor bepaalde technische vakgebieden is het gebruik van full-text of classificatie niet voldoende om een zoekopdracht uit te voeren. Voor deze technische gebieden bestaan er gespecialiseerde zoekmachines en databanken.

Voor de chemie zijn er bijvoorbeeld zoekmachines en databanken waarin een chemische structuur kan worden gezocht.

In bijvoorbeeld de databank chemical abstracts van CAS kunnen sequenties worden gezocht.

2.5.4 Zoekopdrachten in de databanken

De meeste zoekmachines kunnen verschillende zoekopdrachten op een booleaanse manier combineren. Een Booleaanse combinatie betekent dat een logische AND of OR kan worden gebruikt om een zoekopdracht op te bouwen. Met een AND kan het resultaat worden beperkt tot een verzameling waarbij beide zoekopdrachten aanwezig moeten zijn. Met een OR kunnen meerdere alternatieven of synoniemen gecombineerd worden.

Een verzameling kan ook worden geselecteerd door bijvoorbeeld een classificatiecode en woorden te combineren. Daardoor wordt de nauwkeurigheid vergroot ten opzichte van een zoekopdracht met enkel een classificatiecode.

Zie de handleidingen en hulp van de zoekmachines voor de mogelijkheden (zie ook paragraaf B.2).

2.5.5 Ranking

Sommige zoekmachines voeren een ranking in Google-stijl uit op de resultaten, waarbij de resultaten met de hoogste ranking als eerste worden weergegeven. Dit is alleen nuttig als je snel wat resultaten wilt, maar niet nuttig voor een compleet resultaat omdat nog steeds alle documenten bekeken moeten worden.

Meer geavanceerde rankings zoals bijvoorbeeld facetzoeken (zie wikipedia) zijn op dit moment niet beschikbaar. Iets soortgelijks kan worden bereikt door booleaanse zoekopdrachten te herhalen, maar dit is niet erg gebruikersvriendelijk om uit te voeren.

2.5.6 Geciteerde en citerende documenten

De informatie uit [search reports](#) van de octrooiaanvragen is voor een groot deel beschikbaar in de databases van de verschillende zoekmachines. Deze informatie is een waardevolle bron voor relevante documenten:

De search reports van octrooiaanvragen bevatten relevante documenten voor de uitvindingen in die aanvragen.

Neem daarom de geciteerde documenten van reeds gevonden relevante documenten op in jouw selectie en controleer vooral deze op relevantie.

In verschillende zoekmachines zijn ook de documenten beschikbaar die een verwijzing naar een bepaald document bevatten. Je dient deze citerende documenten naar een relevant document in jouw selectie op te nemen, om dezelfde reden als waarom de geciteerde documenten zijn opgenomen.

Naast de relevantie van deze geciteerde en citerende documenten kunnen ze ook tips geven om nieuwe selecties te maken. Uit deze documenten kunnen onbekende relevante classificatiecodes of woorden worden afgeleid.

2.6 Wanneer klaar?

De vraag wanneer je moet stoppen met zoeken kan je beantwoorden als de volgende vraag beantwoord kan worden:

Heb je alle relevante documenten geselecteerd?

Deze vraag kan alleen met onzekerheid worden beantwoord. In de praktijk is het niet mogelijk om te controleren of je alle relevante documenten hebt geselecteerd (volledigheid = 100%). In plaats daarvan kunnen enkele indicaties worden gebruikt om de vraag te beantwoorden.

- Als je voldoende kennis hebt van de classificatie en technologie van een bepaald technisch vakgebied (vergelijkbaar met een examiner), kan je één of een beperkt aantal classificatiecodes selecteren met grote zekerheid dat de meeste relevante documenten worden geselecteerd. Het selecteren van een verzameling met deze classificatiecodes en het doorwerken van deze verzameling is dan voldoende voor het zoeken. Hierna kan de zoektocht worden gestopt. Deze methode is daarom het meest eenvoudig.
- De verzameling die je hebt geselecteerd, moet een aanzienlijk aantal relevante of nauw verwante documenten opleveren. Is dit niet het geval, dan heb je waarschijnlijk een verzameling geselecteerd zonder de relevante documenten (volledigheid is laag).

- Wanneer het verwerken van geciteerde en citerende documenten van de echt relevante documenten geen nieuwe relevante documenten of technische vakgebieden oplevert, dan is dit een indicatie dat de meeste relevante documenten zijn gevonden.

Als je tot de conclusie komt dat jouw zoekopdracht nog niet volledig genoeg is, moet er een nieuwe selectie worden gemaakt. Hiervoor kan de informatie uit de eerdere resultaten worden gebruikt. Er kunnen bijvoorbeeld nieuwe classificatiecodes van relevante documenten worden gebruikt.

Hoofdstuk 3

Classificatie

3.1 Inleiding

Het gebruik van classificaties is bij het zoeken vaak de meest bruikbare methode. De juiste selectie van classificatiecodes vereist kennis van zowel de classificatiesystemen als hun toepassing in een specifiek technisch vakgebied. Dit hoofdstuk geeft echter slechts een inleiding in de classificatiesystemen. De toepassing in een specifiek vakgebied vereist vooral ervaring met zoeken in het specifieke vakgebied.

3.2 Soorten van classificatie

De classificatiesystemen die voor octrooidocumenten worden gebruikt, hebben al een lange geschiedenis. Dit heeft geresulteerd in verschillende, diverse en vergelijkbare systemen. Hoewel de meeste classificatiesystemen onafhankelijk en verschillend van elkaar zijn begonnen, is er de trend om meer vergelijkbare of gelijkwaardige systemen te gebruiken. Samenwerkingen tussen de octrooibureaus is hiervan de aanleiding.

De meeste classificaties hebben een hiërarchische structuur, waarbij onderverdelingen steeds specifiekere details beschrijven. Een andere veelgebruikte structuur is het gebruik van een lijst met karakteriseringen van bepaalde aspecten, zoals deze bijvoorbeeld bij deep indexing wordt gebruikt. In de praktijk zijn de huidige classificatiesystemen gebaseerd op één van deze structuren, maar gebruiken ze tegelijkertijd ook de andere structuur.

De meest bekende classificatie is de International Patent Classification (IPC) die door alle leden van de WIPO wordt gebruikt. Dit is een hiërarchisch classificatiesysteem. Een voorbeeld van deep indexing is het classificatiesysteem F-term (File forming term) dat wordt gebruikt door het Japanse octrooibureau (JPO).

De classificatiesystemen die deze twee structuren gebruiken, worden in de volgende paragrafen verder beschreven.

3.2.1 IPC soorten

De IPC is het classificatiesysteem van de WIPO en is door haar leden overeengekomen. Elk octrooidocument dat door een lid wordt gepubliceerd, heeft minimaal één IPC-classificatiecode.

Verskillende classificatiesystemen zijn gebaseerd op de IPC. Dit betekent dat deze classificatiesystemen dezelfde classificatiecodes hebben als de IPC met verdere onderverdelingen. Deze verdere onderverdelingen zijn er om het zoeken efficiënter te maken.

Bekende classificatiesystemen gebaseerd op de IPC zijn:

- Cooperative Patent Classification (CPC) wordt gebruikt en onderhouden door het EPO en de USPTO en wordt ook gebruikt door octrooibureaus in andere landen.
- File Index (FI) gebruikt door de JPO.
- Deutsche Klassifikation (DEKLA) gebruikt door het Duitse octrooibureau (DPMA).

Als hiërarchisch classificatiesysteem vereisen de IPC-type classificatiesystemen ten minste één classificatiecode. Een bepaalde code moet zo gedetailleerd mogelijk zijn. Dit betekent dat aan een document een code moet worden toegekend die zich op het laagst mogelijke niveau bevindt. Er kunnen meerdere codes aan één document worden toegewezen, maar de regels voor toewijzing zijn niet volledig consistent tussen de verschillende classificatiesystemen.

De IPC bestaat uit acht secties:

- A. Human Necessities
- B. Performing Operations, Transporting
- C. Chemistry, Metallurgy
- D. Textiles, Paper
- E. Fixed Constructions
- F. Mechanical Engineering, Lighting, Heating, Weapons
- G. Physics
- H. Electricity

Deze acht secties zijn verder onderverdeeld in:

- Class

- Subclass
 - * Group
 - Main group or subgroups

Als voorbeeld een classificatiecode voor een wasknijper met scharnierende delen: D06F55/02. Deze code bestaat uit de onderdelen:

Section	Class	Subclass	Group	Subgroup
D	06	F	55	02

De hiërarchische structuur met alleen de tekst van de specifieke kopteksten van dit voorbeeld is:

Section D:
Textiles, Paper

Class 06:
TREATMENT OF TEXTILES OR THE LIKE;
LAUNDERING; FLEXIBLE MATERIALS NOT
OTHERWISE PROVIDED FOR

Subclass F:
LAUNDERING, DRYING, IRONING,
PRESSING OR FOLDING TEXTILE
ARTICLES

Group 55:
Clothes pegs

Subgroup 02:
with pivoted
clamping
members

Om een betere indruk te krijgen van de hiërarchische structuur, zie de volledige lijst van de classificatie van D06F in paragraaf C.2.

In paragraaf 3.3 wordt uitgelegd hoe de documenten worden geclassificeerd. Deze kennis van classificatie is nodig om de juiste classificatiecodes te kunnen selecteren.

3.2.2 Deep indexing

Bij een index classificatiesystemen worden meerdere aspecten die in een document zijn geopenbaard geclassificeerd. De aspecten die gebruikt worden zijn bijvoorbeeld kenmerken van een oplossing, toepassing en probleem. Eén document heeft dus meerdere indexcodes.

Het idee achter het indexeren is dat de inhoud van een document nauwkeurig kan worden gedefinieerd door de meerdere aspecten en daardoor ook gemakkelijk kan worden teruggevonden.

Hoewel de CPC een hiërarchisch classificatiesysteem is, gebaseerd op de IPC, hebben sommige delen van de CPC ook een aanvullend index classificatiesysteem. Hieruit blijkt dat een classificatiesysteem geen zuiver hiërarchisch systeem of zuiver indexsysteem hoeft te zijn. Zie als voorbeeld de aanvullende indexcodes (D06F2100 codereeks) in de D06F CPC in paragraaf C.2.

De JPO gebruikt zowel de FI, een hiërarchisch systeem, als het F-term-systeem, een zuiver indexsysteem. Het F-term-systeem is een deep indexing classificatiesysteem: meerdere aspecten worden volledig geclassificeerd.

Voor wasknijpers is de juiste F-term 4L027. Deze F-term is echter leeg en wordt niet gebruikt. In de FI bestaat een gedetailleerd schema voor wasknijpers, wat waarschijnlijk de reden is dat een F-term schema voor wasknijpers niet nodig is.

Voor het technisch aangrenzende veld van was- en droogmachines bestaat een gedetailleerd F-term schema. In paragraaf C.1 is dit F-term schema 3B168 te zien. In dit voorbeeld kunnen meerdere aspecten worden geclassificeerd:

- AA type of washer and dryer
- AB method of washer and dryer
- AC types of washer and dryer for businesses
- AD clothes
- AE description of drawings
- BA purpose
- CE rotor, churning wing
- FA detergent, solvent and medicine
- JM features of control
- WA instrument for wash and a wash auxiliary implement
- WB putting-in, taking-out and a carrying means of the washing

Een document met een uitvinding over een wasmachine krijgt vanuit meerdere aspecten één of meerdere classificatiecodes:

- kenmerken van het type wasmachine en het proces in de A-aspecten,
- doel of opgeloste probleem in het B-aspect,
- extra kenmerken in de C-, F-, J- en W-aspecten, indien van toepassing.

Door de verschillende relevante F-termen in een zoekopdracht te combineren, kan een verzameling documenten worden geselecteerd. Bij deze deep indexing is het dus noodzakelijk om alle aspecten te classificeren, zodat een goede volledigheid mogelijk is. De aspecten die in het classificatieschema worden gekozen, zullen een grote invloed hebben op de nauwkeurigheid en volledigheid. Ook dit schema is gebouwd voor examiners bij het octrooibureau en past daarom mogelijk niet goed bij een onderzoeksvraag.

Een voorbeeld van een commerciële indexclassificatie is het Derwent manual codes classificatiesysteem dat beschikbaar is in de Derwent World Patent Index (zie website: [clarivate](http://clarivate.com)). Dit is een classificatiesysteem in eigendom van Derwent voor het zoeken in hun patentdatabank.

3.3 Eigenschappen

3.3.1 Inleiding

Om de juiste classificatiecode te kunnen kiezen en te kunnen kiezen welk classificatiesysteem gebruikt moet worden, moeten de kenmerken van de systemen voldoende duidelijk zijn. Dit deel van dit document heeft tot doel de belangrijkste kenmerken duidelijk te maken.

In de beschikbare databanken zijn een beperkt aantal classificatiesystemen beschikbaar. De meest gebruikte classificatiesystemen zijn de IPC en de CPC. Daarom worden vooral deze twee hier vergeleken, met enkele kleine uitstapjes naar enkele andere systemen.

3.3.2 Omvang van de geclassificeerde documenten

Alle leden van de [WIPO](http://www.wipo.int) moeten hun octrooipublicaties classificeren met de IPC. Dit betekent dat vrijwel elke octrooipublicatie een IPC classificatiecode heeft.

Echter, de IPC werd in de jaren zeventig geïntroduceerd. Documenten gepubliceerd vóór deze introductie konden daarom niet met een IPC-code worden gepubliceerd. In sommige databanken, bijvoorbeeld Espacenet, is dit opgelost door oudere documenten een IPC-code toe te wijzen op basis van de beschikbare CPC-codes van het document.

De EOB en USPTO classificeren alleen de documenten uit de belangrijkste landen met CPC-codes. Documenten in een taal die geen officiële taal is bij deze octrooibureaus, worden tegenwoordig niet geclassificeerd door deze octrooibureaus. Documenten in de Japanse taal (zowel JP als WO) krijgen bijvoorbeeld geen CPC-codes. Hoewel niet ieder document is geclassificeerd met een CPC-code, is het aantal documenten met een CPC-code nog steeds enorm. Een snelle vergelijking op het moment van schrijven laat zien:

55 miljoen van de in totaal 158 miljoen documenten in de databanken van het EOB hebben een CPC-code toegewezen gekregen door het EOB of USPTO. In totaal hebben 70 miljoen documenten een CPC-code als de andere landen die CPC-codes toekennen, ook worden meegerekend. Vergelijk dit met de bijna 37 miljoen documenten die oorspronkelijk een IPC-code hebben gekregen.

Cijfers van andere classificatieschema's: bijna 16 miljoen documenten hebben een F-term, bijna 18 miljoen documenten hebben een FI-code. Voor een overzicht van de database bij het DPMA zie: [data coverage Depatisnet](#).

Verscheidene landen (bijvoorbeeld China en Korea) gebruiken nu ook CPC-codes bij hun gepubliceerde documenten. Daarom kan worden verwacht dat de omvang van de CPC zal toenemen.

3.3.3 Wat en hoe wordt geclassificeerd?

In zowel de IPC als de CPC wordt de uitvinding altijd geclassificeerd. Dit betekent dat een document minimaal 1 classificatiecode heeft. Het is ook mogelijk om aanvullende informatie te classificeren die nuttig is bij het zoeken. Zo zijn meerdere classificatiecodes op een document mogelijk.

Over het algemeen wordt de meest gedetailleerde (laagste in de hiërarchie) classificatiecode gebruikt. Een andere veelgebruikte regel is dat voor de classificatie de eerste correcte plaats in het classificatieschema wordt gebruikt. Maar er zijn veel uitzonderingen. Zie voor alle uitzonderingen de toelichting in het classificatieschema en de CPC-definities.

Een zeer gedetailleerde handleiding over het gebruik van de IPC kan je vinden in de [Guide to the International Patent Classification \(2024\)](#). Het meeste van wat hierin geschreven staat, is ook van toepassing op de CPC. Dit is geen document dat makkelijk te lezen is. Houdt hiermee rekening voordat je het probeert te lezen.

In deze handleiding worden de algemene regels beschreven. Hoe in een specifiek technisch gebied met de CPC wordt geclassificeerd, kan anders zijn dan hoe algemeen wordt geclassificeerd. De informatie hoe in een specifiek

technisch vakgebied wordt geclassificeerd, kan worden gehaald uit de ‘notes’ in het classificatieschema en uit de definities. Zie bijvoorbeeld de definities van D06F in paragraaf C.3.

Vaak wordt de betekenis van een group of subgroup nader toegelicht in de definities. Indien bijvoorbeeld het verschil tussen wasknijpers (D06F55/00) en wasknijpers met pivoted clamping members (D06F55/02) niet duidelijk is, verduidelijken de afbeeldingen in de definities onder de kopteksten dit (zie pagina 121 van de definities in paragraaf C.3).

De CPC heeft meer subgroups (zie bijvoorbeeld de delen tussen accolades in paragraaf C.2) en daardoor kan de omvang van een selectie kleiner zijn vergeleken met het gebruik van IPC-codes. Normaal gesproken resulteert dit in een hogere nauwkeurigheid.

Naast meer subgroups heeft de CPC ook extra additional codes (de 2000-reeks in subgroups). Deze additional codes worden op verschillende manieren gebruikt, zoals als index of als verdere onderverdelingen. Een waarschuwing hierover: additional codes zijn vaak niet verplicht en dus mogelijk niet volledig. Controleer wat er in de opmerkingen en definities staat.

3.3.4 Wie classificeert en wanneer?

De IPC-codes worden toegekend door de examiner werkzaam bij het betreffende octrooibureau, aan een document dat wordt gepubliceerd. Hoewel er wordt gestreefd naar een consistente classificatie, kan worden verwacht dat er enige variatie bestaat in de codes die door de examiners van de verschillende octrooibureaus worden gegeven. Dit kun je zien door bijvoorbeeld de IPC-codes te vergelijken met CPC-codes op een document of door de IPC-codes op de documenten van de verschillende landen in een octrooifamilie te vergelijken.

De CPC-codes worden toegekend door examiners bij het EOB of de USPTO. Deze examiners werken in een gespecialiseerd technisch vakgebied waar een beperkt aantal classifiers actief is. Dit resulteert in een betere eenduidigheid dan bij de IPC-codes.

De IPC-codes worden alleen toegekend wanneer het document wordt gepubliceerd en worden later niet bijgewerkt.

De CPC-codes die aan documenten zijn toegewezen, worden bijgewerkt wanneer er een fout wordt ontdekt of wanneer het classificatieschema wordt gewijzigd. De aan documenten toegekende codes zijn daarom normaal gesproken altijd actueel, waarbij de uitzonderingen beschreven zijn in het classificatieschema.

Voor de Dekla en de FI en F-term is de situatie vergelijkbaar met de CPC.

3.3.5 Een paar tips

Ervaring in het zoeken zal helpen om de classificaties correct te gebruiken. Wanhoop dus niet als de eerste keer niet goed gaat.

Controleer, door naar de geselecteerde documenten te kijken, of je de classificatie goed hebt begrepen. Verspil geen tijd met het doorzoeken van een verkeerde verzameling!

Als je niet kan vinden wat je zoekt, heb je een verkeerde selectie gemaakt. Ja, er bestaat voor alles een eerdere stand van de *techniek* (tenzij je een ontdekking hebt gedaan die de wereld verandert).

Bijlage A

Woordenlijst

B

BOIP

Benelux-Bureau voor de Intellectuele Eigendom. Het Benelux-bureau voor de Intellectuele Eigendom (in het Engels BOIP: Benelux Office for Intellectual Property, in het Frans: Office Benelux de la Propriété intellectuelle) registreert merken en modellen voor de Benelux. 29

C

CPC

De Cooperative Patent Classification is een classificatiesysteem dat het EPO en USPTO hebben opgesteld en dat meerdere landen inmiddels gebruiken. De CPC is gebaseerd op de IPC, maar heeft een verdere onderverdeling. 13, 18

D

DEKLA

Deutsche Klassifikation. De Duitse classificatie is gebaseerd op de IPC. Deze wordt gebruikt en onderhouden door het DPMA. 18

DPMA

Deutsches Patent- und Markenamt. Het Duitse octrooibureau is belast met het verlenen van octrooien en merken voor Duitsland. 18, 22, 29

E

EOB

Europees Octrooibureau. Het Europees Octrooibureau (in het Engels EPO: European Patent Office) is belast met het verlenen van de Europese octrooien volgens het Europees Octrooiverdrag (EOV). De hoofdvestiging in München met nevenvestigingen in Rijswijk, Berlijn en Wenen. 18, 22, 29

EOV

Europees Octrooiverdrag. In het Engels: European Patent Convention (EPC), Duits: Europäisches Patentübereinkommen (EPÜ), Frans: Convention sur le brevet européen (CBE). Een multilateraal verdrag dat het systeem definieert voor het verkrijgen van een Europees octrooi. Naast de artikelen en regels voor het verkrijgen van een octrooi, is het EOV ook de basis voor de Europese Octrooi Organisatie. Het Europees Octrooibureau (EOB) is belast met het verlenen van de Europese octrooien. 26

EUIPO

European Union Intellectual Property Office. Het European Union Intellectual Property Office registreert merken en modellen voor de gehele EU. Ook wel uniemerken en uniemodellen genoemd. 29

examiner

In het Nederlands onderzoeker of technisch onderzoeker genoemd. Deze persoon werkt bij een octrooibureau en heeft als hoofdtaak een octrooiaanvraag inhoudelijk te behandelen. Dit is vooral het search report opstellen en het octrooi verlenen. 9, 13

F

F-term

File forming term is een classificatiesysteem gebaseerd op indexerings. Het wordt in Japan gebruikt. 17, 20

FI

File Index is een classificatiesysteem gebaseerd op de IPC. Deze wordt gebruikt in Japan. 18, 20

full-text

Een full-text databank bevat de volledige tekst van de documenten, niet alleen bibliografische gegevens of samenvattingen. 12

I

IPC

International Patent Classification is een classificatiesysteem dat alle landen gebruiken. Iedere publicatie van een octrooiaanvraag of een octrooi krijgt een IPC-classificatiecode. 13, 17, 18

J

JPO

Japan Patent Office. Het Japanse octrooibureau is belast met het verlenen van octrooien en merken voor Japan. 17, 18, 20, 29

O

Octrooicentrum Nederland

Octrooicentrum Nederland is de octrooiverlener voor Nederland. Het Octrooicentrum is een onderdeel van de Rijksdienst voor Ondernemend Nederland (RVO) en valt onder het Nederlandse ministerie van Economische Zaken en Klimaat. Het Octrooicentrum geeft ook voorlichting over het octrooisysteem en behartigt de belangen van Nederland in Europese en mondiale organisaties voor intellectueel eigendom. 29

R

rapport van het onderzoek naar de stand van de techniek

Dit rapport wordt opgesteld door het octrooibureau waar de octrooiaanvraag is ingediend. Bij de toetsing in de octrooiprocedure worden de nieuwheid en de inventiviteit beoordeeld aan de hand van de documenten in dit rapport. Het bevat daarom de meest relevante documenten voor de toetsing. 27

S

search report

In het Nederlands: rapport van het onderzoek naar de stand van de techniek. 13, 15

stand van de techniek

De stand van de techniek wordt gevormd door alles wat voor de dag van indiening van de octrooiaanvraag openbaar toegankelijk is gemaakt door een schriftelijke of mondelinge beschrijving, door toepassing of op een andere manier. 24

U

USPTO

United States Patent and Trademark Office. Het United States Patent and Trademark Office is belast met het verlenen van octrooien en merken voor de Verenigde Staten. 18, 22, 29

W

WIPO

World Intellectual Property Organisation. Wereldorganisatie voor intellectuele eigendom. WIPO is een gespecialiseerde organisatie van de Verenigde Naties. WIPO bestaat uit 193 lidstaten, en beheert 26 internationale verdragen. Het hoofdkwartier is in Genève. 17, 21, 29

Bijlage B

Links

B.1 Nationale en internationale IE-bureaus

Octrooicentrum Nederland:

<https://www.rvo.nl/onderwerpen/innovatief-ondernemen/octrooien-ofwel-patenten>

Benelux-Bureau voor de Intellectuele Eigendom (BOIP):

<https://www.boip.int/>

Europees Octrooibureau (EOB):

<https://www.epo.org/>

European Union Intellectual Property Office (EUIPO):

<https://www.euipo.europa.eu/>

World Intellectual Property Organisation (WIPO):

<https://www.wipo.int/>

Duits octrooibureau (DPMA):

<https://www.dpma.de/>

Octrooibureau van de Verenigde Staten (USPTO):

<https://www.uspto.gov/>

Japanse octrooibureau (JPO):

<https://www.jpo.go.jp/e/>

B.2 IE-databanken

Espacenet:

<https://worldwide.espacenet.com/patent/>

Espacenet pocket guide:

<https://www.epo.org/espacenet-pocket-guide>

Handleiding Espacenet:

https://www.rvo.nl/sites/default/files/2021/03/Handleiding%20Espacenet_februari2021.pdf

European Patent Register:

<https://register.epo.org/>

European Patent Bulletin:

<https://data.epo.org/expert-services/index.html>

Google patents:

<https://patents.google.com/>

Depatisnet (DPMA):

<https://depatisnet.dpma.de/DepatisNet/depatisnet>

Patentscope:

<https://patentscope.wipo.int/>

The lens:

<https://www.lens.org/>

Trademark view en Design view:

<https://www.tmdn.org/>

EUIPO register (eSearch plus):

<https://euipo.europa.eu/eSearch/>

BBIE merkenregister:

<https://www.boip.int/nl/merkenregister>

BBIE modellenregister:

<https://www.boip.int/nl/modellenregister>

Octrooiregister Nederland:

<https://mijnocrooi.rvo.nl/fo-eregister-view/>

Duits octrooiregister (DPMA register):

<https://register.dpma.de/DPMAregister/pat/basis>

UK Intellectual Property Office, online patent information and document inspection service:

<https://www.ipo.gov.uk/p-ipsum.htm>

Japan platform for patent information:

<https://www.j-platpat.inpit.go.jp/>

B.3 Octrooiclassificatieschema's

CPC classificatieschema bij de USPTO (US patent and trademark office):

<https://www.uspto.gov/web/patents/classification/cpc/html/cpc.html>

CPC classificatieschema in tabelvorm om schema en definities te downloaden:

<https://www.cooperativepatentclassification.org/cpcSchemeAndDefinitions/table>

Bijlage C

Documenten

C.1 F-term 3B168

Theme code	3B168
Descriptions	ACCESSORY OF WASHING/DRYING MACHINE, COMMERCIAL WASHING/DRYING MACHINE, OTHER WASHING/DRYING MACHINE
FI coverage	D06F1/00-19/00;27/00-31/00;35/00-35/00@Z;41/00- 51/02;58/00-58/00@Z;58/10-58/18@Z; 59/00-60/00

AA00 TYPE OF WASHER AND DRYER

- AA01 . Drum typed washer
 - AA02 . . With drying function
 - AA04 . . Tilted rotation drum
 - AA05 . . Horizontal rotation drum
 - * AA06 . . . Top-loading
- AA11 . Vertical washer
 - AA12 . . With drying function
 - AA13 . . Dryer separated from the washer (also classified in AA24)
 - AA15 . . With blade
 - AA16 . . Partial washing
- AA21 . Single-tub with single function
 - AA22 . . Washer (including washer only for washing or rinse)
 - AA23 . . Dewatering machine
 - AA24 . . Dryer

AA00 TYPE OF WASHER AND DRYER

- AA31 . Multi-tub (drum also means tub, not including impounding tub)
 - AA32 . . Double-tub
 - * AA33 . . . Combination of washing tub and dewatering tub
 - * AA34 . . . Combination of washing and dewatering tub, drying tub
 - AA38 . Combination of functions and productions other than washer and dryer
 - AA40 . Others
-

AB00 METHOD OF WASHER AND DRYER

- AB01 . Washing and rinsing method
 - AB02 . . Bubble cleaning
 - AB03 . . Air bubble
 - AB04 . . Super sound
 - AB05 . . Water-jet
 - AB06 . . Shower
- AB11 . Dewatering method (excluding centrifugal dewatering)
 - AB12 . . Press, squeezing roller
- AB21 . Drying method
 - AB22 . . Combined use of heating and dehumidification
 - * AB23 . . . Heat pump
 - AB24 . . Only using heat
 - AB25 . . Only using dehumidification
 - AB27 . . Only using blowing
 - AB29 . . Drying with exhausting (exhausting to the external)
 - AB30 . . Circulation drying, interior air recirculation
- AB31 . Dehumidification method (using dehumidification agents etc.)
 - AB32 . . Use of cooling medium
 - AB33 . . Water cooling
 - AB34 . . Air cooling

AB00	METHOD OF WASHER AND DRYER
	• AB41 . Additional function – AB42 . . Sterilization, antibacterial, odor eliminating * AB43 . . . Dedicated devices • AB50 . Others
AC00	TYPES OF WASHER AND DRYER (FOR BUSINESSES ETC.)
	• AC01 . Dry cleaning – AC02 . . Solvent circulation, collection – AC03 . . Stain removal • AC11 . Drying chamber – AC12 . . Bathroom – AC13 . . Room, closet – AC14 . . Drawer typed closet, large size cabinet – AC15 . . Small size cabinet – AC16 . . Folding type • AC21 . Coin laundry • AC22 . Cleaning plant • AC23 . Continuous and multi-step drum • AC24 . Tunnel drum • AC25 . Movable type (such as laundry vehicle etc.) • AC26 . Portable, floor types (such as portable washer etc.) • AC27 . Tub changing its position • AC30 . Others
AD00	CLOTHES (WASHED CLOTHES AND DRIED CLOTHES)
	• AD01 . Type of clothes in the term of form – AD02 . . Japanese-style bedding – AD03 . . Shoes – AD04 . . Socks • AD06 . Size and quantity (largeness and thickness etc.) • AD07 . Type of clothes in the term of quality (such as fragile materials etc.) • AD08 . States of the clothes (tough stains etc.) • AD10 . Others

AE00	DESCRIPTION OF THE DRAWING
	• AE01 . Drawing of the component (subdivisional places under CE) • AE02 . Drawing of partial enlargement (subdivisional places under CE) • AE03 . Panel surface, displaying surface • AE04 . Flow chart • AE05 . Block line • AE06 . Diagram of electrical circuit, wire connection • AE07 . Diagram of fluidic circuit, wire connection • AE11 . Graphs and sheet indicating characteristic and advantage – AE12 . . Time chart etc. – AE13 . . Angle and revolution – AE14 . . Electric and magnetic • AE20 . Others

BA00	PURPOSE
	• BA01 . Prevention and measurement against accidents – BA02 . . Bodily injury * BA03 . . . Injury · BA04 Burn injury * BA05 . . . Electrification · BA06 Static electricity – BA08 . . Damage of clothes * BA09 . . . Tangle, twist, shrinkage, crease of clothes * BA10 . . . Re-contamination, color transfer, color change from other clothes or washing agents, contamination of original sources – BA12 . . Mechanical or electrical damages and trouble * BA13 . . . Overload, overheat, burning damage * BA14 . . . Electric leakage, short-circuit, loose connection * BA15 . . . Unbalance * BA16 . . . Incursion of foreign substance – BA18 . . Power failure – BA19 . . Freezing

BA00	PURPOSE
------	---------

- BA22 . . Environment and sanitation
 - BA23 . . . Noise (noise reduction, noise filter, noise prevention etc.)
 - BA24 . . . Vibration
 - BA25 . . . Odor, vapor of solvent
 - BA26 . . . Contamination of drainage water and waste fluid
- BA28 . . Measurement against the incorrect operation and incorrect move
- BA29 . . Theft, unauthorized use
- BA32 . . Trouble of water and liquid
 - BA33 . . . Water tight (drip-proof, water-proof etc.)
 - BA34 . . . Abnormal states such as stoppage, water supply and drainage, overflow water
 - BA35 . . . Flying water
- BA37 . . Trouble of air
 - BA38 . . . Abnormal states such as stoppage, water supply and supply and drainage systems
- BA40 . . Improvement and measurement of alert
- BA41 . Improvement of efficiency and quality
 - BA42 . . Save of water and solvent
 - BA43 . . Reduction of energy consumption, and power transmission loss
 - * BA44 . . . Heat recovery and reuse of wasted heat
 - BA45 . . Brief of required hours of processes
 - BA47 . . Automation and energy saving
 - BA48 . . Improvement of operating performance
 - BA49 . . Improvement of visibility
 - BA50 . . Quality of appearance, design
 - BA52 . . Improvement of washing performance
 - BA53 . . Improvement of rinsing performance
 - BA54 . . Improvement of dewatering performance
 - BA55 . . Improvement of washing performance
 - BA56 . . Improvement of dust removing performance
 - BA57 . . Reduction of foaming, prevention of effect by foaming
 - BA58 . . Facilitation of foaming
 - BA59 . . Adaptation to the user's preferences

BA00	PURPOSE
	• BA62 . . Improvement of quality of finished clothes – BA63 . . . Aroma – BA64 . . . Mangle – BA65 . . . Measurement against allergy • BA69 . . Improvement and measurement of alarm – BA70 . . . Time alert • BA72 . . Maintenance – BA73 . . . Automatic cleaning of components (including operation by users) – BA74 Tub cleaning – BA75 . . . Drying of component and tub – BA76 . . . Self-diagnosis • BA78 . . Sterilization, antibacterial, odor eliminating • BA82 . . Improvement of reliability, accuracy, durability • BA83 . . Improvement of material, reduction of components, simplification of construction • BA84 . . Downsizing, space saving, arrangement of components inside the machines • BA85 . . Processing and molding methods • BA86 . . Improvement of assembly, inspection, diagnosis of failure, disassembly • BA87 . . Improvement of carriage and packaging • BA88 . . Installing and mounting • BA89 . . Storage • BA91 . Cooperation with network • BA92 . Cooperation with the other apparatuses • BA99 . Others

CE00	ROTOR, CHURNING WING
	• CE01 . Structure and form – CE02 . . Pump out vane • CE03 . Spiral – CE04 . . A wing hole vacancy, a hollow with a cleaning window – CE05 . . Dimensional ratio, dimension, size and curvature

CE00	ROTOR, CHURNING WING
	• CE11 . Attachment of wings to the axis • CE12 . Component detached and attached on wings • CE13 . Attached in addition to the central bottom of a tub • CE14 . Multiple wings (the subject matter which rotates independently) • CE20 . Others
FA00	DETERGENT, SOLVENT AND MEDICINE
	• FA01 . Water-soluble detergent • FA02 . Organic solvent and inorganic solvent • FA03 . Mixture and switching • FA04 . Strengthening of detergent and solvent and additive • FA05 . Bleach • FA06 . Finishing agent, softening agent, spice, etc. • FA07 . Drying material • FA11 . Shape and form – FA12 . . Liquid – FA13 . . Solid * FA14 . . . Powder – FA16 . . Package type – FA18 . . Gas * FA19 . . . Steam • FA20 . Others
JM00	FEATURES OF CONTROL
	• JM01 . Controlled system step, a rotation tub, the action of the drum, and an input • JM02 . Detection objects and a detection means • JM03 . Control • JM04 . Cooperation with the other apparatuses • JM10 . Others

WA00	INSTRUMENT FOR WASH AND A WASH AUXILIARY IMPLEMENT
	• WA01 . Wash container, a laundry basket, a bag • WA02 . Restroom tools • WA03 . Wash net, a wash sheet, a drying bag • WA04 . Waste picking net • WA05 . Roller for dewatering and a roller for extending • WA06 . Wash ball and a corded object • WA07 . Measuring cup • WA08 . Hanger and a drying place – WA09 . . Doll • WA11 . Using form – WA12 . . Used in a tub * WA13 . . . Floating in a tub * WA14 . . . Used by attaching to wings – WA16 . . Used by attaching to places other than the tub – WA18 . . Used independently • WA20 . Others
WB00	PUTTING-IN, TAKING-OUT AND A CARRYING MEANS OF THE WASHING
	• WB01 . Tub changing its position • WB02 . Chute • WB03 . Piston • WB04 . Jet water • WB05 . Dependent on a hand tool • WB11 . Conveyor system – WB12 . . Conveyance screw system – WB13 . . Conveyor belt – WB14 . . Hanging conveyor (hanger conveyor) – WB15 . . Roller conveyer • WB20 . Others

C.2 CPC classificatieschema D06F

CPC COOPERATIVE PATENT CLASSIFICATION

D TEXTILES; PAPER

TEXTILES OR FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

D06 TREATMENT OF TEXTILES OR THE LIKE; LAUNDERING; FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

D06F LAUNDERING, DRYING, IRONING, PRESSING OR FOLDING TEXTILE ARTICLES

NOTES

1. This subclass covers:
 - domestic or laundry dry-cleaning apparatus using volatile solvents;
 - domestic, laundry, or tailors' ironing or other hot-pressing of clothes, linen, or other textile articles.
2. This subclass does not cover:
 - apparatus for wringing, washing, dry-cleaning, ironing, or other hot-pressing of textiles in manufacturing operations, which is covered by subclasses [D06B](#), [D06C](#).
 - treatment of textiles by purely chemical means, which is covered by subclasses [D06L](#), [D06M](#).

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Washing; Rinsing; Dry-cleaning

- 1/00 Washing receptacles (of washing machines [D06F 37/00](#), [D06F 39/00](#))**
- 1/02 . Wash-tubs; Supports therefor
 - 1/04 . . the tub walls or bottom having corrugations
 - 1/06 . Wash-boiler receptacles
 - 1/08 . . with special means for water circulation by heat, e.g. fountain-washers
 - 1/10 . Covers; Handles
 - 1/12 . Racks or other rigid open containers of skeleton or like apertured construction supporting clothes in washing receptacles
- 3/00 Hand rubbing apparatus ([corrugated tub-walls D06F 1/04](#))**
- 3/02 . Rubbing boards
 - 3/04 . Hand rubbers, e.g. gloves with corrugated surfaces
- 5/00 Hand implements for washing purposes, e.g. sticks ([hand rubbing appliances D06F 3/00](#))**
- 5/005 . {Receptacles for washing articles, e.g. hosiery, by shaking or squeezing}
 - 5/02 . Plungers, dollies, pounders, squeezers, or the like
 - 5/04 . . adapted for removable mounting on receptacles such as wash-tubs
 - 5/06 . Grippers
- 7/00 Washing devices adapted to be used independently of any particular receptacle, e.g. for removable mounting on wash-tubs, bath-tubs, or the like**
- 7/02 . of the rotary-impeller type
 - 7/04 . of the vibrator type
 - 7/06 . agitating the washing liquid by air
- 9/00 Brushing-type washing machines**

- 11/00 Washing machines using rollers, e.g. of the mangle type**
- 13/00 Washing machines having receptacles, stationary for washing purposes, with agitators therein contacting the articles being washed ([plungers or the like adapted for removable mounting on receptacles D06F 5/04](#))**
- 13/02 . wherein the agitator has an oscillatory rotary motion only
 - 13/04 . wherein the agitator has an axial motion only
 - 13/06 . wherein the agitator has both rotary, e.g. oscillating rotary, motion and axial motion
 - 13/08 . wherein the agitator has a gyratory or orbital motion
- 15/00 Washing machines having beating, rubbing or squeezing means in receptacles stationary for washing purposes ([plungers or the like adapted for removable mounting on receptacles D06F 5/04](#); [mangle-type washing machines D06F 11/00](#))**
- 15/02 . wherein the articles being washed are squeezed by a flexible diaphragm or bag
- 17/00 Washing machines having receptacles, stationary for washing purposes, wherein the washing action is effected solely by circulation or agitation of the washing liquid**
- 17/02 . by pumps ([D06F 17/04 takes precedence](#))
 - 17/04 . solely by water jets
 - 17/06 . by rotary impellers
 - 17/08 . . Driving arrangements for the impeller
 - 17/10 . . Impellers
 - 17/12 . solely by gases, e.g. air or steam, introduced into the washing liquid

18/00	Washing machines having receptacles, stationary for washing purposes, and having further drying means (control of washing or of washing and drying D06F 33/00 , D06F 34/00 ; domestic laundry dryers D06F 58/00)	33/00	Control of operations performed in washing machines or washer-dryers (D06F 31/00 takes precedence; details of control systems therefor D06F 34/00 ; control of operations performed in domestic laundry dryers D06F 58/32)
19/00	Washing machines using vibrations for washing purposes		NOTE
21/00	Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement (with receptacles serving both for washing and centrifugally separating water from the laundry D06F 23/00 , D06F 25/00 ; programme control aspects D06F 33/00)		In this group, it is mandatory to add the indexing codes of groups D06F 2101/00 - D06F 2105/00 .
21/02	. about a horizontal axis	33/04	. non-electrically
21/04	. . within an enclosing receptacle	33/06	. . substantially mechanically
21/06	. about a vertical axis	33/08	. . substantially hydraulically
21/08	. . within an enclosing receptacle	33/10	. . substantially pneumatically
21/10	. about an inclined axis	33/30	. Control of washing machines characterised by the purpose or target of the control (controlling processes of washer-dryers D06F 33/50)
21/12	. the receptacle having a wobbling motion	33/32	. . Control of operational steps, e.g. optimisation or improvement of operational steps depending on the condition of the laundry
21/14	. with rubbing or beating means not secured to, or forming part of, the receptacle	33/34	. . . of water filling
23/00	Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and for centrifugally separating water from the laundry (with further drying means D06F 25/00 ; programme control aspects D06F 33/00)	33/36	. . . of washing
23/02	. and rotating or oscillating about a horizontal axis	33/37	. . . of metering of detergents or additives
23/025	. . {with a rotatable imperforate tub}	33/38	. . . of rinsing
23/04	. and rotating or oscillating about a vertical axis	33/40	. . . of centrifugal separation of water from the laundry
23/06	. and rotating or oscillating about an inclined axis	33/42	. . . of draining
23/065	. . {with a rotatable imperforate tub}	33/43	. . Control of cleaning or disinfection of washing machine parts, e.g. of tubs
25/00	Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and for centrifugally separating water from the laundry and having further drying means, e.g. using hot air (control of washing or of washing and drying D06F 33/00 , D06F 34/00 ; domestic laundry dryers D06F 58/00)	33/44	. . Control of the operating time, e.g. reduction of overall operating time
27/00	Washing machines with receptacles moving bodily, e.g. reciprocating, swinging	33/46	. . Control of the energy or water consumption
29/00	Combinations of a washing machine with other separate apparatus in a common frame or the like, e.g. with rinsing apparatus	33/47	. . Responding to irregular working conditions, e.g. malfunctioning of pumps (safety arrangements D06F 37/42)
29/005	. {the other separate apparatus being a drying appliance}	33/48	. . Preventing or reducing imbalance or noise
29/02	. with liquid-extracting apparatus (with roller wringer D06F 45/12)	33/50	. Control of washer-dryers characterised by the purpose or target of the control
31/00	Washing installations comprising an assembly of several washing machines or washing units, e.g. continuous flow assemblies	33/52	. . Control of the operational steps, e.g. optimisation or improvement of operational steps depending on the condition of the laundry
31/005	. {consisting of one or more rotating drums through which the laundry passes in a continuous flow}	33/54	. . . of water filling
		33/56	. . . of washing
		33/57	. . . of metering of detergents or additives
		33/58	. . . of rinsing
		33/60	. . . of centrifugal separation of water from the laundry
		33/62	. . . of draining
		33/63	. . . of air flow, e.g. blowing air during the washing process to prevent entanglement of the laundry
		33/64	 Unheated air
		33/65	. . . of conditioning or finishing phases, e.g. for smoothing or removing creases
		33/68	. . . of the sequence of washing and drying operations
		33/69	. . Control of cleaning or disinfection of washer-dryer parts, e.g. of tubs
		33/70	. . Control of the operating time, e.g. reduction of overall operating time
		33/72	. . Control of the energy or water consumption
		33/74	. . Responding to irregular working conditions, e.g. malfunctioning of pumps (safety arrangements for washing machines D06F 37/42)
		33/76	. . Preventing or reducing imbalance or noise

34/00 Details of control systems for washing machines, washer-dryers or laundry dryers**NOTE**

In this group, it is mandatory to add the indexing codes of groups [D06F 2101/00](#) - [D06F 2105/00](#).

- 34/04 . Signal transfer or data transmission arrangements
- 34/05 . . for wireless communication between components, e.g. for remote monitoring or control
- 34/06 . Timing arrangements
- 34/08 . Control circuits or arrangements thereof
- 34/10 . Power supply arrangements, e.g. stand-by circuits
- 34/14 . Arrangements for detecting or measuring specific parameters
 - 34/16 . . Imbalance
 - 34/18 . . Condition of the laundry, e.g. nature or weight
 - 34/20 . . Parameters relating to constructional components, e.g. door sensors
 - 34/22 . . Condition of the washing liquid, e.g. turbidity
 - 34/24 . . . Liquid temperature
 - 34/26 . . Condition of the drying air, e.g. air humidity or temperature
 - 34/28 . Arrangements for program selection, e.g. control panels therefor; Arrangements for indicating program parameters, e.g. the selected program or its progress
 - 34/30 . . characterised by mechanical features, e.g. buttons or rotary dials
 - 34/32 . . characterised by graphical features, e.g. touchscreens
 - 34/34 . . characterised by mounting or attachment features, e.g. detachable control panels or detachable display panels

35/00 Washing machines, apparatus, or methods not otherwise provided for

- 35/001 . {using ozone}
- 35/002 . {using bubbles}
- 35/003 . {using electrochemical cells}
- 35/004 . {using chlorine generators}
- 35/005 . {Methods for washing, rinsing or spin-drying}
- 35/006 . . {for washing or rinsing only}
- 35/007 . . {for spin-drying only}
- 35/008 . . {for disinfecting the tub or the drum}

37/00 Details specific to washing machines covered by groups [D06F 21/00](#) - [D06F 25/00](#)

- 37/02 . Rotary receptacles, e.g. drums
- 37/04 . . adapted for rotation or oscillation about a horizontal or inclined axis
- 37/06 . . . Ribs, lifters, or rubbing means forming part of the receptacle
- 37/065 {ribs or lifters having means for circulating the washing liquid}
- 37/08 . . . Partitions
- 37/10 . . . Doors; Securing means therefor
- 37/12 . . adapted for rotation or oscillation about a vertical axis
- 37/14 . . . Ribs or rubbing means forming part of the receptacle
- 37/145 {ribs or lifters having means for circulating the washing liquid}
- 37/16 . . . Partitions
- 37/18 . . . Doors or covers; Securing means therefor

- 37/20 . Mountings, e.g. resilient mountings, for the rotary receptacle, motor, tub or casing; Preventing or damping vibrations
- 37/206 . . {Mounting of motor}
- 37/22 . . in machines with a receptacle rotating or oscillating about a horizontal axis
- 37/225 . . . {Damping vibrations by displacing, supplying or ejecting a material, e.g. liquid, into or from counterbalancing pockets}
- 37/24 . . in machines with a receptacle rotating or oscillating about a vertical axis
- 37/245 . . . {Damping vibrations by displacing, supplying or ejecting a material, e.g. liquid, into or from counterbalancing pockets}
- 37/26 . Casings; Tubs
- 37/261 . . {Tubs made by a specially selected manufacturing process or characterised by their assembly from elements}
- 37/262 . . . {made of plastic material, e.g. by injection moulding}
- 37/263 . . . {assembled from at least two elements connected to each other; Connecting or sealing means therefor}
- 37/264 . . {Tubs provided with reinforcing structures, e.g. ribs, inserts, braces}
- 37/265 . . {Counterweights mounted to the tub; Mountings therefor}
- 37/266 . . {Gaskets mounted between tub and casing around the loading opening}
- 37/267 . . {Tubs specially adapted for mounting thereto components or devices not provided for in preceding subgroups ([D06F 37/206](#) takes precedence)}
- 37/268 . . . {for suspension devices}
- 37/269 . . . {for the bearing of the rotary receptacle}
- 37/28 . . Doors; Security means therefor
- 37/30 . Driving arrangements ([control circuits or arrangements \[D06F 34/08\]\(#\)](#))
- 37/302 . . {Automatic drum positioning}
- 37/304 . . {Arrangements or adaptations of electric motors}
- 37/308 . . {Hydraulic or pneumatic speed control; Arrangements or adaptations of hydraulic or pneumatic motors}
- 37/32 . . for rotating the receptacle at one speed only ([D06F 37/304](#), [D06F 37/308](#) take precedence)
- 37/34 . . . in opposite directions, e.g. oscillating
- 37/36 . . for rotating the receptacle at more than one speed ([D06F 37/304](#), [D06F 37/308](#) take precedence)
- 37/38 . . . in opposite directions
- 37/40 . . for driving the receptacle and an agitator or impeller, e.g. alternatively ([D06F 37/304](#), [D06F 37/308](#) take precedence)
- 37/42 . Safety arrangements, e.g. for stopping rotation of the receptacle upon opening of the casing door

39/00 Details of washing machines not specific to a single type of machines covered by groups [D06F 9/00](#) - [D06F 27/00](#) ([control of washing machines \[D06F 33/00\]\(#\), \[D06F 34/00\]\(#\)](#))

- 39/001 . {Arrangements for transporting, moving, or setting washing machines; Protective arrangements for use during transport ([transport in general \[B65\]\(#\)](#))}

- 39/006 . {Recovery arrangements, e.g. for the recovery of energy or water}
(Frozen)

WARNING

Group [D06F 39/006](#) is no longer used for the classification of documents as of January 1, 2024.

The content of this group is being reclassified into groups [D06F 39/20](#) and [D06F 39/30](#).

Groups [D06F 39/006](#), [D06F 39/20](#) and [D06F 39/30](#) should be considered in order to perform a complete search.

- 39/007 . {Arrangements of water softeners}
39/02 . Devices for adding soap or other washing agents
39/022 . . {in a liquid state ([D06F 39/024](#) takes precedence)}
39/024 . . {mounted on the agitator or the rotating drum; Free body dispensers}
39/026 . . {the powder or tablets being added directly, e.g. without the need of a flushing liquid}
39/028 . . {Arrangements for selectively supplying water to detergent compartments}
39/04 . Heating arrangements
39/06 . Arrangements for preventing or destroying scum
39/08 . Liquid supply or discharge arrangements ([supply of soap or other washing agents D06F 39/02](#))
39/081 . . {Safety arrangements for preventing water damage}
39/082 . . . {detecting faulty draining operations, e.g. filter blockage, faulty pump}
39/083 . . {Liquid discharge or recirculation arrangements}
39/085 . . . {Arrangements or adaptations of pumps}
39/086 . . . {Arrangements for avoiding detergent wastage in the discharge conduit}
39/087 . . {Water level measuring or regulating devices}
39/088 . . {Liquid supply arrangements}
39/10 . Filtering arrangements
39/12 . Casings; Tubs
39/125 . . {Supporting arrangements for the casing, e.g. rollers or legs}
39/14 . . Doors or covers; Securing means therefor
39/20 . Arrangements for water recovery

WARNING

Group [D06F 39/20](#) is incomplete pending reclassification of documents from group [D06F 39/006](#).

Groups [D06F 39/006](#) and [D06F 39/20](#) should be considered in order to perform a complete search.

- 39/30 . Arrangements for energy recovery

WARNING

Group [D06F 39/30](#) is incomplete pending reclassification of documents from group [D06F 39/006](#).

Groups [D06F 39/006](#) and [D06F 39/30](#) should be considered in order to perform a complete search.

- 39/40 . Steam generating arrangements

41/00 Rinsing apparatus**43/00 Dry-cleaning apparatus (or methods) using volatile solvents ([D06F 9/00](#) - [D06F 41/00](#) take precedence)**

- 43/002 . {Spotting apparatus}
43/005 . {Solvent condition control devices, e.g. humidity content}
43/007 . {Dry cleaning methods}
43/02 . having one rotary cleaning receptacle only
43/04 . having more than one rotary cleaning receptacle
43/06 . wherein the articles to be cleaned are passed through a cleaning chamber or bath
43/08 . Associated apparatus for handling and recovering the solvents
43/081 . . {Reclaiming or recovering the solvent from a mixture of solvent and contaminants, e.g. by distilling}
43/083 . . . {Condensing arrangements}
43/085 . . . {Filtering arrangements; Filter cleaning; Filter-aid powder dispensers}
43/086 . . {Recovering the solvent from the drying air current}
43/088 . . . {Condensing arrangements}

Expelling water from the linen; Smoothing by cold rolling**45/00 Wringing machines with two or more co-operating rollers; Similar cold-smoothing apparatus**

- 45/02 . wherein the pressure is transmitted by spring means
45/04 . . with hand-operated quick-release means
45/06 . . with automatically-operated quick-release means
45/08 . wherein the pressure is applied by fluid means
45/10 . with three or more co-operating rollers
45/12 . combined with washing machines
45/14 . with means for removable attachment to washing machines, tables or other supports
45/16 . Details
45/18 . . Driving or control arrangements for rotation of the rollers
45/20 . . Toggle or other lever means for transmitting pressure to the rollers
45/22 . . Rollers
45/24 . . Frames guiding or housing the roller shafts; Stands for supporting the roller framework
45/26 . . Draining boards; Feed or discharge boards; Stripping means
45/28 . . Belt arrangements for guiding the linen between the rollers

47/00 Apparatus of the press type for expelling water from the linen

- 47/02 . by a mechanically-actuated ram
47/04 . by a fluid-actuated ram
47/06 . by a flexible diaphragm
47/08 . Covers; Securing means therefor

49/00 Domestic spin-dryers or similar spin-dryers not suitable for industrial use

- 49/003 . {Doors or covers; Safety arrangements}
49/006 . {Rinsing arrangements}
49/02 . Bowl construction
49/04 . Bowl drive
49/06 . Mountings, e.g. resilient mountings, for the bowl or casings; Preventing or damping vibrations
49/08 . Liquid discharge arrangements

51/00 Apparatus for expelling or draining water from the linen, not provided for in the preceding groups

51/02 . by twisting

Drying; Airing

53/00 Clothes-lines; Supports therefor (drying frames incorporating clothes-lines D06F 57/00)

53/005 . {Accessories, e.g. line cleaning devices, line protectors, clothes-pin holders}

53/02 . Clothes-lines

53/04 . Supports, e.g. poles, props for clothes-lines

53/045 . . {comprising means for storing the clothes-line}

55/00 Clothes-pegs

55/02 . with pivoted {independent} clamping members

57/00 Supporting means, other than simple clothes-lines, for linen or garments to be dried or aired (in combination with means for heating or positive air circulation D06F 58/00; adapted to retain the shape of particular articles being dried D06F 59/00)

57/02 . mounted on pillars, e.g. rotatably {(sockets or holders for poles or posts E04H 12/22)}

57/04 . . and having radial arms, e.g. collapsible

57/06 . comprising vertical members connected by horizontal bars

57/08 . Folding stands (D06F 57/06 takes precedence)

57/10 . . of the lazy-tongs type

57/12 . specially adapted for attachment to walls, ceilings, stoves, or other structures or objects

57/122 . . {for attachment by clamping between two retaining-planes}

57/125 . . {for attachment to, or close to, the ceiling}

57/127 . . {for attachment or suspension to central heating radiators}

58/00 Domestic laundry dryers

NOTE

In this group, it is mandatory to add the indexing codes of groups D06F 2101/00 - D06F 2105/00.

58/02 . having dryer drums rotating about a horizontal axis

58/04 . . Details (controlling or regulating devices D06F 34/00)

58/06 . . . Mountings for the rotating drums

58/08 . . . Driving arrangements

58/10 . Drying cabinets or drying chambers having heating or ventilating means

58/12 . . having conveying means for moving clothes, e.g. along an endless track

58/14 . . Collapsible drying cabinets; Wall mounted collapsible hoods

58/16 . having heatable surfaces for contacting the laundry (D06F 59/00 takes precedence)

58/18 . Detachable or door-mounted drying arrangements for washing machines

58/20 . General details of domestic laundry dryers (D06F 59/00 takes precedence)

58/203 . . {Laundry conditioning arrangements}

58/206 . . {Heat pump arrangements}

58/22 . . Lint collecting arrangements

58/24 . . Condensing arrangements

58/26 . . Heating arrangements, e.g. gas heating equipment (D06F 58/18 takes precedence)

58/263 . . . {Gas heating equipment}

58/266 . . . {Microwave heating equipment}

58/30 . Drying processes (controlling a series of operations in domestic laundry dryers D06F 58/32)

58/32 . Control of operations performed in domestic laundry dryers (control of operations performed in washer-dryers D06F 33/50; details of control systems, e.g. for detecting or measuring specific parameters or for selection or indication of programs D06F 34/00)

58/34 . . characterised by the purpose or target of the control

58/36 . . . Control of operational steps, e.g. for optimisation or improvement of operational steps depending on the condition of the laundry

58/38 of drying, e.g. to achieve the target humidity

58/40 Control of the initial heating of the drying chamber to its operating temperature

58/42 by unheated air

58/44 of conditioning or finishing, e.g. for smoothing or removing creases

58/45 . . . Cleaning or disinfection of machine parts, e.g. of heat exchangers or filters

58/46 . . . Control of the operating time

58/48 . . . Control of the energy consumption

58/50 . . . Responding to irregular working conditions, e.g. malfunctioning of blowers

58/52 . . . Preventing or reducing noise

59/00 Supports adapted to retain the shape of particular articles being dried, e.g. incorporating heating means {(devices for retaining the shape of hats A42B 1/002)}

59/02 . for garments

59/04 . . for gloves

59/06 . . for stockings

59/08 . for curtains, table cloths, or other articles of sheet form

60/00 Drying not provided for in groups D06F 53/00 - D06F 59/00

Ironing; Pressing

61/00 Ironing machines using two or more co-operating pressing rollers

61/02 . with two rollers

61/04 . with three or more rollers one above the other

61/06 . with successive pairs of rollers

61/08 . with one central roller co-operating with a plurality of circumferential rollers

61/10 . with two or more central rollers co-operating with a plurality of circumferential rollers

63/00 Ironing machines having a roller or rollers coacting with a fixed or moving flat bed or table (coverings or pads D06F 83/00)

63/02 . with two or more rollers co-acting with a fixed or moving flat bed or table

65/00 Ironing machines with rollers rotating against curved surfaces

65/02 . with one roller only

65/04 . . the bed being urged against the roller by hand or foot

65/06 . . the bed being urged against the roller by power

- 65/08 . . the roller being urged against the bed
- 65/10 . with two or more rollers co-operating with two or more curved surfaces
- 67/00 Details of ironing machines provided for in groups D06F 61/00, D06F 63/00, or D06F 65/00 (coverings or pads for ironing or pressing members D06F 83/00)**
 - 67/005 . {Stands or cabinets}
 - 67/02 . Rollers; Heating arrangements therefor
 - 67/04 . Arrangements for feeding or spreading the linen
 - 67/06 . Means for stripping the linen from the rollers
 - 67/08 . Beds; Heating arrangements therefor
 - 67/10 . Driving arrangements
- 69/00 Ironing machines not otherwise provided for**
 - 69/02 . using endless or other ironing or pressing belts or aprons
 - 69/04 . with relatively-sliding flat surfaces
- 71/00 Apparatus for hot-pressing clothes, linen or other textile articles, i.e. wherein there is substantially no relative movement between pressing element and article while pressure is being applied to the article; Similar machines for cold-pressing clothes, linen or other textile articles**
 - 71/02 . actuated wholly by hand or foot (D06F 71/08 takes precedence)
 - 71/023 . . {with an upper movable pressing member and a lower fixed pressing member}
 - 71/026 . . . {the upper movable member rotating about a fixed axis}
 - 71/04 . power-actuated (D06F 71/08 takes precedence)
 - 71/043 . . {with an upper movable pressing member and a lower fixed pressing member (D06F 71/06 takes precedence)}
 - 71/046 . . . {the upper movable member rotating about a fixed axis}
 - 71/06 . . fluid-actuated
 - 71/062 . . . {with an upper movable pressing member and a lower fixed pressing member}
 - 71/065 {the upper movable member rotating about a fixed axis}
 - 71/067 {Fluid-control mechanisms for controlling the ironing pressure or the movement of the pressure member}
 - 71/08 . wherein one or more of the pressing elements is moved laterally between successive pressing operations
 - 71/10 . . by movement about a vertical axis
 - 71/12 . . by movement about a horizontal axis
 - 71/14 . . by a rectilinear movement
 - 71/16 . having a pressing element or buck adapted to provide interior support for a garment to be pressed (D06F 71/18 takes precedence)
 - 71/18 . specially adapted for pressing particular garments or parts thereof
 - 71/20 . . for pressing shirts
 - 71/22 . . for pressing collars
 - 71/24 . . for pressing cuffs
 - 71/26 . . for pressing shoulders or necks
 - 71/28 . . for pressing sleeves, trousers, or other tubular garments or tubular parts of garments
 - 71/285 . . . {for pressing sleeves}
 - 71/29 . . . Trousers
 - 71/295 {the top portion of trousers}
- 71/30 . specially adapted for pressing seams (specially adapted for pressing particular garments or parts thereof D06F 71/18)
- 71/32 . Details
- 71/323 . . {Protective devices, e.g. burn guards}
- 71/326 . . {Arrangements for producing a sliding or ironing movement between the pressing elements in closed position}
- 71/34 . . Heating arrangements; Arrangements for supplying or removing steam or other gases
- 71/36 . . Pressing elements (for use in pressing particular garments or parts thereof D06F 71/18; coverings or pads therefor D06F 83/00)
- 71/38 . . Feeding arrangements (feeding by lateral movement of pressing elements D06F 71/08)
- 71/40 . . Holders or stretchers for the article to be pressed
- 73/00 Apparatus for smoothing or removing creases from garments or other textile articles by formers, cores, stretchers, or internal frames, with the application of heat or steam (combined with external pressure means D06F 71/00)**
 - 73/02 . having one or more treatment chambers
- 75/00 Hand irons**
 - 75/02 . Externally-heated hand irons; Hand irons internally heated by means other than electricity, e.g. by solid fuel, by steam
 - 75/04 . . by pre-heated block
 - 75/06 . . with means for supplying steam or liquid to the article being ironed (D06F 75/32 takes precedence)
 - 75/08 . Hand irons internally heated by electricity
 - 75/10 . . with means for supplying steam to the article being ironed (D06F 75/32 takes precedence)
 - 75/12 . . . the steam being produced from water supplied to the iron from an external source
 - 75/14 . . . the steam being produced from water in a reservoir carried by the iron
 - 75/16 the reservoir being heated to produce the steam
 - 75/18 the water being fed slowly, e.g. drop by drop, from the reservoir to a steam generator
 - 75/20 . . . Arrangements for discharging the steam to the article being ironed
 - 75/22 . . with means for supplying liquid to the article being ironed (D06F 75/10 takes precedence)
 - 75/24 . . Arrangements of the heating means within the iron; Arrangements for distributing, conducting or storing the heat
 - 75/243 . . . {using other than ohmic-resistance heating means, e.g. electrolytic or induction heating}
 - 75/246 . . . {using infrared lamps}
 - 75/26 . . Temperature control or indicating arrangements
 - 75/265 . . . {Temperature indicating arrangements; Control knobs}
 - 75/28 . . Arrangements for attaching, protecting or supporting the electric supply cable
 - 75/30 . Hand irons of special external shape or form
 - 75/32 . Attachments for converting hand irons to steam irons
 - 75/34 . Handles; Handle mountings
 - 75/36 . Casings
 - 75/38 . Sole plates (D06F 75/20 takes precedence)

- 75/40 . Stands or supports attached to the iron
- 77/00 Arrangements for exerting pressure on, lifting, or guiding hand irons**
- 77/005 . {using an electro-magnet or a permanent magnet in the iron or the ironing board}
- 79/00 Accessories for hand irons**
- 79/02 . Stands or supports neither attached to, nor forming part of, the iron or ironing board
- 79/023 . . {with means for supplying current to the iron}
- 79/026 . . . {for cordless irons}
- 79/04 . Stoves or other heating means specially adapted for heating irons externally
- 79/06 . Means, not forming part of the iron, for cooling the iron
- 81/00 Ironing boards** (coverings or pads therefor [D06F 83/00](#); kitchen cabinets with ironing boards movable outwards to a position of use [A47B 77/10](#))
- 81/003 . {with flat iron support}
- 81/006 . {with fabric support or garment rack}
- 81/02 . with collapsible underframe
- 81/04 . . with means for adjusting height
- 81/06 . attachable to independent supports, e.g. walls
- 81/08 . incorporating heating, steaming, or forced ventilation means
- 81/10 . Top board elements
- 81/12 . Sleeve boards; Attaching means therefor
- 81/14 . Means for attaching covers
- 83/00 Coverings or pads for ironing or pressing members**
- 85/00 Independent elements for interposition between the article and the ironing or pressing surface**

Other laundry apparatus or systems

- 87/00 Apparatus for moistening or otherwise conditioning the article to be ironed or pressed** (apparatus for smoothing or removing creases from garments or other textile articles by formers, cores, stretchers or internal frames, with the application of heat or steam [D06F 73/00](#) (; devices used in combination with a laundry dryer [D06F 58/203](#)))
- 89/00 Apparatus for folding textile articles with or without stapling**
- 89/005 . {Manual folding devices, e.g. for folding bed sheets ([D06F 89/02](#) takes precedence)}
- 89/02 . of textile articles to be worn, e.g. shirts
- 89/023 . . {of shirts}
- 89/026 . . . {Details, e.g. collar holders}
- 91/00 Starching apparatus**
- 93/00 Counting, sorting, or marking arrangements specially adapted for laundry purposes**
- 93/005 . {Marking arrangements}
- 95/00 Laundry systems or arrangements of apparatus or machines; Mobile laundries** ([D06F 31/00](#) takes precedence)
- 95/002 . {Baskets or bags specially adapted for holding or transporting laundry; Supports therefor}
- 95/004 . . {Bags; Supports therefor}

- 95/006 . . . {Bags for holding the laundry during washing ([D06F 5/005](#) takes precedence)}
- 95/008 . {Devices for keeping articles together during laundering, e.g. for keeping socks in pairs ([D06F 95/004](#) takes precedence); Devices for protecting or shielding certain parts of the articles during laundering, e.g. button protectors}

Indexing scheme associated with groups [D06F 33/00](#), [D06F 34/00](#), [D06F 58/00](#)**2101/00 User input for the control of domestic laundry washing machines, washer-dryers or laundry dryers**

- 2101/02 . Characteristics of laundry or load
- 2101/04 . . Quantity, e.g. weight
- 2101/06 . . Type or material
- 2101/10 . Spin speed
- 2101/12 . Washing temperature
- 2101/14 . Time settings
- 2101/16 . Target humidity for the drying process, e.g. very-dry cycles
- 2101/18 . Target temperature for the drying process, e.g. low-temperature cycles
- 2101/20 . Operation modes, e.g. delicate laundry washing programs, service modes or refreshment cycles

2103/00 Parameters monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers

- 2103/02 . Characteristics of laundry or load
- 2103/04 . . Quantity, e.g. weight or variation of weight
- 2103/06 . . Type or material
- 2103/08 . . Humidity
- 2103/10 . . . expressed as capacitance or resistance
- 2103/12 . . Temperature
- 2103/14 . Supply, recirculation or draining of washing liquid
- 2103/16 . Washing liquid temperature
- 2103/18 . Washing liquid level
- 2103/20 . Washing liquid condition, e.g. turbidity
- 2103/22 . . Content of detergent or additives
- 2103/24 . Spin speed; Drum movements
- 2103/26 . Imbalance; Noise level
- 2103/28 . Air properties
- 2103/30 . . Pressure
- 2103/32 . . Temperature
- 2103/34 . . Humidity
- 2103/36 . . Flow or velocity
- 2103/38 . Time, e.g. duration
- 2103/40 . Opening or locking status of doors
- 2103/42 . related to filters or pumps
- 2103/44 . Current or voltage
- 2103/46 . . of the motor driving the drum
- 2103/48 . . of the motor driving the pump
- 2103/50 . related to heat pumps, e.g. pressure or flow rate
- 2103/52 . related to electric heating means, e.g. temperature or voltage
- 2103/54 . related to blowers or fans
- 2103/56 . related to air ducts, e.g. position of flow diverters
- 2103/58 . related to condensation, e.g. condensate water level
- 2103/60 . related to auxiliary conditioning or finishing agents, e.g. filling level of perfume tanks
- 2103/62 . . related to systems for water or steam used for conditioning or finishing

- 2103/64 . Radiation, e.g. microwaves
- 2103/66 . . for treatment of laundry otherwise than by drying,
e.g. using UV light
- 2103/68 . Operation mode; Program phase
- 2103/70 . Number of operational cycles
- 2105/00 Systems or parameters controlled or affected by
the control systems of washing machines, washer-
dryers or laundry dryers**
- 2105/02 . Water supply
- 2105/04 . . from separate hot and cold water inlets
- 2105/06 . Recirculation of washing liquids, e.g. by pumps or
diverting valves
- 2105/08 . Draining of washing liquids
- 2105/10 . Temperature of washing liquids; Heating means
therefor
- 2105/12 . Humidity or dryness of laundry
- 2105/14 . Temperature of laundry
- 2105/16 . Air properties
- 2105/18 . . Pressure
- 2105/20 . . Temperature
- 2105/22 . . Humidity
- 2105/24 . . Flow or velocity
- 2105/26 . Heat pumps
- 2105/28 . Electric heating
- 2105/30 . Blowers
- 2105/32 . Air flow control means
- 2105/34 . Filtering, e.g. control of lint removal devices
- 2105/36 . Condensing arrangements, e.g. control of water
injection therefor
- 2105/38 . Conditioning or finishing, e.g. control of perfume
injection
- 2105/40 . . using water or steam
- 2105/42 . Detergent or additive supply
- 2105/44 . Opening, closing or locking of doors
- 2105/46 . Drum speed; Actuation of motors, e.g. starting or
interrupting
- 2105/48 . . Drum speed
- 2105/50 . Starting machine operation, e.g. delayed start or re-
start after power cut
- 2105/52 . Changing sequence of operational steps; Carrying
out additional operational steps; Modifying
operational steps, e.g. by extending duration of steps
- 2105/54 . Changing between normal operation mode and
special operation modes, e.g. service mode,
component cleaning mode or stand-by mode
- 2105/56 . Remaining operation time; Remaining operational
cycles
- 2105/58 . Indications or alarms to the control system or to the
user
- 2105/60 . . Audible signals
- 2105/62 . Stopping or disabling machine operation

C.3 CPC definitives D06F

D06F

LAUNDERING, DRYING, IRONING, PRESSING OR FOLDING TEXTILE ARTICLES

Definition statement

This place covers:

- Domestic or laundry dry-cleaning apparatuses using volatile solvents;
- Domestic, laundry or tailors' ironing or other hot-pressing of clothes, linen or other textile articles;
- Controlling or regulating domestic laundry dryers (cf. [D06F 58/30](#)).

The Indexing Codes [D06F 2101/00](#) - [D06F 2101/20](#) cover user input for the control of domestic laundry washing machines, washer-dryers or laundry dryers.

The Indexing Codes [D06F 2103/00](#) - [D06F 2103/70](#) cover parameters monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers.

The Indexing Codes [D06F 2105/00](#) - [D06F 2105/62](#) cover systems or parameters controlled or affected by the control systems of washing machines, washer-dryers or laundry dryers.

Relationships with other classification places

This subclass does not cover treatment of textiles by purely chemical means, which is covered by subclasses [D06L](#) and [D06M](#).

Apparatuses for wringing, washing, dry cleaning, ironing or other hot-pressing of textiles in manufacturing operations are covered by [D06B](#) and [D06C](#).

A document should be classified in [D06F](#) if:

- It mainly relates to the treatment of home textiles, the treatment of other kinds of textiles should generally be classified somewhere else.
- It generally (but not always) relates to a domestic appliance for treating a textile article (the machine may however be coin-operated).

Exceptions to the rule at point (II) above are:

[D06F 31/00](#), [D06F 43/00](#), [D06F 47/00](#), [D06F 58/12](#), [D06F 67/04](#), [D06F 71/00](#), [D06F 89/00](#) , [D06F 93/00](#), [D06F 95/00](#) as well as their subgroups.

Applications regarding washing machine components like e.g. pumps, electric motors, electronic devices, displays per se, i.e. applications which claim the technical features of those components without describing any particular interaction between said components and the household appliance do not usually belong to [D06F](#), but to the general classification entry of their function per se.

The above-mentioned devices are mainly seen as "black boxes" connected to the appliance so as to interact with the appliance's operation.

For example, if an application relates to a jog dial, a display or a selector switch, there must be an interaction between said devices and the appliance itself in order to classify said application in [D06F 34/28](#) (the display or the switch should e.g. be mounted to the front panel and/or should e.g. be used for selecting a washing program).

A set of claims including a claim like "a household appliance comprising the device (e.g. a pump) according to claim 1" does only mean that a device according to claim 1 may be used in a household appliance (e.g. in a washing machine) and that the application may be classified in [D06F](#) only if there's a clear interaction between the component and the appliance's operation.

D06F (continued)

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Relationships with other classification places

It is not to be automatically assumed that such applications belong to [D06F](#), nor that a household appliance should automatically be a washing machine or a dryer (a household appliance could e.g. be a stove, an oven, a refrigerator etc.).

References**Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Apparatus for blocking, pressing, steaming or stretching hats	A42C
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Dishwashers	A47L 15/00
Cleaning in general	B08B
Treating textile materials by liquids, gases or vapors	D06B
Valves	F16K
Drying in general	F26B
Sensors	G01M
Electric motors	H02K

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Drum	Washing receptacle, rotating drum, washing drum or washing tub; the washing receptacle or drum is where the clothes are placed. Drums are generally perforated and are usually the rotating part of the washing machine, however, in D06F 13/00 and subgroups, D06F 15/00 and subgroups, D06F 17/00 and subgroups, D06F 18/00 and subgroups and D06F 19/00 and subgroups, the drum is always stationary.
Tub	Enclosing receptacle, external drum, external tub or fixed tub; the tub is the fixed part of the washing assembly, it contains the washing drum as well as the washing fluid; the tub is generally stationary and water-tight.
Washing assembly	Oscillating assembly, oscillating part or suspended part; it is generally composed by both the drum and the tub.
Lifter	Rib, elements mounted to a rotating drum and acting mainly on the clothes
Agitator:	Rotary and/or oscillating device mounted inside a stationary washing drum and acting mainly on the clothes
Impeller	Rotary devices mounted inside a stationary washing drum and acting mainly on the washing liquid

D06F 1/00

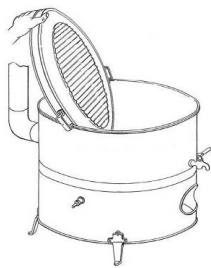
Washing receptacles (of washing machines [D06F 37/00](#), [D06F 39/00](#))

Definition statement

This place covers:

Washing receptacles suitable for hand washing (e.g. wash-up bowls).

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Details of washing machines

D06F 37/00 , D06F 39/00

D06F 1/02

Wash-tubs; Supports therefor

Definition statement

This place covers:

Wash-up bowls per se.

Illustrative example of subject matter classified in this group.



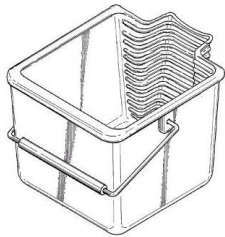
D06F 1/04

the tub walls or bottom having corrugations

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Rubbing boards	D06F 3/02
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D06F 1/06

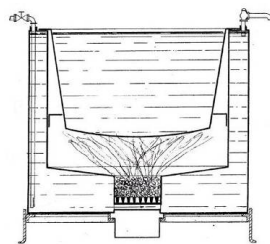
Wash-boiler receptacles

Definition statement

This place covers:

Wash-up bowls (generally made of metal) which can be heated by e.g. a gas burner.

Illustrative example of subject matter classified in this group.



D06F 1/08

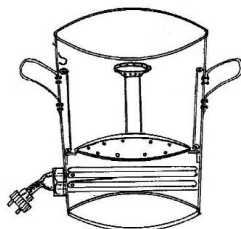
with special means for water circulation by heat, e.g. fountain-washers

Definition statement

This place covers:

Wash-up bowls (generally made of metal) comprising means for concentrating the heat of e.g. a burner and for applying it in such a way (e.g. to a hot water circuit), that steam within the boiler is quickly generated and, together with hot water, it is discharged on the garments to be washed.

Illustrative example of subject matter classified in this group.



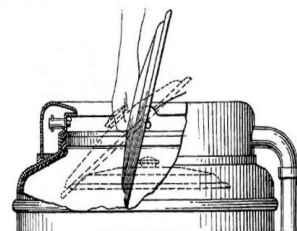
D06F 1/10

Covers; Handles

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 1/12

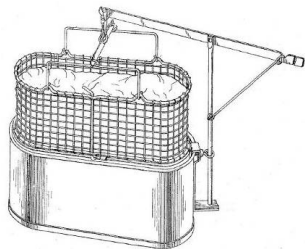
Racks or other rigid open containers of skeleton or like apertured construction supporting clothes in washing receptacles

Definition statement

This place covers:

Wire frame baskets or perforated metal containers suitable for supporting clothes in washing receptacles.

Illustrative example of subject matter classified in this group.



D06F 3/00

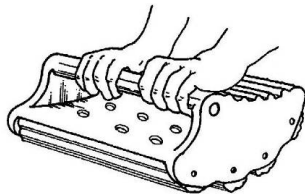
Hand rubbing apparatus (corrugated tub-walls [D06F 1/04](#))

Definition statement

This place covers:

Corrugated means against which the clothes are rubbed.

Illustrative example of subject matter classified in this group.



References

Limiting references

This place does not cover:

Wash-tubs with the tub walls or bottom having corrugations	D06F 1/04
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Special rules of classification

Wash-up bowls incorporating a corrugated surface have to be classified in [D06F 1/04](#) only.

Rubbing boards have to be classified in [D06F 3/02](#) only.

D06F 3/02

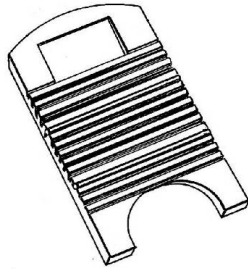
Rubbing boards

Definition statement

This place covers:

Corrugated boards against which the clothes are rubbed.

Illustrative example of subject matter classified in this group.



D06F 3/04

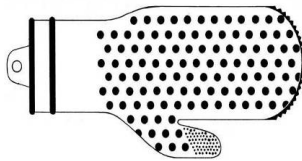
Hand rubbers, e.g. gloves with corrugated surfaces

Definition statement

This place covers:

Rubbing devices which are supposed to be used directly by hand.

Illustrative example of subject matter classified in this group.



D06F 5/00

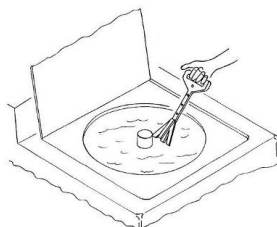
Hand implements for washing purposes, e.g. sticks (hand rubbing appliances [D06F 3/00](#))

Definition statement

This place covers:

Hand implements which are specifically designed for uniformly distributing/stirring the washing agent and/or the laundry in the washing tub.

Illustrative example of subject matter classified in this group.



References

Limiting references

This place does not cover:

Hand rubbing appliances	D06F 3/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Brushes	A46B
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D06F 5/005

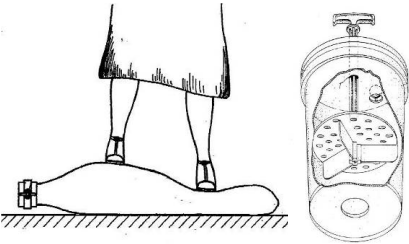
{Receptacles for washing articles, e.g. hosiery, by shaking or squeezing}

Definition statement

This place covers:

Washing receptacles, wherein the washing action is obtained by shaking or squeezing the receptacle itself.

Illustrative example of subject matter classified in this group.



D06F 5/02

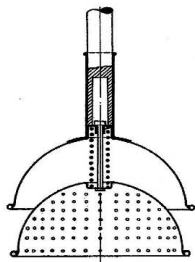
Plungers, dollies, pounders, squeezers, or the like

Definition statement

This place covers:

Washing devices which, during the washing action, are repeatedly pressed against the laundry/ removed from the laundry along a generally vertical direction.

Illustrative example of subject matter classified in this group.



References

Limiting references

This place does not cover:

Grippers	D06F 5/06
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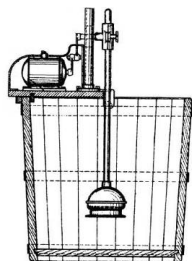
D06F 5/04

adapted for removable mounting on receptacles such as wash-tubs

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 5/06

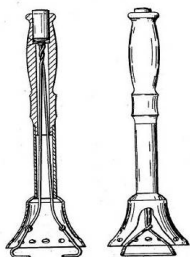
Grippers

Definition statement

This place covers:

Laundry grippers specially designed for washing purposes.

Illustrative example of subject matter classified in this group.



D06F 7/00

Washing devices adapted to be used independently of any particular receptacle, e.g. for removable mounting on wash-tubs, bath-tubs, or the like

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 7/02

of the rotary-impeller type

Definition statement

This place covers:

Impellers or similar rotating bodies suitable for agitating the washing liquid.

D06F 7/02 (continued)
Definition statement

CPC - D06F - 2024.05

Illustrative example of subject matter classified in this group.



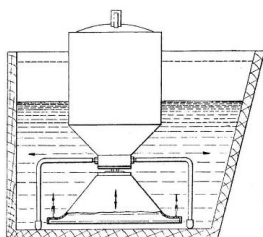
D06F 7/04
of the vibrator type

Definition statement

This place covers:

Washing devices, wherein the agitation of the washing fluid is generally obtained by oscillating e.g. a solid flat surface with a steady uninterrupted rhythm.

Illustrative example of subject matter classified in this group.



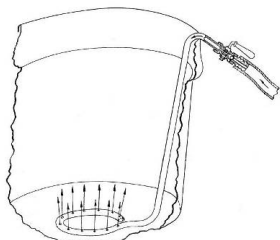
D06F 7/06
agitating the washing liquid by air

Definition statement

This place covers:

Washing devices, wherein the washing action is obtained by agitating the washing liquid using e.g. air jets.

Illustrative example of subject matter classified in this group.



D06F 9/00

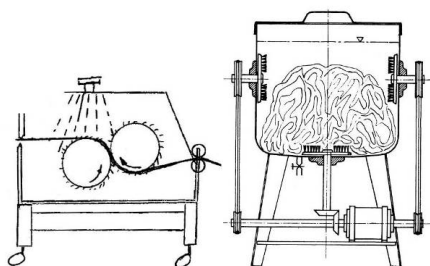
Brushing-type washing machines

Definition statement

This place covers:

Devices for washing home textiles comprising one or more brushing elements, wherein said brushing element comprises bristles hard enough to remove dirt but not so hard that they cause damage to the laundry.

Illustrative examples of subject matter classified in this group.



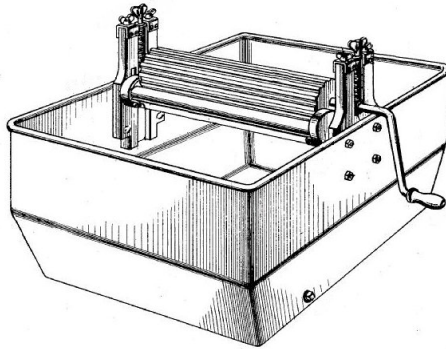
D06F 11/00

Washing machines using rollers, e.g. of the mangle type

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Wringing machines with two or more cooperating rollers.

D06F 45/00

D06F 13/00

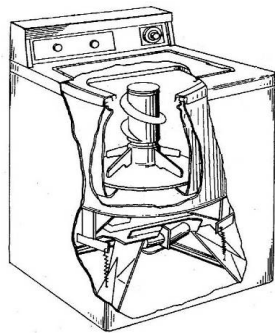
Washing machines having receptacles, stationary for washing purposes, with agitators therein contacting the articles being washed (plungers or the like adapted for removable mounting on receptacles [D06F 5/04](#))

Definition statement

This place covers:

Vertical axis washing machines provided with laundry agitators.

Illustrative example of subject matter classified in this group.



References

Limiting references

This place does not cover:

Plungers or the like adapted for removable mounting on receptacles	D06F 5/04
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing devices adapted to be used independently of any particular receptacle	D06F 7/00
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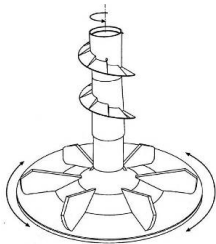
D06F 13/02

wherein the agitator has an oscillatory rotary motion only

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Agitator	Rotary and/or oscillating device mounted inside a stationary washing drum and acting mainly on the clothes
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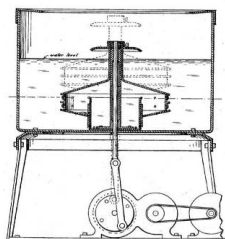
D06F 13/04

wherein the agitator has an axial motion only

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



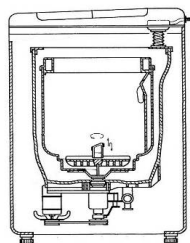
D06F 13/06

wherein the agitator has both rotary, e.g. oscillating rotary, motion and axial motion

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 13/08

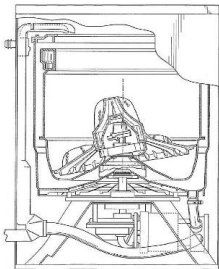
wherein the agitator has a gyratory or orbital motion

Definition statement

This place covers:

Vertical axis washing machines, wherein the agitator rotates and/or has an orbital motion.

Illustrative example of subject matter classified in this group.



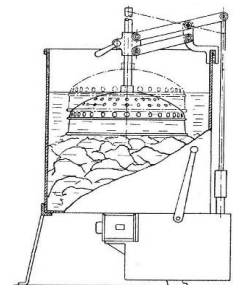
D06F 15/00

Washing machines having beating, rubbing or squeezing means in receptacles stationary for washing purposes (plungers or the like adapted for removable mounting on receptacles [D06F 5/04](#); mangle-type washing machines [D06F 11/00](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



References

Limiting references

This place does not cover:

Plungers or the like adapted for removable mounting on receptacles	D06F 5/04
Mangle-type washing machines	D06F 11/00

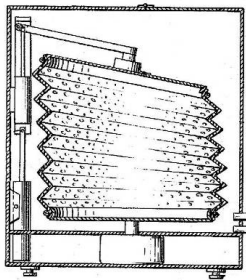
D06F 15/02

wherein the articles being washed are squeezed by a flexible diaphragm or bag

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 17/00

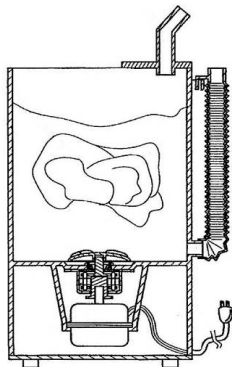
**Washing machines having receptacles, stationary for washing purposes,
wherein the washing action is effected solely by circulation or agitation of the
washing liquid**

Definition statement

This place covers:

Washing machines, wherein the washing action is only obtained by circulating or agitating the washing fluid.

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing devices adapted to be used independently of any particular receptacle	D06F 7/00
Using vibrations for washing purposes	D06F 19/00

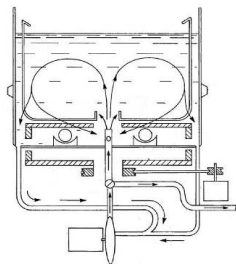
D06F 17/02

by pumps ([D06F 17/04](#) takes precedence)

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



References

Limiting references

This place does not cover:

Washing action effected solely by water jets	D06F 17/04
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Dishwashers / washing liquid circulation by appl. pressure	A47L 15/08
--	----------------------------

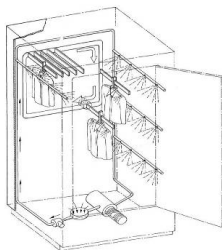
D06F 17/04

solely by water jets

Definition statement

This place covers:

Washing machines technically close to dishwashers.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Dishwashers having stat. baskets and rigidly mounted spraying devices	A47L 15/16
---	----------------------------

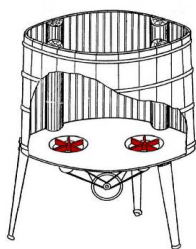
D06F 17/06

by rotary impellers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



Synonyms and Keywords

In this patent documents, the word "Impeller" is often used as a "synonym" for "pulsator".

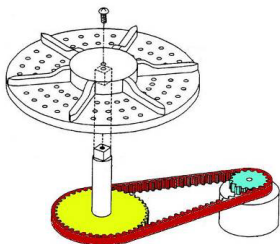
D06F 17/08

Driving arrangements for the impeller

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



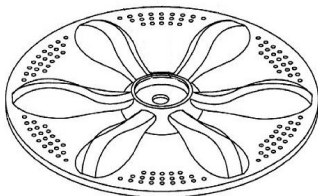
D06F 17/10

Impellers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



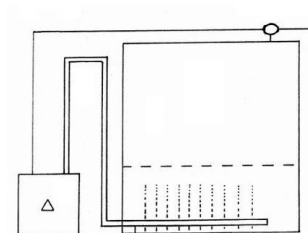
D06F 17/12

solely by gases, e.g. air or steam, introduced into the washing liquid

Definition statement

This place covers:

Washing machines technically close to dishwashers (no drum is present).

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Dishwashers wherein the circulation of the washing liquid is obtained by introducing compressed gas (e.g. air) in the washing liquid	A47L 15/10
--	----------------------------

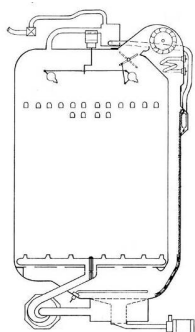
D06F 18/00

Washing machines having receptacles, stationary for washing purposes, and having further drying means (control of washing or of washing and drying [D06F 33/00](#), [D06F 34/00](#); domestic laundry dryers [D06F 58/00](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



References

Limiting references

This place does not cover:

Control of washing or of washing and drying	D06F 33/00 , D06F 34/00
Domestic laundry dryers	D06F 58/00

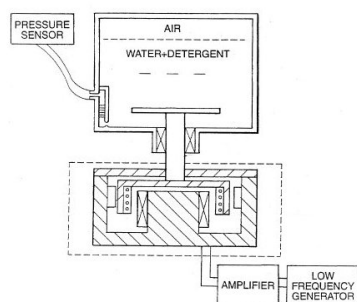
D06F 19/00

Washing machines using vibrations for washing purposes

Definition statement

This place covers:

Washing machines comprising vibrating devices.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices of the vibrator type adapted to be used independently of any particular receptacle	D06F 7/04
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D06F 21/00

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement (with receptacles serving both for washing and centrifugally separating water from the laundry [D06F 23/00](#), [D06F 25/00](#); programme control aspects [D06F 33/00](#))

Definition statement

This place covers:

General concepts regarding the washing machine as a whole;

Machines which do not necessarily spin-dry and which may comprise lifters and/or impellers.

References**Limiting references**

This place does not cover:

Washing machines with receptacles moving bodily about an axis	D06F 27/00
Programme-control aspects of washing machines	D06F 33/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles moving bodily about an axis	D06F 27/00
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Synonyms and Keywords

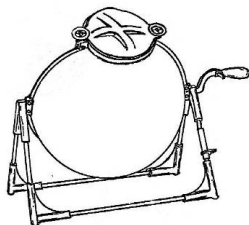
In patent documents, the following words/expressions are often used as synonyms:

- receptacle and drum
- enclosing receptacle and tub
- lifters and ribs

D06F 21/02**about a horizontal axis****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group.



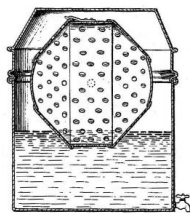
D06F 21/04

within an enclosing receptacle

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



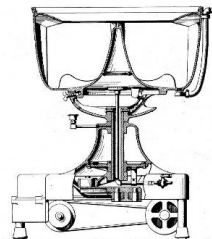
D06F 21/06

about a vertical axis

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 21/08

within an enclosing receptacle

Definition statement

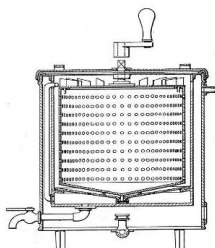
This place covers:

Washing machines comprising a tub (enclosing receptacle).

D06F 21/08 (continued)
Definition statement

CPC - D06F - 2024.05

Illustrative example of subject matter classified in this group.

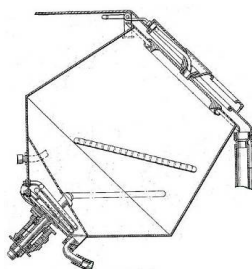


D06F 21/10
about an inclined axis

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

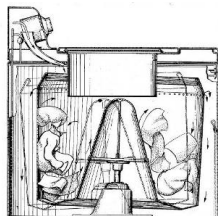


D06F 21/12
the receptacle having a wobbling motion

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



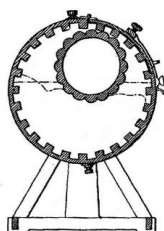
D06F 21/14

with rubbing or beating means not secured to, or forming part of, the receptacle

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**D06F 23/00**

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and for centrifugally separating water from the laundry (with further drying means [D06F 25/00](#); programme control aspects [D06F 33/00](#))

Definition statement

This place covers:

General layouts.

References**Limiting references**

This place does not cover:

Washing machines of this type with further drying means	D06F 25/00
Programme-control aspects	D06F 33/00

Synonyms and Keywords

In patent documents, the following words/expressions are often used as synonyms:

- tub and drum

D06F 23/02

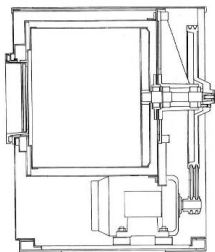
and rotating or oscillating about a horizontal axis

Definition statement

This place covers:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement around an horizontal axis, the receptacle serving both for washing and centrifugally draining.

Illustrative example of subject matter classified in this group.



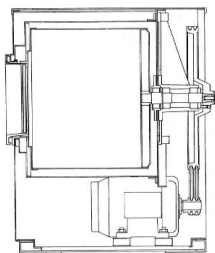
D06F 23/025

{with a rotatable imperforate tub}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 23/04

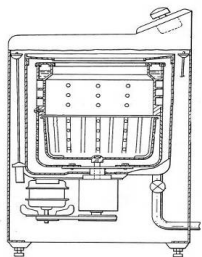
and rotating or oscillating about a vertical axis

Definition statement

This place covers:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement around a vertical axis, the receptacle serving both for washing and centrifugally draining.

Illustrative example of subject matter classified in this group:



D06F 23/06

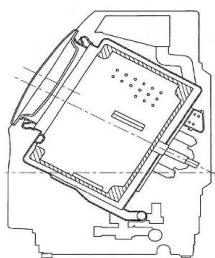
and rotating or oscillating about an inclined axis

Definition statement

This place covers:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement around an inclined axis, the receptacle serving both for washing and centrifugally draining.

Illustrative example of subject matter classified in this group.



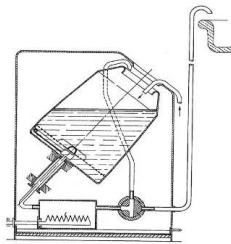
D06F 23/065

{with a rotatable imperforate tub}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 25/00

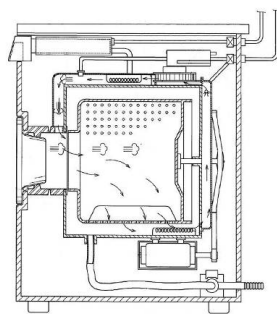
Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and for centrifugally separating water from the laundry and having further drying means, e.g. using hot air (control of washing or of washing and drying [D06F 33/00](#), [D06F 34/00](#); domestic laundry dryers [D06F 58/00](#))

Definition statement

This place covers:

General and simple aspects of the drying means.

Illustrative example of subject matter classified in this group.



References**Limiting references**

This place does not cover:

Control of washing or of washing and drying	D06F 33/00 , D06F 34/00
Domestic laundry dryers	D06F 58/00

Synonyms and Keywords

In patent documents, the following words/expressions are often used as synonyms:

- "receptacle" and "drum"

D06F 27/00

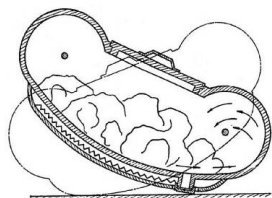
Washing machines with receptacles moving bodily, e.g. reciprocating, swinging

Definition statement

This place covers:

Washing machines having receptacles which do not necessarily rotate around an axis and, wherein the washing action is mainly obtained by shaking, oscillating, lifting and/or dropping of the receptacle as a whole.

Illustrative example of subject matter classified in this group.

**D06F 29/00**

Combinations of a washing machine with other separate apparatus in a common frame or the like, e.g. with rinsing apparatus

Definition statement

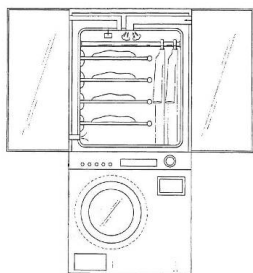
This place covers:

Combinations of washing machines with other separate household appliances, wherein both devices share the same support structure (e.g. frame or casing).

D06F 29/00 (continued)
Definition statement

CPC - D06F - 2024.05

Illustrative example of subject matter classified in this group.



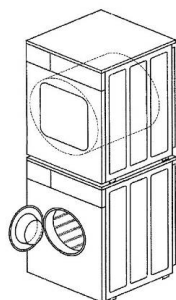
D06F 29/005

{the other separate apparatus being a drying appliance}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



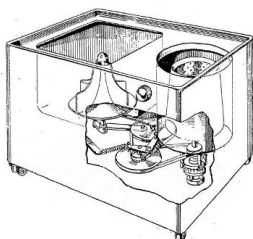
D06F 29/02

with liquid-extracting apparatus (with roller wringer [D06F 45/12](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Limiting references**

This place does not cover:

Combination with roller wringer

D06F 45/12

D06F 31/00

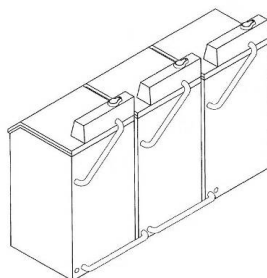
Washing installations comprising an assembly of several washing machines or washing units, e.g. continuous flow assemblies

Definition statement

This place covers:

Industrial devices for hospitals, hotels or professional laundries.

Illustrative example of subject matter classified in this group.



D06F 31/005

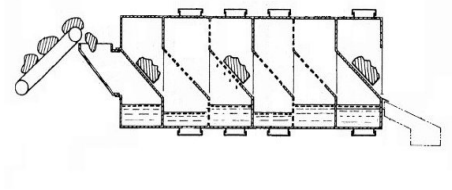
{consisting of one or more rotating drums through which the laundry passes in a continuous flow}

Definition statement

This place covers:

Batch or tunnel washing machines, wherein the drums have either vertical or horizontal axes.

Illustrative example of subject matter classified in this group.



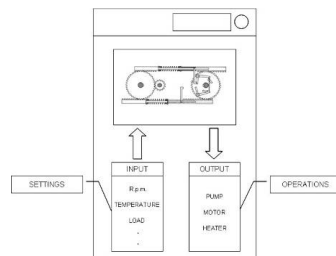
D06F 33/06

substantially mechanically

Definition statement

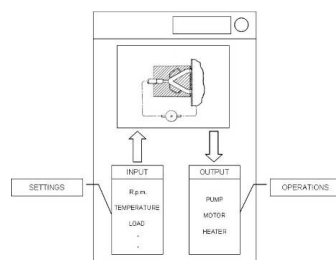
This place covers:

Illustrative example of subject matter classified in this group.

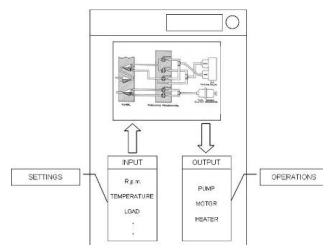


D06F 33/08**substantially hydraulically****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**D06F 33/10****substantially pneumatically****Definition statement***This place covers:*

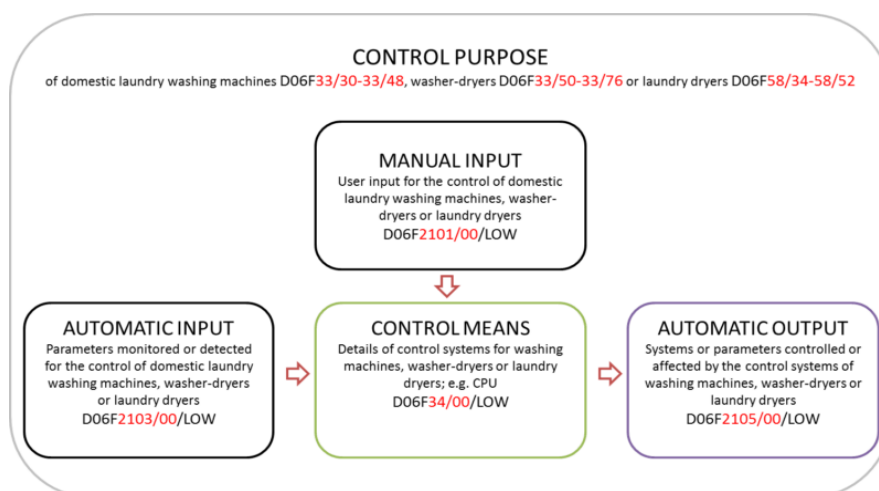
Illustrative example of subject matter classified in this group.

**D06F 33/30****Control of washing machines characterised by the purpose or target of the control (controlling processes of washer-dryers [D06F 33/50](#))****Definition statement***This place covers:*

The controlling processes of washing machines that are classified in this group and its subgroups according to their specific purpose, e.g. the optimization / improvement of the washing phase or the prevention of imbalance or noise. The further information relating to the (manual and/or automatic) input and the output of these controlling processes is classified with the mandatory indexing codes and any details of the control means per se, i.e. the "hardware" is classified in the groups relating to the details of the control means (see special rules of classification for this group and its subgroups).

Concept

The following picture schematically illustrates how a controlling process of a washing machine, washer-dryer or laundry dryer is classified based on how it works. An input signal (i.e. a user input as "manual input" or an automatically detected signal as "automatic input", e.g. by a sensors) is fed into a control unit as "control means", which depending on the purpose of the control sends corresponding command signals to the machine components.



A controlling process for a laundry treating apparatus (e.g. a washing machine) has a specific "control purpose" and implies the presence of a "control means" (e.g. a CPU), whereby the control means is usually a control unit which comprises a user interface (e.g. a control panel) and several sensors for the automatic detection of e.g. temperature, pressure, liquid level, etc.

Moreover, the control unit is usually configured to perform actions as "automatic output" (e.g. switching a heater ON/OFF, regulating the drum speed, etc.), depending on the purpose of the control and based on the input of the user and/or the signals provided by the sensors.

Example: washing machine - control method

Control method for a washing machine employing a control unit adapted to detect the level and the temperature of the washing liquid and to switch the tub heater ON/OFF based on the laundry load, as input by the user, such as to reduce the energy consumption.

Classification of the example:

- Purpose: [D06F 33/46](#) (Control of the energy or water consumption)
- Manual input: [D06F 2101/04](#) (Characteristics of laundry or load – Quantity, e.g. weight)
- Automatic input: [D06F 2103/16](#) (Washing liquid temperature); [D06F 2103/18](#) (Washing liquid level)
- Automatic output: [D06F 2105/10](#) (Temperature of washing liquids; Heating means therefor)
- Note: The method of the present example essentially concerns the control of the machine per se and, as such, it should not be classified in the [D06F 35/00](#) area, which relates to methods focused on the treatment of the laundry.

References

Limiting references

This place does not cover:

Controlling processes of washer-dryers	D06F 33/50
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Methods for washing, rinsing or spin-drying	D06F 35/005
Controlling processes for dishwashers	A47L 15/0018

Special rules of classification

It is mandatory to classify all relevant aspects related to: purpose, manual input, automatic input, automatic output and details of the control means.

- Purpose (washing machines) [D06F 33/30](#) - [D06F 33/48](#)
- Manual Input [D06F 2101/00](#) - [D06F 2101/20](#)
- Automatic Input [D06F 2103/00](#) - [D06F 2103/70](#)
- Automatic Output [D06F 2105/00](#) - [D06F 2105/62](#)
- Details of the Control Means [D06F 34/00](#) - [D06F 34/34](#)

Note: The methods in the present area essentially concern the control of the machine per se; as such, they should not be classified in [D06F 35/005](#), [D06F 35/006](#) and [D06F 35/007](#), which relate to methods focused on the treatment of the laundry; however, in exceptional cases where both aspects are important, classification symbols belonging to both areas might be assigned.

It is noted that [D06F 35/005](#) and subgroups relate to methods for treating the laundry whereas [D06F 33/00](#) and subgroups relate to devices and methods for controlling the appliance.

D06F 33/32

Control of operational steps, e.g. optimisation or improvement of operational steps depending on the condition of the laundry

Definition statement

This place covers:

The control of the individual operational steps or phases of a washing machine cycle.

D06F 33/34

of water filling

Definition statement

This place covers:

The control of individual operational steps concerning the water-filling phase.

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Liquid discharge or supply arrangements	D06F 39/08
Water supply components, e.g. water supply valves	D06F 39/088

D06F 33/36**of washing****Definition statement**

This place covers:

The control of individual operational steps concerning the washing phase.

D06F 33/37**of metering of detergents or additives****Definition statement**

This place covers:

The control of individual operational steps concerning the employment of detergents or additives, e.g. determining the appropriate detergent amount based on the type and amount of laundry.

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Devices for adding soap or other washing agents, components for dispensing detergent	D06F 39/02
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D06F 33/38**of rinsing****Definition statement**

This place covers:

Control methods or control arrangements concerning the rinsing phase, e.g. having the purpose of reducing the amount of water for rinsing the laundry.

Special rules of classification

Methods for rinsing the laundry are classified in [D06F 35/006](#).

D06F 33/40**of centrifugal separation of water from the laundry****Definition statement**

This place covers:

Control methods or control arrangements concerning the spinning phase.

Special rules of classification

Methods for spinning the laundry are classified in [D06F 35/007](#).

D06F 33/42**of draining****Definition statement**

This place covers:

Control methods or control arrangements concerning the draining phase.

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Liquid supply or discharge arrangements	D06F 39/08
Detecting faulty draining operations, e.g. filter blockage, faulty pump	D06F 39/082
Liquid discharge or recirculation arrangements, draining components	D06F 39/083

D06F 33/43**Control of cleaning or disinfection of washing machine parts, e.g. of tubs****Definition statement**

This place covers:

Control methods or control arrangements having the purpose of cleaning or disinfection of washing machine parts, e.g. of tubs.

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Arrangements for disinfecting the tub or the drum	D06F 35/008
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Special rules of classification

Methods for disinfecting the tub or the drum are classified under [D06F 35/008](#).

Control methods for disinfecting the clothes or the washing fluid are classified in other places of [D06F](#), such as [D06F 35/00](#); [D06F 35/001](#); [D06F 35/004](#); [D06F 37/00](#); [D06F 39/00](#).

D06F 33/44**Control of the operating time, e.g. reduction of overall operating time****Definition statement**

This place covers:

Control methods or control arrangements concerning the operating time, e.g. reduction of overall operating time.

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Timing arrangements	D06F 34/06
Control of the operating time in laundry dryers	D06F 58/46
Time settings	D06F 2101/14
Time, e.g. duration	D06F 2103/38
Remaining operation time; Remaining operational cycles	D06F 2105/56

D06F 33/46**Control of the energy or water consumption****Definition statement**

This place covers:

The control of operational steps concerning the reduction of energy or water consumption.

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Arrangements for the recovery of water in laundry washing machines	D06F 39/20
Arrangements for the recovery of energy in laundry washing machines	D06F 39/30

D06F 33/47**Responding to irregular working conditions, e.g. malfunctioning of pumps
(safety arrangements [D06F 37/42](#))****Definition statement**

This place covers:

The control of operational steps concerning the prevention and early detection of potentially dangerous or abnormal working conditions that might cause damage to the user and/or to the machine, e.g. clogging of the drain pump, water leaks, electric malfunctions, etc.

References

Limiting references

This place does not cover:

Safety arrangements	D06F 37/42
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D06F 33/48

Preventing or reducing imbalance or noise

Definition statement

This place covers:

The control of operational steps to reduce and/or prevent imbalance or noise.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Control of washer-dryers for preventing or reducing imbalance or noise	D06F 33/76
Arrangements for detecting or measuring imbalance	D06F 34/16
Mountings, e.g. resilient mountings, for the rotary receptacle, motor, tub, or casing; Preventing or damping vibrations	D06F 37/20
Damping vibrations by displacing, supplying or ejecting a material, e.g. liquid, into or from counterbalancing pockets (in machines with a receptacle rotating or oscillating about a horizontal axis)	D06F 37/225
Damping vibrations by displacing, supplying or ejecting a material, e.g. liquid, into or from counterbalancing pockets (in machines with a receptacle rotating or oscillating about a vertical axis)	D06F 37/245
Parameters of unbalance or noise monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers	D06F 2103/26

D06F 33/50

Control of washer-dryers characterised by the purpose or target of the control

Definition statement

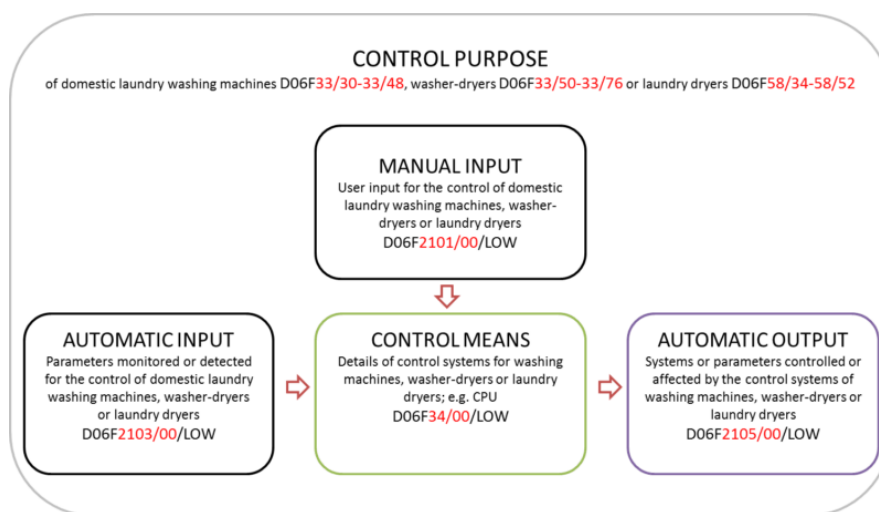
This place covers:

The controlling processes of washer-dryers that are classified in this group and its subgroups according to their specific purpose, e.g. the optimization / improvement of the washing phase or the prevention of imbalance or noise. The same classification rules set out for [D06F 33/30](#) also apply mutatis mutandis to [D06F 33/50](#) - [D06F 33/76](#), as shown in the schematic picture below. It is noted that a symbol belonging to the aforementioned range should only be given in case the control process applies specifically to a washer-dryer, and would therefore not work for a washing machine or a laundry dryer.

The further information relating to the (manual) input and the output of these controlling processes is classified with the mandatory indexing codes and any details of the control means per se, i.e. the "hardware" is classified in the groups relating to the details of the control means (see special rules of classification for this group and its subgroups).

Concept

The following picture schematically illustrates how a controlling process of a washing machine, washer-dryer or laundry dryer is classified based on how it works: an input signal (i.e. a user input as "manual input" or an automatically detected signal as "automatic input", e.g. by a sensors) is fed into a control unit as "control means", which depending on the purpose of the control sends corresponding command signals to the machine components.



The preceding image makes reference to the following symbols: [D06F 33/30-D06F 33/48](#), [D06F 33/50-D06F 33/76](#), [D06F 58/34-D06F 58/52](#), [D06F 2101/00](#), [D06F 2103/00](#), [D06F 34/00](#), [D06F 2105/00](#).

Example: washer-dryer

Washer-dryer provided with a control circuit, a control panel, an air heater and a temperature sensor for measuring the temperature of the drying air, whereby the user interface allows the user to set the maximum temperature of the drying air and the control unit is configured to regulate both the heater (e.g. by switching it ON/OFF) and the blower fan based on the temperature of the drying air.

Moreover, according to the description, the control aims to avoid damaging the laundry by overheating.

Classification of the example:

- Purpose: [D06F 33/52](#) (Control of the operational steps, e.g. optimisation or improvement of operational steps depending on the condition of the laundry)
- Manual input: [D06F 2101/18](#) (Target temperature for the drying process, e.g. low-temperature cycles)
- Automatic input: [D06F 2103/32](#) (Air properties – Temperature)
- Automatic output: [D06F 2105/28](#) (Electric heating); [D06F 2105/30](#) (Blowers)
- Washer-dryers: [D06F 25/00](#)

Note: As a general rule, all washer-dryers are classified in [D06F 25/00](#).

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
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Special rules of classification

As a general rule, all washer-dryers are classified in [D06F 25/00](#).

It is mandatory to classify all relevant aspects related to: purpose, manual input, automatic input, automatic output and details of the control means.

- Purpose (washer-dryers) [D06F 33/50](#) - [D06F 33/76](#)
- Manual Input [D06F 2101/00](#) - [D06F 2101/20](#)
- Automatic Input [D06F 2103/00](#) - [D06F 2103/70](#)
- Automatic Output [D06F 2105/00](#) - [D06F 2105/62](#)
- Details of the Control Means [D06F 34/00](#) - [D06F 34/34](#)

Note: The methods in the present area essentially concern the control of the machine per se and as such, they should not be classified in the [D06F 35/00](#) area, which relates to methods focused on the treatment of the laundry. However, in exceptional cases where both aspects are important, classification symbols belonging to both areas might be assigned.

D06F 33/52

Control of the operational steps, e.g. optimisation or improvement of operational steps depending on the condition of the laundry

Definition statement

This place covers:

The control of operational steps, which are focused on the condition of the laundry.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
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D06F 33/54

of water filling

Definition statement

This place covers:

The control of operational steps concerning the water-filling phase.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
Liquid discharge or supply arrangements	D06F 39/08
Water supply components, e.g. water supply valves	D06F 39/088

D06F 33/56

of washing

Definition statement

This place covers:

The control of operational steps concerning the washing phase.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
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D06F 33/57

of metering of detergents or additives

Definition statement

This place covers:

The control of individual operational steps concerning the employment of detergents or additives, e.g. determining the appropriate detergent amount based on the type and amount of the laundry load.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
Devices for adding soap or other washing agents, components for dispensing detergent	D06F 39/02

D06F 33/58**of rinsing****Definition statement**

This place covers:

Control methods or control arrangements concerning the rinsing phase, e.g. reducing the amount of water for rinsing the laundry load.

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
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Special rules of classification

Methods for rinsing the laundry (i.e. wherein the focus is on the treatment of the laundry, not on the control of the machine) are classified in [D06F 35/006](#).

D06F 33/60**of centrifugal separation of water from the laundry****Definition statement**

This place covers:

Control methods or control arrangements concerning the laundry-spinning phase.

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
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D06F 33/62**of draining****Definition statement**

This place covers:

Control methods or control arrangements concerning the draining phase.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
Liquid supply or discharge arrangements	D06F 39/08
Detecting faulty draining operations, e.g. filter blockage, faulty pump	D06F 39/082
Liquid discharge or recirculation arrangements, draining components	D06F 39/083

D06F 33/63

of air flow, e.g. blowing air during the washing process to prevent entanglement of the laundry

Definition statement

This place covers:

Control methods or control arrangements aiming at steering the airflow and having purposes different from pure drying.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
Parameters monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers - related to blowers or fans	D06F 2103/54
Parameters monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers - related to air ducts, e.g. position of flow diverters	D06F 2103/56
Systems or parameters controlled or affected by the control systems of washing machines, washer-dryers or laundry dryers - airflow control means	D06F 2105/32

D06F 33/64

Unheated air

Definition statement

This place covers:

Control methods or control arrangements aiming to steer the airflow and having purposes different from pure drying, wherein the air is unheated.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
Parameters monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers - related to blowers or fans	D06F 2103/54
Parameters monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers - related to air ducts, e.g. position of flow diverters	D06F 2103/56
Systems or parameters controlled or affected by the control systems of washing machines, washer-dryers or laundry dryers - air flow control means	D06F 2105/32

D06F 33/65

of conditioning or finishing phases, e.g. for smoothing or removing creases

Definition statement

This place covers:

Control methods or control arrangements for washer-dryers having the purpose of conditioning or finishing the laundry, e.g. using a laundry-conditioning agent like water, steam, perfume, starch.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
Steam generating arrangements	D06F 39/40
Laundry conditioning arrangements	D06F 58/203
Steam generators per se	F22B 1/28

D06F 33/68

of the sequence of washing and drying operations

Definition statement

This place covers:

Control methods or control arrangements for washer-dryers having the purpose of controlling the sequence of washing and drying operations.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
Timing arrangements	D06F 34/06
Changing sequence of operational steps; carrying out additional operational steps; Modifying operational steps, e.g. by extending duration of steps	D06F 2105/52

D06F 33/69

Control of cleaning or disinfection of washer-dryer parts, e.g. of tubs

Definition statement

This place covers:

Control methods or control arrangements for cleaning or disinfecting washer-dryer parts, e.g. the condenser, air duct, etc.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
Arrangements for disinfecting the tub or the drum	D06F 35/008
Lint collecting arrangements	D06F 58/22

Special rules of classification

Control methods for disinfecting the clothes or the washing fluid are generally classified in [D06F 35/00](#); [D06F 35/001](#); [D06F 35/004](#); [D06F 37/00](#); [D06F 39/00](#) and, if applicable, also in the group concerning the item on which the disinfecting device is mounted (e.g. the detergent drawer, the gasket, the water pump, the tub etc.).

Cleaning of the lint collecting arrangements is classified in [D06F 58/45](#).

Methods for disinfecting the tub or the drum are classified in [D06F 35/008](#).

D06F 33/70**Control of the operating time, e.g. reduction of overall operating time****Definition statement**

This place covers:

Control methods or control arrangements concerning to the operating time, e.g. reduction of overall operating time.

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
Timing arrangements	D06F 34/06
Control of the operating time for laundry dryers	D06F 58/46
Time settings	D06F 2101/14
Time, e.g. duration	D06F 2103/38
Remaining operation time; Remaining operational cycles	D06F 2105/56

D06F 33/72**Control of the energy or water consumption****Definition statement**

This place covers:

The control of individual operational steps concerning the reduction of energy or water consumption.

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
Arrangements for the recovery of water in laundry washing machines	D06F 39/20
Arrangements for the recovery of energy in laundry washing machines	D06F 39/30

D06F 33/74

**Responding to irregular working conditions, e.g. malfunctioning of pumps
(safety arrangements for washing machines [D06F 37/42](#))**

Definition statement

This place covers:

The control of individual operational steps concerning the prevention and early detection of potentially dangerous or abnormal working conditions, which might cause damage to the user and/or to the machine, e.g. clogging of the drain pump, water leaks, electric malfunctions, etc.

References**Limiting references**

This place does not cover:

Safety arrangements for washing machines	D06F 37/42
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
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D06F 33/76

Preventing or reducing imbalance or noise

Definition statement

This place covers:

The control of individual operational steps for reducing and/or preventing imbalance or noise.

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Washing machines with receptacles, e.g. perforated, having a rotary movement, e.g. oscillatory movement, the receptacle serving both for washing and centrifugally draining and having further drying means, e.g. using hot air	D06F 25/00
Control of washing machines characterised for preventing or reducing imbalance or noise	D06F 33/48
Arrangements for detecting or measuring imbalance	D06F 34/16
Mountings, e.g. resilient mountings, for the rotary receptacle, motor, tub, or casing; Preventing or damping vibrations	D06F 37/20
Damping vibrations by displacing, supplying or ejecting a material, e.g. liquid, into or from counterbalancing pockets (in machines with a receptacle rotating or oscillating about a horizontal axis)	D06F 37/225

Damping vibrations by displacing, supplying or ejecting a material, e.g. liquid, into or from counterbalancing pockets (in machines with a receptacle rotating or oscillating about a vertical axis)	D06F 37/245
Parameters of unbalance or noise monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers	D06F 2103/26

D06F 34/00

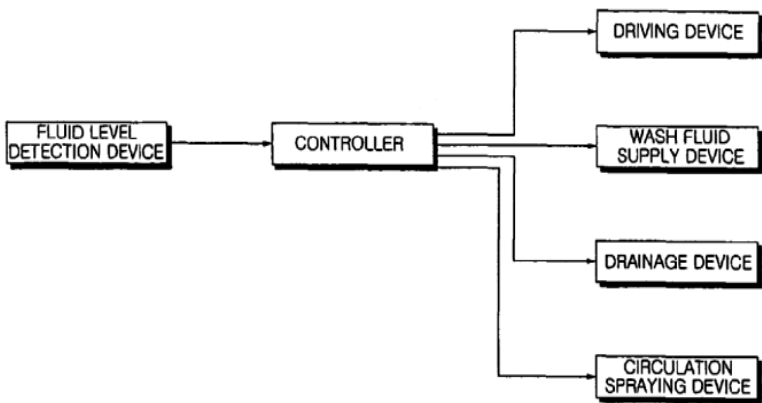
Details of control systems for washing machines, washer-dryers or laundry dryers

Definition statement

This place covers:

Details of control systems for washing machines, washer-dryers or laundry dryers. See also definition statement and examples shown under [D06F 33/30](#) and [D06F 33/50](#).

Illustrative example of subject matter classified in this group.



D06F 34/04

Signal transfer or data transmission arrangements

Definition statement

This place covers:

Details of control systems for washing machines, washer-dryers or laundry dryers, relating to wired signal transfer or data transmission arrangements.

D06F 34/05

for wireless communication between components, e.g. for remote monitoring or control

Definition statement

This place covers:

Details of control systems for washing machines, washer-dryers or laundry dryers, relating to wireless signal transfer or data transmission arrangements, e.g. WIFI, Bluetooth, RF, NFC, optic, etc.

Illustrative example of subject matter classified in this group.

**D06F 34/06**

Timing arrangements

Definition statement

This place covers:

Details of control systems for washing machines, washer-dryers or laundry dryers, concerning timing.

References**Informative references**

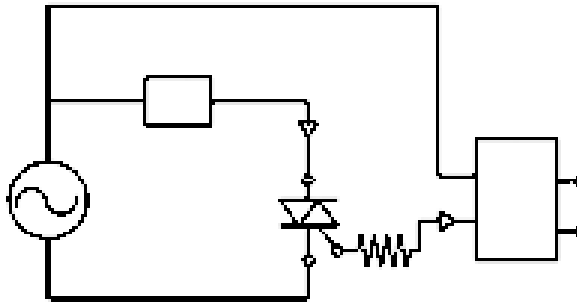
Attention is drawn to the following places, which may be of interest for search:

User input for the control of domestic laundry washing machines, washer-dryers or laundry dryers – time settings	D06F 2101/14
Parameters monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers - time, e.g. duration	D06F 2103/38
Systems or parameters controlled or affected by the control systems of washing machines, washer-dryers or laundry dryers - starting machine operation, e.g. delayed start or re-start after power cut	D06F 2105/50
Systems or parameters controlled or affected by the control systems of washing machines, washer-dryers or laundry dryers - changing sequence of operational steps; carrying out additional operational steps; modifying operational steps, e.g. by extending duration of steps	D06F 2105/52
Systems or parameters controlled or affected by the control systems of washing machines, washer-dryers or laundry dryers - remaining operation time; remaining operational cycles	D06F 2105/56

D06F 34/08**Control circuits or arrangements thereof****Definition statement**

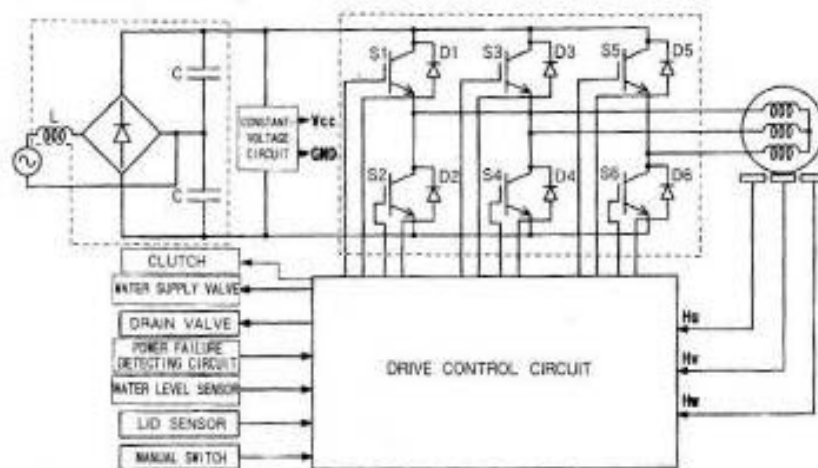
This place covers:

Illustrative example of subject matter classified in this group.

**D06F 34/10****Power supply arrangements, e.g. stand-by circuits****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group.



D06F 34/14**Arrangements for detecting or measuring specific parameters****Definition statement**

This place covers:

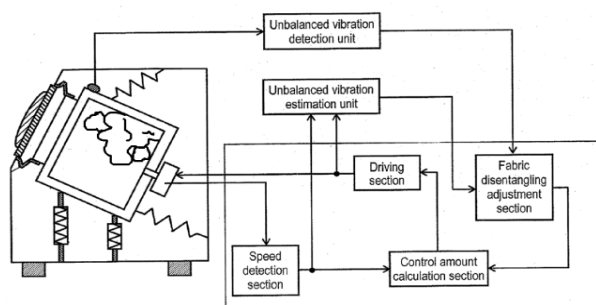
Details of control systems for washing machines, washer-dryers or laundry dryers relating to the detection of specific parameters.

D06F 34/16**Imbalance****Definition statement**

This place covers:

Details of control systems for washing machines, washer-dryers or laundry dryers relating to the detection of imbalance.

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

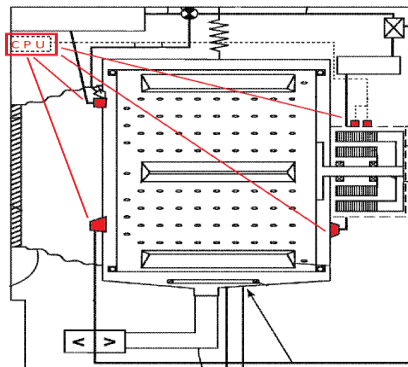
Control of washing machines characterised for preventing or reducing imbalance or noise	D06F 33/48
Control of washer-dryers for preventing or reducing imbalance or noise	D06F 33/76
Mountings, e.g. resilient mountings, for the rotary receptacle, motor, tub, or casing; Preventing or damping vibrations	D06F 37/20
Damping vibrations by displacing, supplying or ejecting a material, e.g. liquid, into or from counterbalancing pockets (in machines with a receptacle rotating or oscillating about a horizontal axis)	D06F 37/225
Damping vibrations by displacing, supplying or ejecting a material, e.g. liquid, into or from counterbalancing pockets (in machines with a receptacle rotating or oscillating about a vertical axis)	D06F 37/245
Parameters of unbalance or noise monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers	D06F 2103/26

D06F 34/18**Condition of the laundry, e.g. nature or weight****Definition statement**

This place covers:

Details of control systems for washing machines, washer-dryers or laundry dryers, relating to the detection of the condition of the laundry, comprising both the sensors and their control arrangements.

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

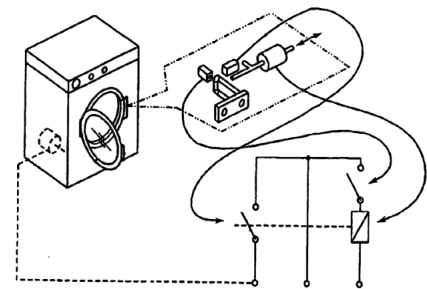
Parameters monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers - characteristics of laundry or load	D06F 2103/02
Parameters monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers - quantity, e.g. weight or variation of weight	D06F 2103/04
Parameters monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers - type or material	D06F 2103/06
Parameters monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers - humidity / temperature	D06F 2103/08 - D06F 2103/12

D06F 34/20**Parameters relating to constructional components, e.g. door sensors****Definition statement**

This place covers:

Details of control systems for washing machines, washer-dryers or laundry dryers, relating to the detection of specific parameters of constructional components of the appliance, e.g. checking the position of the door, lint filter, detergent drawer, etc.

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Security means for doors of drums rotating about a horizontal or inclined axis	D06F 37/10
Security means for doors of drums rotating about a vertical axis	D06F 37/18
Security means for doors of tubs	D06F 37/28
Driving arrangements for automatic drum positioning	D06F 37/302
Safety arrangements, e.g. for stopping rotation of the receptacle upon opening of the casing door	D06F 37/42
Devices for adding soap or other washing agent	D06F 39/02
Filtering arrangements	D06F 39/10
Casings	D06F 39/12
Securing means for doors of casings	D06F 39/14
General details of domestic laundry dryers	D06F 58/20
Lint collecting arrangements	D06F 58/22
Opening or locking status of doors	D06F 2103/40

Special rules of classification

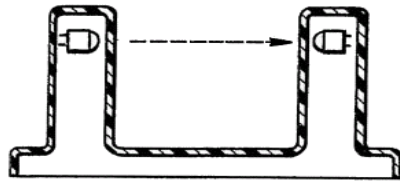
Details concerning safety arrangements are classified in [D06F 37/42](#); safety arrangements for preventing water damage in [D06F 39/081](#); preventing and responding to irregular working conditions in [D06F 33/47](#).

D06F 34/22**Condition of the washing liquid, e.g. turbidity****Definition statement**

This place covers:

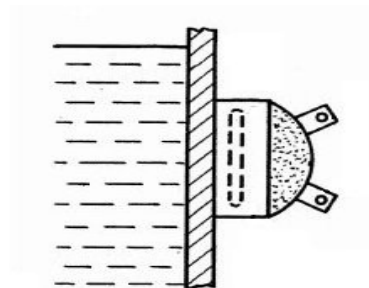
Details of control systems for washing machines or washer-dryers, relating to the detection of the condition of the washing liquid, e.g. devices for measuring and/or controlling the detergent concentration, water hardness, etc., comprising both the sensors and their control arrangements.

Illustrative example of subject matter classified in this group.

**D06F 34/24****Liquid temperature****Definition statement**

This place covers:

Details of control systems for washing machines or washer-dryers, relating to the detection of the temperature of the washing liquid, e.g. thermostats, etc., comprising both the sensors and their control arrangements.



Illustrative example of subject matter classified in this group.

References**Informative references**

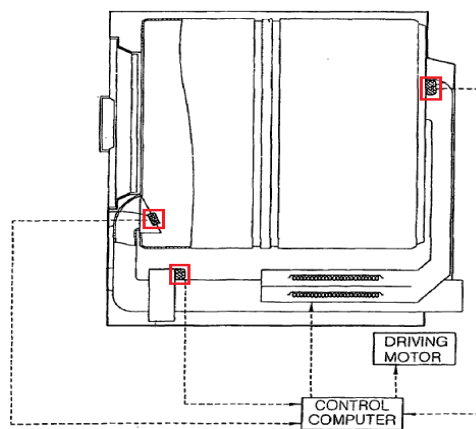
Attention is drawn to the following places, which may be of interest for search:

Temperature measuring arrangements for dishwashers	A47L 15/4287
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D06F 34/26**Condition of the drying air, e.g. air humidity or temperature****Definition statement***This place covers:*

Details of control systems for washer-dryers or laundry dryers, relating to the detection of the condition of the drying air, e.g. humidity sensors, temperature sensors, pressure sensors, etc., comprising both the sensors and their control arrangements.

Illustrative example of subject matter classified in this group.

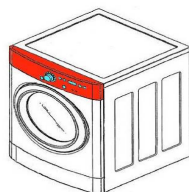
**D06F 34/28**

**Arrangements for program selection, e.g. control panels therefor;
Arrangements for indicating program parameters, e.g. the selected program or
its progress**

Definition statement*This place covers:*

Details of control systems for washer-dryers or laundry dryers, relating to arrangements for program selection and/or visualization.

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Drying processes in domestic laundry dryers	D06F 58/30
Alarm-clock-controlled mechanisms for coffee or tea making apparatus	A47J 31/52
Arrangements for program selection in dishwashers, e.g. control panels	A47L 15/4293
Control devices for stoves, e.g. control panels	F24C 7/082
Arrangement or mounting of control or safety devices for refrigerators	F25D 29/00
Indicating or measuring liquid level, in general	G01F 23/00
Light guides	G02B 6/00
Electric programme-control systems in general	G05B 19/02
Electric programme-control systems using selector switches	G05B 19/10
Input and output arrangements for electrical digital data processing	G06F 3/00
Digitisers, e.g. for touch screens or touch pads, characterised by the transducing means	G06F 3/041
Arrangements for transmitting signals characterised by the use of a wireless link	G08C 17/00
Circuit arrangements for providing remote indication of network conditions	H02J 13/00
Optical indicating means for TV sets and radios	H03J 1/04

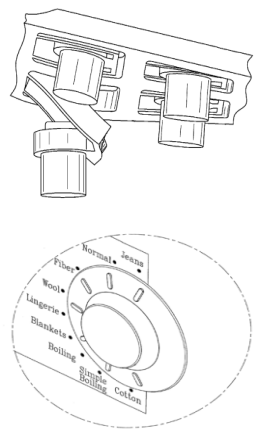
D06F 34/30

characterised by mechanical features, e.g. buttons or rotary dials

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



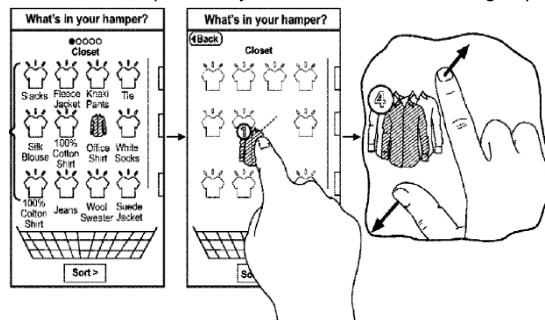
D06F 34/32

characterised by graphical features, e.g. touchscreens

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

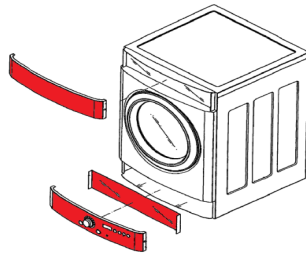
**D06F 34/34**

characterised by mounting or attachment features, e.g. detachable control panels or detachable display panels

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**D06F 35/00**

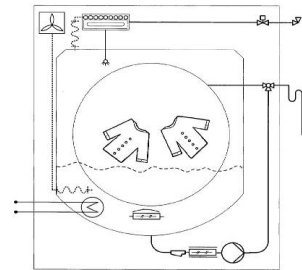
Washing machines, apparatus, or methods not otherwise provided for

Definition statement

This place covers:

Washing machines implementing washing concepts and/or characterised by technical features which cannot be classified elsewhere.

Illustrative example of subject matter classified in this group.



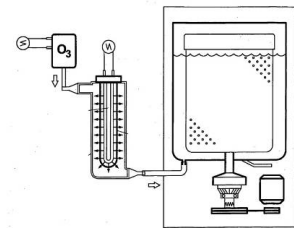
D06F 35/001

{using ozone}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Dishwashers / Sterilizing arrangements using ozone	A47L 15/424
Preparation of ozone in general	C01B 13/10

D06F 35/002

{using bubbles}

Definition statement

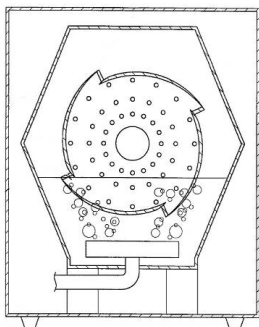
This place covers:

Washing machines, wherein the washing action is performed by gas bubbles getting in contact with the articles to be washed.

D06F 35/002 (continued)
Definition statement

CPC - D06F - 2024.05

Illustrative example of subject matter classified in this group.

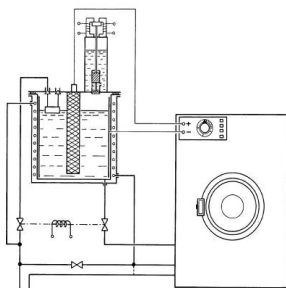


D06F 35/003
{using electrochemical cells}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



References

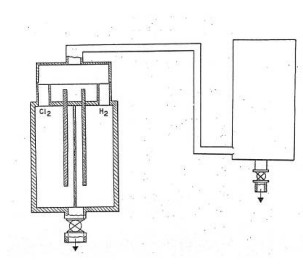
Informative references

Attention is drawn to the following places, which may be of interest for search:

Dishwashers / Sterilizing arrangements using electrochemical cells.	A47L 15/424
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D06F 35/004**{using chlorine generators}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

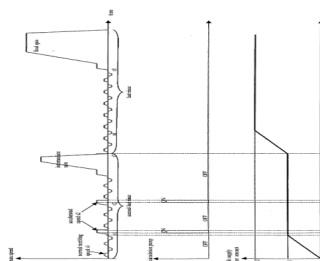
**D06F 35/005****{Methods for washing, rinsing or spin-drying}****Definition statement***This place covers:*

Washing methods (per se) explicitly comprising a washing, a rinsing, and a spinning phase.

D06F 35/006**{for washing or rinsing only}****Definition statement***This place covers:*

Washing methods (per se) explicitly related to the washing and rinsing phases only.

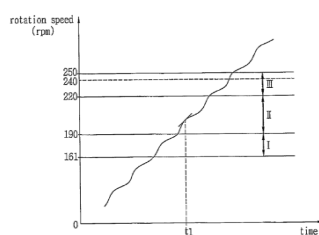
Illustrative example of subject matter classified in this group.



D06F 35/007**{for spin-drying only}****Definition statement***This place covers:*

Washing methods (per se) related to the spinning phase only.

Illustrative example of subject matter classified in this group.

**Special rules of classification**

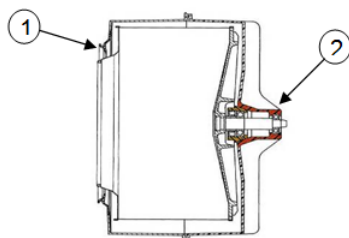
Pure hardware should not be classified here.

D06F 35/008**{for disinfecting the tub or the drum}****Special rules of classification**

Methods for disinfecting the clothes or the washing fluid should not be classified here.

D06F 37/00**Details specific to washing machines covered by groups [D06F 21/00](#) - [D06F 25/00](#)****Definition statement***This place covers:*

Bearing supports (see figure - reference sign (1)).



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Details of more general application	D06F 39/00
Details concerning drying only	D06F 58/00

D06F 37/02

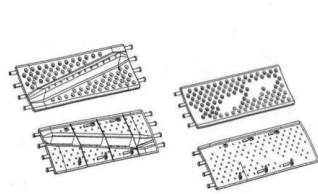
Rotary receptacles, e.g. drums

Definition statement

This place covers:

Details of the drum surface for drums having both horizontal and vertical axes.

Illustrative example of subject matter classified in this group.



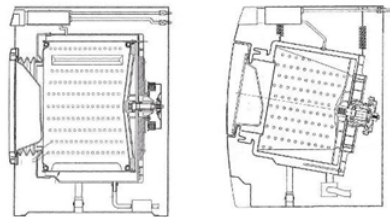
D06F 37/04

adapted for rotation or oscillation about a horizontal or inclined axis

Definition statement

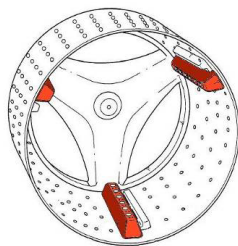
This place covers:

Illustrative example of subject matter classified in this group.



D06F 37/06**Ribs, lifters, or rubbing means forming part of the receptacle****Definition statement***This place covers:*

Illustrative example of subject matter classified in this place:

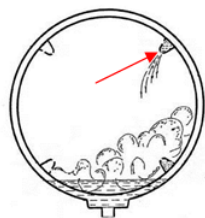
**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Drums adapted for rotation about a vertical axis, characterised by the shape of the side wall	D06F 37/12
Construction of the inside surface of the drum	D06F 37/14
Projections or partitions	D06F 37/16

D06F 37/065**{ribs or lifters having means for circulating the washing liquid}****Definition statement***This place covers:*

Ribs/lifters comprising water passages (e.g. holes).

Illustrative example of subject matter classified in this group.

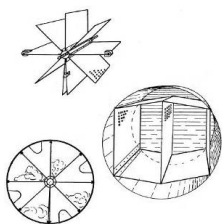


D06F 37/08**Partitions****Definition statement**

This place covers:

Shoe holders.

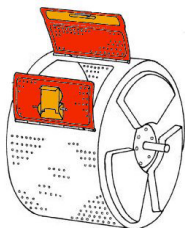
Illustrative example of subject matter classified in this group.

**D06F 37/10****Doors; Securing means therefor****Definition statement**

This place covers:

Only doors for "top-loaders" (e.g. drum doors).

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Doors hinged to the tub	D06F 37/28.
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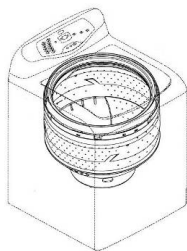
D06F 37/12

adapted for rotation or oscillation about a vertical axis

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



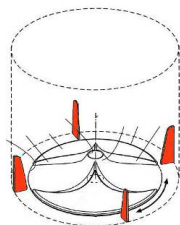
D06F 37/14

Ribs or rubbing means forming part of the receptacle

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



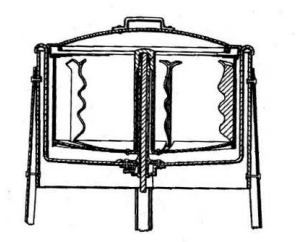
D06F 37/145

{ribs or lifters having means for circulating the washing liquid}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



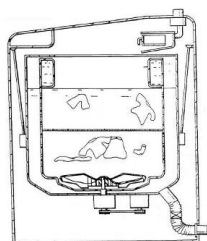
D06F 37/16

Partitions

Definition statement

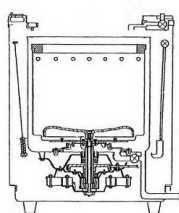
This place covers:

Illustrative example of subject matter classified in this group.

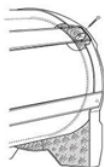


D06F 37/18**Doors or covers; Securing means therefor****Definition statement***This place covers:*

Drum doors for drums having a vertical axis.

**D06F 37/20****Mountings, e.g. resilient mountings, for the rotary receptacle, motor, tub or casing; Preventing or damping vibrations****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Counterweights mounted to the tub or mountings therefor	D06F 37/265
Vibration dampers having rectilinearly moving Friction surfaces;	F16F 7/08
Vibration dampers of the cylinder piston type.	F16F 7/09

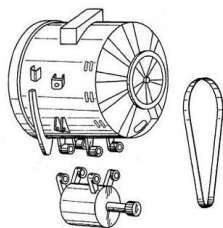
D06F 37/206

{Mounting of motor}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 37/22

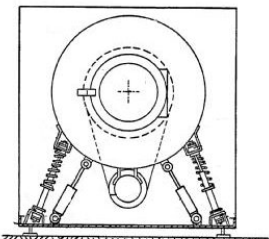
in machines with a receptacle rotating or oscillating about a horizontal axis

Definition statement

This place covers:

Dampers mounting and configuration.

Illustrative example of subject matter classified in this group.



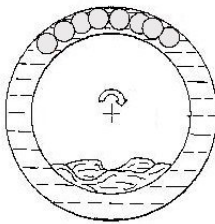
D06F 37/225

{Damping vibrations by displacing, supplying or ejecting a material, e.g. liquid, into or from counterbalancing pockets}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Correcting or balancing weights by using rolling bodies

F16F 15/363

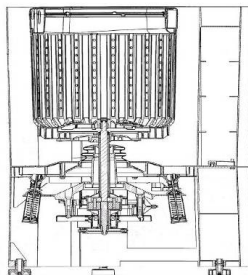
D06F 37/24

in machines with a receptacle rotating or oscillating about a vertical axis

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



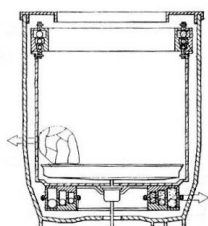
D06F 37/245

{Damping vibrations by displacing, supplying or ejecting a material, e.g. liquid, into or from counterbalancing pockets}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**D06F 37/26****Casings; Tubs****Definition statement**

This place covers:

Tubs (finished products).

References**Limiting references**

This place does not cover:

Casings	D06F 39/12
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Dishwashers / Details of the tub	A47L 15/4246
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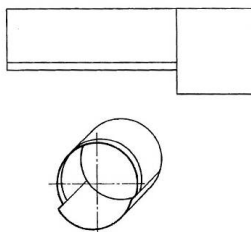
D06F 37/261

{Tubs made by a specially selected manufacturing process or characterised by their assembly from elements}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



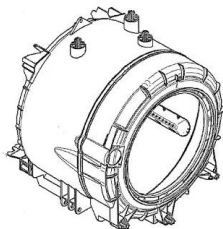
D06F 37/262

{made of plastic material, e.g. by injection moulding}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



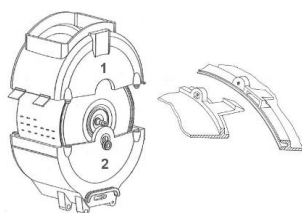
D06F 37/263

{assembled from at least two elements connected to each other; Connecting or sealing means therefor}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



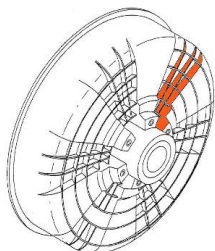
D06F 37/264

{Tubs provided with reinforcing structures, e.g. ribs, inserts, braces}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 37/265

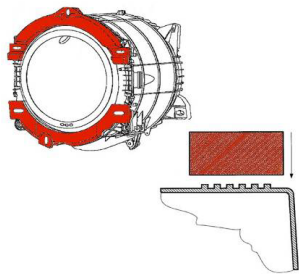
{Counterweights mounted to the tub; Mountings therefor}

Definition statement

This place covers:

Water pockets.

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Polymeric concrete compositions	C04B 26/06
Mortars or concrete compositions	C04B 28/00

Special rules of classification

Bearings and bearing supports are not to be classified here.

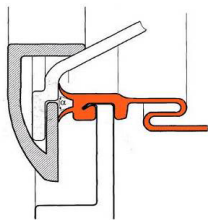
D06F 37/266

{Gaskets mounted between tub and casing around the loading opening}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 37/267

{Tubs specially adapted for mounting thereto components or devices not provided for in preceding subgroups ([D06F 37/206](#) takes precedence)}

Definition statement

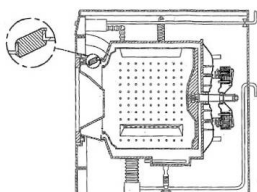
This place covers:

Special components mounted to the tub.

D06F 37/267 (continued)
Definition statement

CPC - D06F - 2024.05

Illustrative example of subject matter classified in this group.

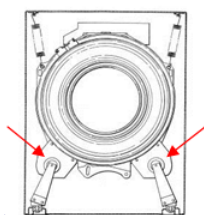


D06F 37/268
{for suspension devices}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

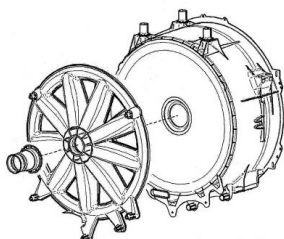


D06F 37/269
{for the bearing of the rotary receptacle}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 37/28

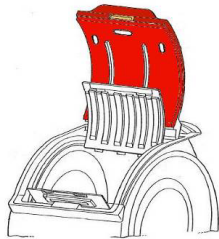
Doors; Security means therefor

Definition statement

This place covers:

Doors hinged to the tub.

Illustrative example of subject matter classified in this group.



References

Limiting references

This place does not cover:

Doors hinged to the casing.

D06F 37/30

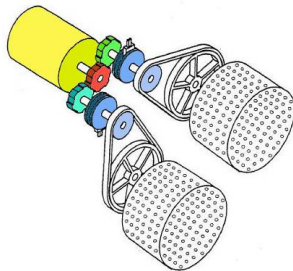
Driving arrangements (control circuits or arrangements [D06F 34/08](#))

Definition statement

This place covers:

Gears and motors (pure hardware).

Illustrative example of subject matter classified in this group.



References**Limiting references**

This place does not cover:

Control circuits or arrangements	D06F 34/08
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D06F 37/302

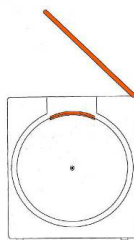
{Automatic drum positioning}

Definition statement

This place covers:

Automatic drum positioning devices for top-loaders, wherein the drum doors are aligned with the casing door in order to empty the drum.

Illustrative example of subject matter classified in this group.

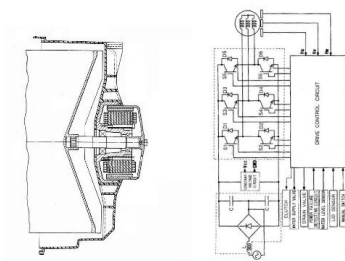
**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Electric components	H02K 11/21
Motors or generators.	H02K 29/08

D06F 37/304**{Arrangements or adaptations of electric motors}****Definition statement***This place covers:*

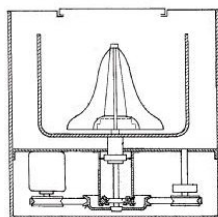
Illustrative example of subject matter classified in this group.

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Electric motors as such;	H02K 7/14
Combination of a motor and a further component, e.g. a circuit.	H02K 11/00

D06F 37/308**{Hydraulic or pneumatic speed control; Arrangements or adaptations of hydraulic or pneumatic motors}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.



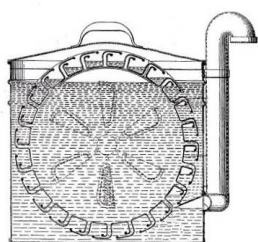
D06F 37/32

for rotating the receptacle at one speed only {([D06F 37/304](#), [D06F 37/308](#) take precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



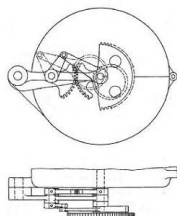
D06F 37/34

in opposite directions, e.g. oscillating

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



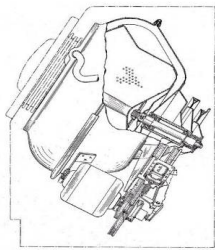
D06F 37/36

for rotating the receptacle at more than one speed {([D06F 37/304](#), [D06F 37/308](#) take precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



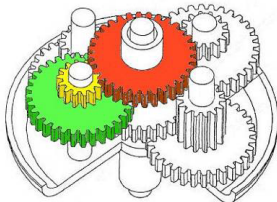
D06F 37/38

in opposite directions

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



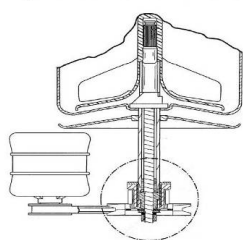
D06F 37/40

for driving the receptacle and an agitator or impeller, e.g. alternatively
{{(D06F 37/304, D06F 37/308 take precedence)}}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Washing machines having receptacles,stationary for washing purposes,with agitators therein contacting the articles being washed	D06F 13/00
Washing machines having receptacles,stationary for washing purposes, wherein the washing action is effected solely by circulation or agitation of the washing liquid	D06F 17/00

D06F 37/42

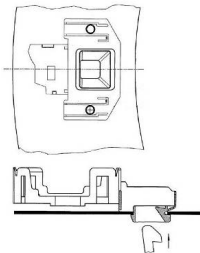
Safety arrangements, e.g. for stopping rotation of the receptacle upon opening of the casing door

Definition statement

This place covers:

- Safety devices for avoiding leakage;
- Door locks for all kind of washing machines.

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Automatic drum positioning	D06F 37/302
Door locks for dishwashers	A47L 15/4259

D06F 39/00

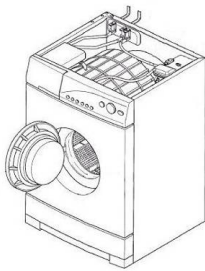
Details of washing machines not specific to a single type of machines covered by groups [D06F 9/00](#) - [D06F 27/00](#) (control of washing machines [D06F 33/00](#), [D06F 34/00](#))

Definition statement

This place covers:

General details of washing machines, i.e. details that can be applied to several types of the machines covered by groups [D06F 9/00](#) - [D06F 27/00](#)

Illustrative example of subject matter classified in this group.



References

Limiting references

This place does not cover:

Control of operations performed in washing machines	D06F 33/00
Details of control systems for washing machines	D06F 34/00

Special rules of classification

Details of washing machines specifically adapted to a single type of the machines covered by groups [D06F 9/00](#) - [D06F 27/00](#) are covered by the group corresponding to the machine type.

D06F 39/001

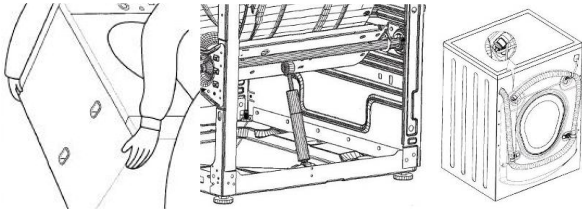
**{Arrangements for transporting, moving, or setting washing machines;
Protective arrangements for use during transport (transport in general [B65](#))}**

Definition statement

This place covers:

Mechanical means for temporarily fixing the suspended part of the washing machine (e.g. the tub) to its stationary part (e.g. the frame).

Illustrative example of subject matter classified in this group.



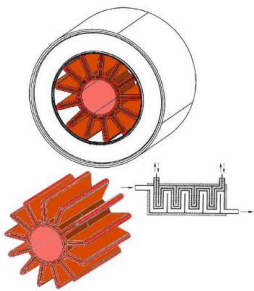
D06F 39/006 (Frozen)

{Recovery arrangements, e.g. for the recovery of energy or water}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



References

Informative references

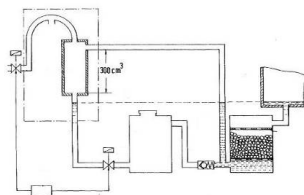
Attention is drawn to the following places, which may be of interest for search:

Dishwashers / Recovery arrangements for the recovery of energy or water.	A47L 15/4291
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D06F 39/007**{Arrangements of water softeners}****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

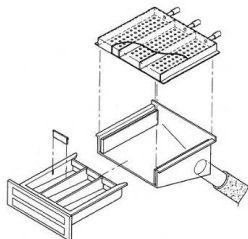
Dishwashers / Water softeners	A47L 15/4229
Dishwashers / Details of the salt containe	A47L 15/4231

D06F 39/02**Devices for adding soap or other washing agents****Definition statement**

This place covers:

Multiple dosing systems.

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Dishwashers / Devices for adding cleaning agents	A47L 15/44
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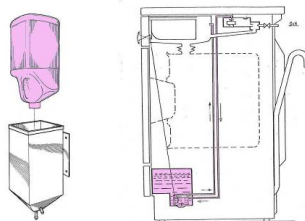
D06F 39/022

{in a liquid state ([D06F 39/024](#) takes precedence)}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Dishwashers / Devices for adding cleaning agents in the form of liquids.	A47L 15/4418
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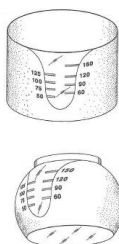
D06F 39/024

{mounted on the agitator or the rotating drum; Free body dispensers}

Definition statement

This place covers:

- Laundry balls for clothes dryers;
- Test sheets for testing the washing performance;
- Colour catcher sheets.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Domestic laundry dryers / Laundry conditioning arrangements	D06F 58/203
---	-----------------------------

Dishwashers / Detachable devices	A47L 15/4445
Free body dispensers	C11D 17/046

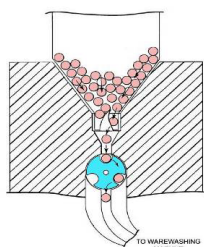
D06F 39/026

{the powder or tablets being added directly, e.g. without the need of a flushing liquid}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



References

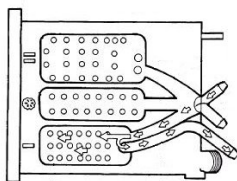
Informative references

Attention is drawn to the following places, which may be of interest for search:

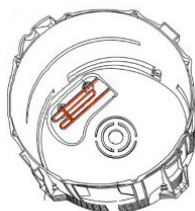
Dishwashers / Devices for adding cleaning agents	A47L 15/44
Dishwashers / Devices for adding cleaning agents by tipping containers;	A47L 15/4409
Detergent tablets	C11D 17/0039
Detergent tablets	C11D 17/0073

D06F 39/028**{Arrangements for selectively supplying water to detergent compartments}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**D06F 39/04****Heating arrangements****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Dishwashers / water-heater arrangements

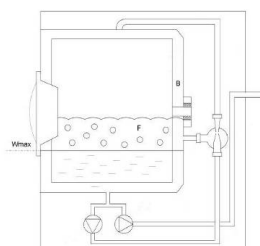
[A47L 15/4285](#)**Special rules of classification**Steam devices specifically designed for washing machines have to be classified in [D06F 39/40](#) only.

D06F 39/06**Arrangements for preventing or destroying scum****Definition statement**

This place covers:

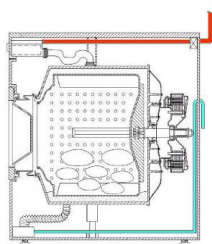
Sensors.

Illustrative example of subject matter classified in this group.

**D06F 39/08****Liquid supply or discharge arrangements (supply of soap or other washing agents [D06F 39/02](#))****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group.

**References****Limiting references**

This place does not cover:

Supply of soap or other washing agents	D06F 39/02
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Dishwashers / Water supply / recirculation arrangements	A47L 15/4214
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Sensors	G01M 3/3245 , G01M 3/186 , G05D 7/01
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D06F 39/081

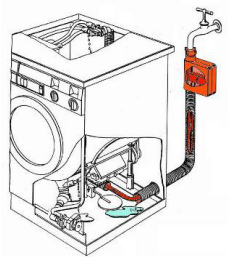
{Safety arrangements for preventing water damage}

Definition statement

This place covers:

Water stopping devices (safety devices mounted to the tap).

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Dishwashers / Safety arrangements for preventing water damage	A47L 15/421
Investigating fluid-tightness of structures / by detecting presence of fluid at the leakage point	G01M 3/04

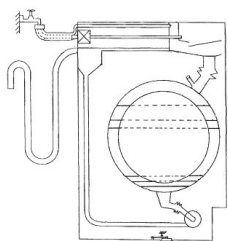
D06F 39/082

{detecting faulty draining operations, e.g. filter blockage, faulty pump}

Definition statement

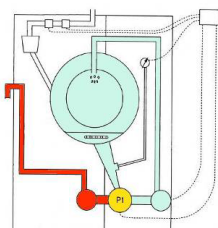
This place covers:

Illustrative example of subject matter classified in this group.



D06F 39/083**{Liquid discharge or recirculation arrangements}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

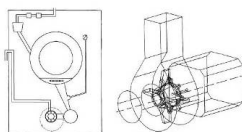
**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Control of flow / without auxiliary power

[G05D 7/01](#)**D06F 39/085****{Arrangements or adaptations of pumps}****Definition statement***This place covers:*

Pumps specially adapted for washing machines.

Illustrative example of subject matter classified in this group.



References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

Dishwashers / Recirculation or discharge pumps	A47L 15/4225
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D06F 39/086

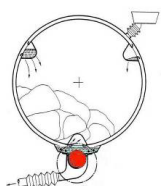
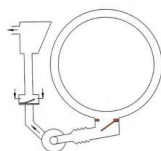
{Arrangements for avoiding detergent wastage in the discharge conduit}

Definition statement

This place covers:

Non-return valves (e.g. ball or flap valves).

Illustrative example of subject matter classified in this group.

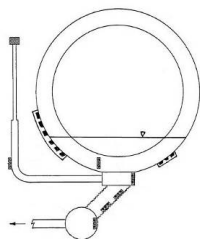
**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Valves in general	F16K
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D06F 39/087**{Water level measuring or regulating devices}****Definition statement***This place covers:*

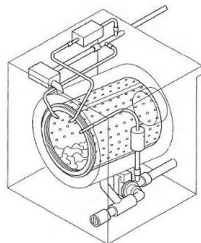
Illustrative example of subject matter classified in this group.

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

From separate hot and cold water inlets	D06F 2105/04
Dishwashers / Water level measuring devices	A47L 15/4244

D06F 39/088**{Liquid supply arrangements}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

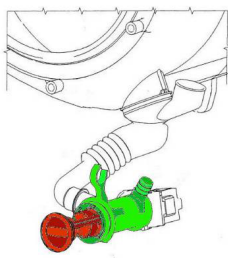
Dishwashers, Water supply, recirculation arrangements	A47L 15/4214
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D06F 39/10**Filtering arrangements****Definition statement**

This place covers:

Filters disposed in the water circuit.

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

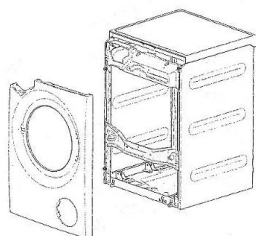
Dishwashers / Water filters;	A47L 15/4202
Dishwashers / Flat filters	A47L 15/4204
Dishwashers / Tubular filters	A47L 15/4206
Dishwashers / Filters / Arrangements for avoiding clogging	A47L 15/4208

D06F 39/12**Casings; Tubs****Definition statement**

This place covers:

Casings.

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Tubs	D06F 37/26
Kitchen cabinets / Worktops	A47B 77/022
Dishwasher / Details of the casing	A47L 15/4251
Domestic plumbing installations / Sinks	E03C 1/184

D06F 39/125

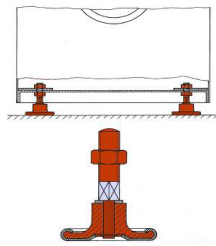
{Supporting arrangements for the casing, e.g. rollers or legs}

Definition statement

This place covers:

Pedestals.

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Furniture / Adjustable feet;	A47B 91/02
Furniture / Adjustable feet having screw means;	A47B 91/022
Dishwasher / details of the casing / Rollers or supporting legs	A47L 15/4253
Machine casings / Attaching supporting legs on foundations	F16M 7/00
Legs or bases	FTERM-3B155/DA13

D06F 39/14

Doors or covers; Securing means therefor

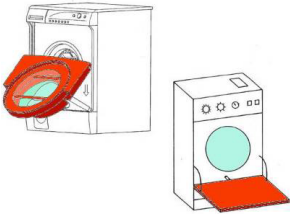
Definition statement

This place covers:

- Doors hinged to the casing for both top- and front-loaders;
- Door hinges;

- Door locks.

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Doors hinged to the drum	D06F 37/10
Doors hinged to the tub	D06F 37/28
Dishwashers / Details of the casing / Locks	A47L 15/4259
Dishwashers / Details of the casing / Hinges	A47L 15/4261

D06F 39/20

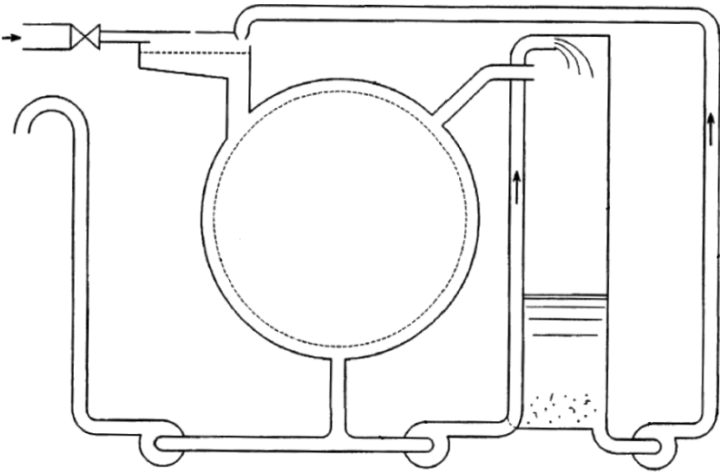
Arrangements for water recovery

Definition statement

This place covers:

Arrangements for the recovery of water used in washing machines, e.g. water storage means or waste water treatment.

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Recovery arrangements for the recovery of energy or water in dishwashers	A47L 15/4291
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D06F 39/30

Arrangements for energy recovery

Definition statement

This place covers:

Arrangements for the recovery of energy used in washing machines, including thermal energy, potential energy, kinetic energy or electric energy.

References

Informative references

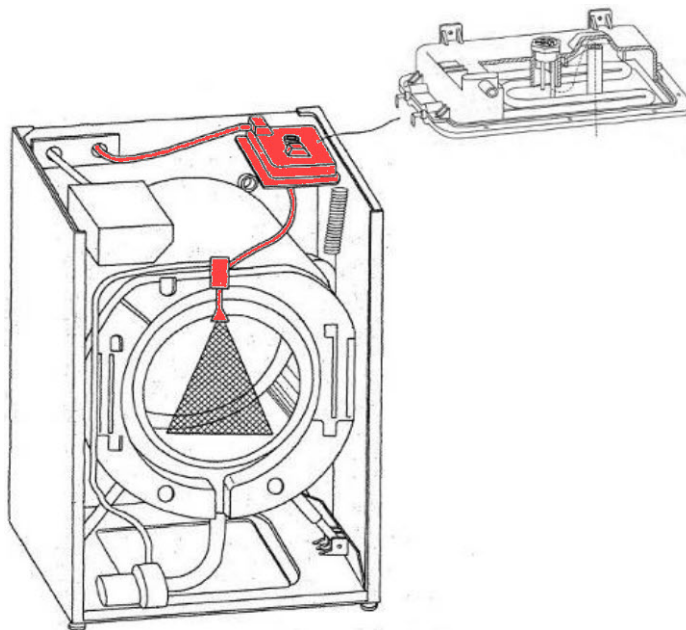
Attention is drawn to the following places, which may be of interest for search:

Recovery arrangements for the recovery of energy or water in dishwashers	A47L 15/4291
--	------------------------------

D06F 39/40**Steam generating arrangements****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group:



The drawing shows a washing machine provided with a steam generating equipment in the top-right rear corner. It is connected to the washing tub and can provide a spray of steam thereto. An enlarged drawing of the steam generating equipment is provided.

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

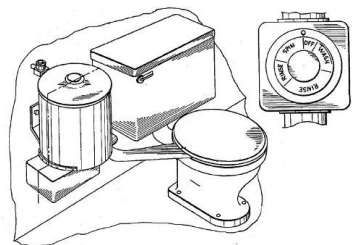
Methods of steam generation in boilers heated electrically with water in reservoirs	F22B 1/284
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D06F 41/00**Rinsing apparatus****Definition statement**

This place covers:

Implements for rinsing and squeezing soiled reusable cloth diapers.

Illustrative example of subject matter classified in this group.



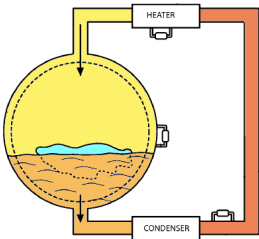
D06F 43/00

Dry-cleaning apparatus {or methods} using volatile solvents
(D06F 9/00 - D06F 41/00 take precedence)

Definition statement

This place covers:
Industrial dry-cleaning machines and dry-cleaning methods.

Illustrative example of subject matter classified in this group.



References

Limiting references

This place does not cover:

Washing machines	D06F 9/00 – D06F 41/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

CO2 cleaning	B08B 7/0021
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D06F 43/002

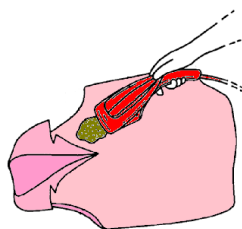
{Spotting apparatus}

Definition statement

This place covers:

Industrial and/or household handheld spot-removing devices

Illustrative example of subject matter classified in this group.



D06F 43/005

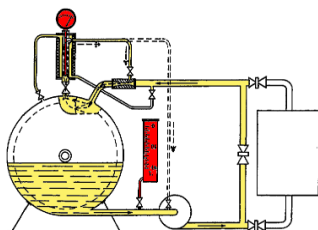
{Solvent condition control devices, e.g. humidity content}

Definition statement

This place covers:

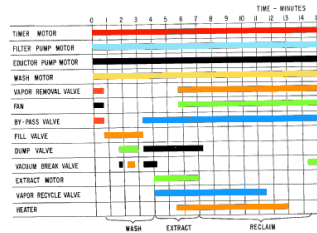
Solvent condition (e.g. humidity) detecting arrangement for industrial dry-cleaning machines.

Illustrative example of subject matter classified in this group.



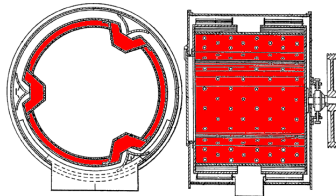
D06F 43/007**{Dry cleaning methods}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**D06F 43/02****having one rotary cleaning receptacle only****Definition statement***This place covers:*

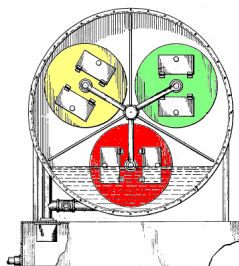
Industrial dry-cleaning machines comprising a single rotary cleaning receptacle.

Illustrative example of subject matter classified in this group.

**D06F 43/04****having more than one rotary cleaning receptacle****Definition statement***This place covers:*

Industrial dry-cleaning machines comprising more than one rotary cleaning receptacle.

Illustrative example of subject matter classified in this group.



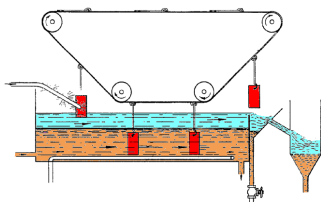
D06F 43/06

wherein the articles to be cleaned are passed through a cleaning chamber or bath

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 43/08

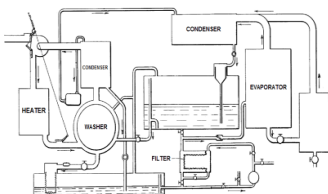
Associated apparatus for handling and recovering the solvents

Definition statement

This place covers:

Solvent recovery devices for industrial dry cleaning machines, wherein the recovery device lies in a separate structure with respect to the dry cleaning machine.

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Separate apparatus for purifying dry-cleaning solvents
--

B01D

D06F 43/081

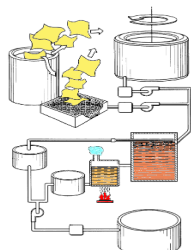
{Reclaiming or recovering the solvent from a mixture of solvent and contaminants, e.g. by distilling}

Definition statement

This place covers:

Solvent reclaiming or recovery arrangements for industrial dry-cleaning machines.

Illustrative example of subject matter classified in this group.



D06F 43/083

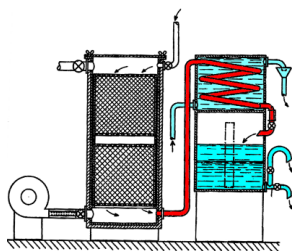
{Condensing arrangements}

Definition statement

This place covers:

Solvent condensing arrangements for industrial dry-cleaning machines.

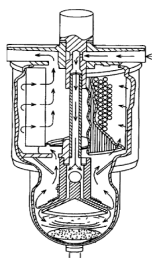
Illustrative example of subject matter classified in this group.



D06F 43/085**{Filtering arrangements; Filter cleaning; Filter-aid powder dispensers}****Definition statement***This place covers:*

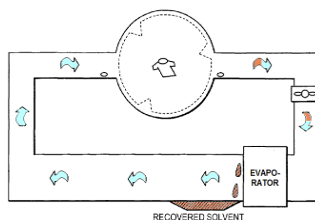
Solvent filtering / filter cleaning arrangements for industrial dry-cleaning machines.

Illustrative example of subject matter classified in this group.

**D06F 43/086****{Recovering the solvent from the drying air current}****Definition statement***This place covers:*

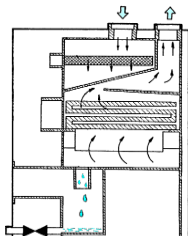
Industrial dry-cleaning machines comprising means for recovering the solvent from the drying air current.

Illustrative example of subject matter classified in this group.

**D06F 43/088****{Condensing arrangements}****Definition statement***This place covers:*

Industrial dry-cleaning machines comprising solvent condensing means for recovering the solvent from the drying air current.

Illustrative example of subject matter classified in this group.



D06F 45/00

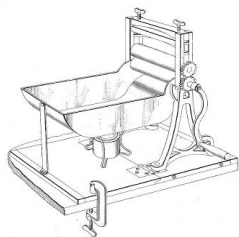
Wringing machines with two or more co-operating rollers; Similar cold-smoothing apparatus

Definition statement

This place covers:

Wringing machines comprising two or more rotary pressing bodies, suitable for removing excess liquids from rags or any equivalent absorbent and pliant items.

Illustrative example of subject matter classified in this group.



D06F 45/02

wherein the pressure is transmitted by spring means

Definition statement

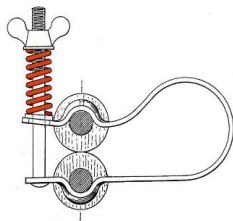
This place covers:

Wringing machines comprising two or more rotary pressing bodies, wherein pressure is exerted via spring means.

D06F 45/02 (continued)
Definition statement

CPC - D06F - 2024.05

Illustrative example of subject matter classified in this group.



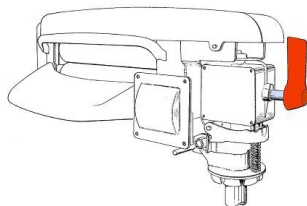
D06F 45/04
with hand-operated quick-release means

Definition statement

This place covers:

Wringing machines comprising two or more rotary pressing bodies and hand-operated pressure release means.

Illustrative example of subject matter classified in this group.



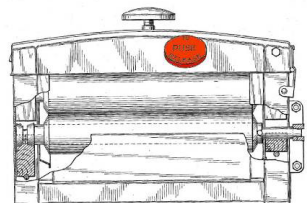
D06F 45/06
with automatically-operated quick-release means

Definition statement

This place covers:

Wringing machines comprising two or more rotary pressing bodies and automatically-operated pressure release means.

Illustrative example of subject matter classified in this group.



D06F 45/08

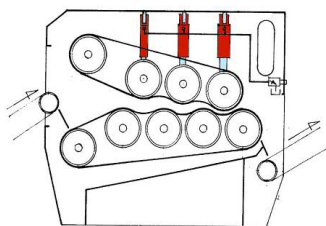
wherein the pressure is applied by fluid means

Definition statement

This place covers:

Wringing machines comprising two or more rotary pressing bodies, wherein pressure is exerted via e.g. hydraulic means.

Illustrative example of subject matter classified in this group.



D06F 45/10

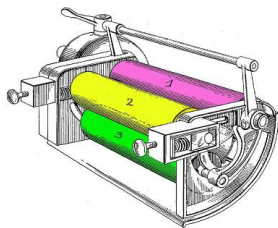
with three or more co-operating rollers

Definition statement

This place covers:

Wringing machines comprising three or more rotary pressing bodies

Illustrative example of subject matter classified in this group.



D06F 45/12

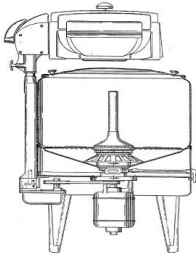
combined with washing machines

Definition statement

This place covers:

Wringing machines (comprising two or more rotary pressing bodies) permanently combined with a washing machine.

Illustrative example of subject matter classified in this group.



D06F 45/14

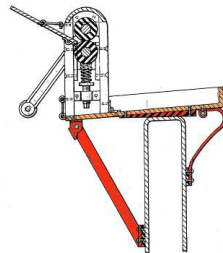
with means for removable attachment to washing machines, tables or other supports

Definition statement

This place covers:

Wringing machines (comprising two or more rotary pressing bodies) removeably attached to a washing machine, table or other support.

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Combined with tables	A47B
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D06F 45/16

Details

Definition statement

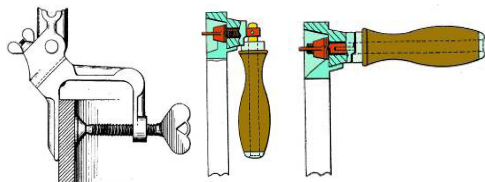
This place covers:

Constructive details belonging to wringing machines comprising two or more rotary pressing bodies.

D06F 45/16 (continued)
Definition statement

CPC - D06F - 2024.05

Illustrative example of subject matter classified in this group.



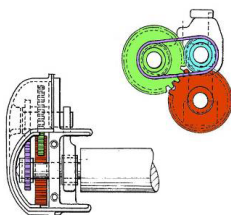
D06F 45/18

Driving or control arrangements for rotation of the rollers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



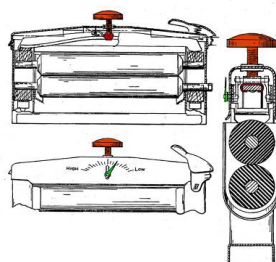
D06F 45/20

Toggle or other lever means for transmitting pressure to the rollers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



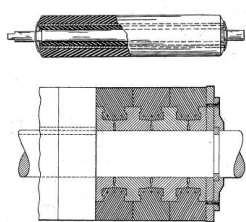
D06F 45/22

Rollers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 45/24

Frames guiding or housing the roller shafts; Stands for supporting the roller framework

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



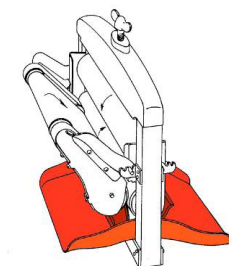
D06F 45/26

Draining boards; Feed or discharge boards; Stripping means

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



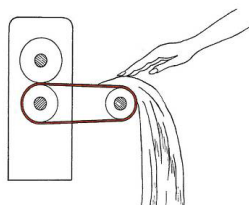
D06F 45/28

Belt arrangements for guiding the linen between the rollers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 47/00

Apparatus of the press type for expelling water from the linen

Definition statement

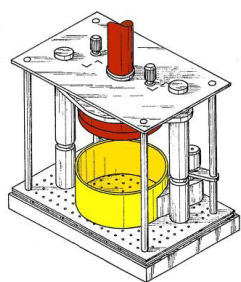
This place covers:

Industrial pressing machines for removing excess liquids from wet clothing.

D06F 47/00 (continued)
Definition statement

CPC - D06F - 2024.05

Illustrative example of subject matter classified in this group.



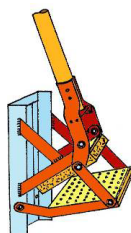
D06F 47/02
by a mechanically-actuated ram

Definition statement

This place covers:

Industrial pressing machines for removing excess liquids from wet clothing, comprising a mechanically-actuated ram.

Illustrative example of subject matter classified in this group.



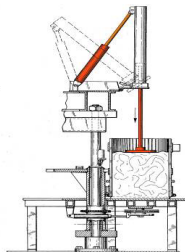
D06F 47/04
by a fluid-actuated ram

Definition statement

This place covers:

Industrial pressing machines for removing excess liquids from wet clothing, comprising a fluid-actuated ram.

Illustrative example of subject matter classified in this group.



D06F 47/06

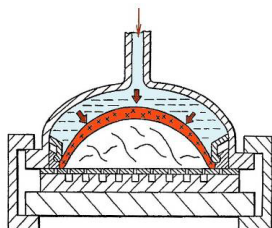
by a flexible diaphragm

Definition statement

This place covers:

Industrial pressing machines for removing excess liquids from wet clothing, comprising a flexible diaphragm.

Illustrative example of subject matter classified in this group.



D06F 47/08

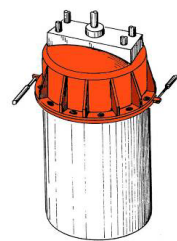
Covers; Securing means therefor

Definition statement

This place covers:

Covers and securing means therefor, specially adapted for sealing industrial pressing machines for removing excess liquids from wet clothing.

Illustrative example of subject matter classified in this group.



D06F 49/00

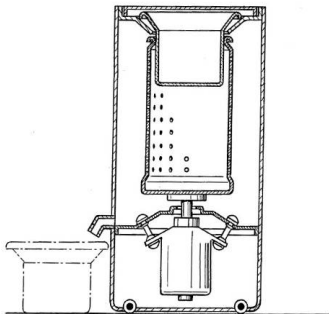
Domestic spin-dryers or similar spin-dryers not suitable for industrial use

Definition statement

This place covers:

Household spin-dryers (general aspects and/or constructive details) which cannot be classified under any hierarchically lower group.

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Centrifuges in general	B04B
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D06F 49/003

{Doors or covers; Safety arrangements}

Definition statement

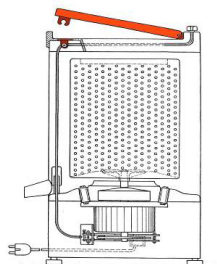
This place covers:

Doors, covers or safety arrangements for household spin-dryers.

D06F 49/003 (continued)
Definition statement

CPC - D06F - 2024.05

Illustrative example of subject matter classified in this group.



D06F 49/006

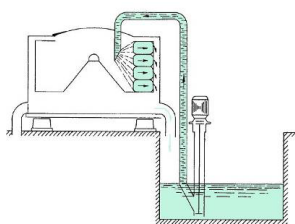
{Rinsing arrangements}

Definition statement

This place covers:

Water spraying arrangements for wetting the laundry during spinning, specially adapted for household spin-dryers.

Illustrative example of subject matter classified in this group.



D06F 49/02

Bowl construction

Definition statement

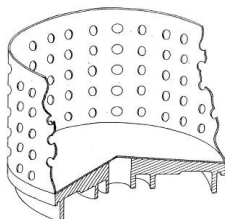
This place covers:

Constructional details of rotary drums for household spin-drying devices.

D06F 49/02 (continued)
Definition statement

CPC - D06F - 2024.05

Illustrative example of subject matter classified in this group.



D06F 49/04

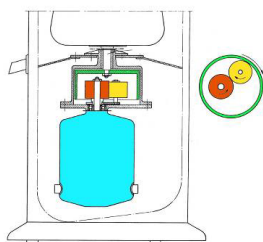
Bowl drive

Definition statement

This place covers:

Driving means of rotary drums for household spin-drying devices.

Illustrative example of subject matter classified in this group.



D06F 49/06

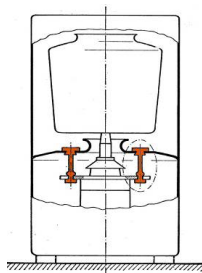
Mountings, e.g. resilient mountings, for the bowl or casings; Preventing or damping vibrations

Definition statement

This place covers:

Vibration damping arrangements for rotary drums of household spin-dryers.

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Damping vibrations in general	F16F
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D06F 49/08

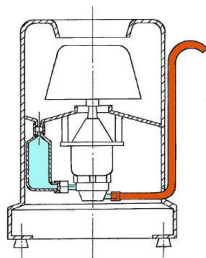
Liquid discharge arrangements

Definition statement

This place covers:

Water draining arrangements for household spin-dryers.

Illustrative example of subject matter classified in this group.



D06F 51/00

Apparatus for expelling or draining water from the linen, not provided for in the preceding groups

Definition statement

This place covers:

Hand operated apparatuses for removing excess liquids from wet clothing.

D06F 51/00 (continued)
Definition statement

CPC - D06F - 2024.05

Illustrative example of subject matter classified in this group.



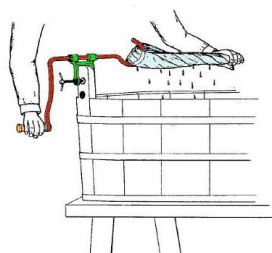
D06F 51/02

by twisting

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



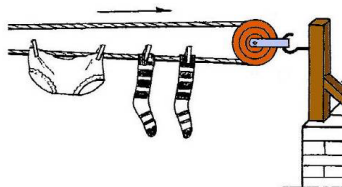
D06F 53/00

Clothes-lines; Supports therefor (drying frames incorporating clothes-lines
[D06F 57/00](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



References

Limiting references

This place does not cover:

Drying frames incorporating clothes-lines	D06F 57/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Supports or holders specially adapted or mounted for storing and repeatedly paying-out and restoring lengths of lines	B65H 75/34
Ropes, cables	D07B

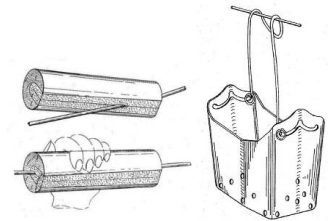
D06F 53/005

{Accessories, e.g. line cleaning devices, line protectors, clothes-pin holders}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 53/02

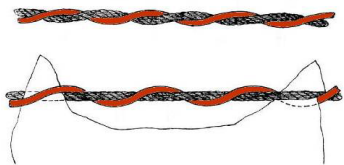
Clothes-lines

Definition statement

This place covers:

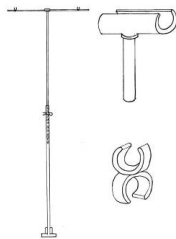
Any line, such as a piece of rope or cable, which is specifically designed and used for hanging clothes thereon for drying the clothes, the line being characterised by features that render the line particularly useful for suspending or hanging clothes thereon to dry.

Illustrative example of subject matter classified in this group:



D06F 53/04**Supports, e.g. poles, props for clothes-lines****Definition statement***This place covers:*

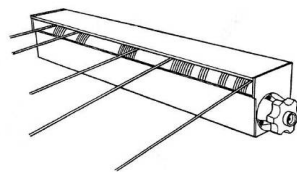
Illustrative example of subject matter classified in this group.

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Poles in general	E04H
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D06F 53/045**{comprising means for storing the clothes-line}****Definition statement***This place covers:*

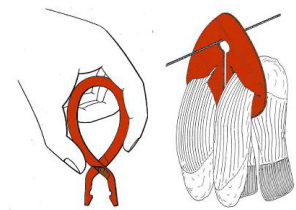
Illustrative example of subject matter classified in this group.



D06F 55/00**Clothes-pegs****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group.

**References****Informative references**

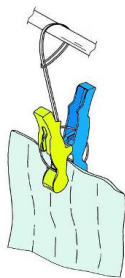
Attention is drawn to the following places, which may be of interest for search:

Devices for keeping articles together during laundering	D06F 95/008
Clothing hangers	A47G 25/14

D06F 55/02**with pivoted {independent} clamping members****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Friction grip fastenings / using pivoting jaws	F16B 2/10
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D06F 57/00

Supporting means, other than simple clothes-lines, for linen or garments to be dried or aired (in combination with means for heating or positive air circulation [D06F 58/00](#); adapted to retain the shape of particular articles being dried [D06F 59/00](#))

References**Limiting references**

This place does not cover:

In combination with means for heating or positive air circulation	D06F 58/00
Adapted to retain the shape of particular articles being dried	D06F 59/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Clothing hangers, e.g. suit hangers	A47G 25/14
Pivotal connections / Arrangements for locking	F16C 11/10
Drying in general	F26B

Special rules of classification

for the classification in [D06F 57/00](#) and its subgroups:

- supporting means mounted on pillars ([D06F 57/02](#) and [D06F 57/04](#)) are not considered "stands". Hence, foldable supporting means mounted on pillars are not classified in the subgroups [D06F 57/08](#) or [D06F 57/10](#) relating to stands only;
- supporting means specially adapted for attachment to walls, ceilings, stoves, or other structures or objects ([D06F 57/12](#) and subgroups) are considered neither "mounted on pillars" nor "stands". Hence, such supporting means are only classified in [D06F 57/12](#) and subgroups even if foldable.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Stand	Supporting means, other than simple clothes-lines, for linen or garments to be dried or aired, comprising more than one leg for standing on the ground and being self-supporting, i.e. without being mounted to the ground or a further support.
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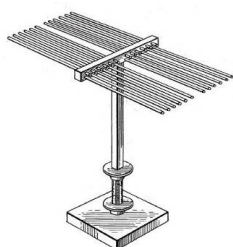
D06F 57/02

mounted on pillars, e.g. rotatably {(sockets or holders for poles or posts
[E04H 12/22](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Sockets or holders for poles or posts	E04H 12/22
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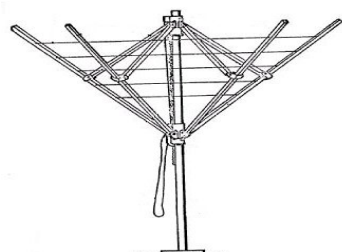
D06F 57/04

and having radial arms, e.g. collapsible

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Umbrellas Parasols	A45B 23/00 , A45B 25/00
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D06F 57/06

comprising vertical members connected by horizontal bars

Definition statement

This place covers:

Supporting means comprising more than one vertical member which are interconnected by horizontal bars. The vertical members must be truly vertical, i.e. perpendicular to the ground, in the operating position of the supporting means.

Illustrative example of subject matter classified in this group:



D06F 57/08

Folding stands ([D06F 57/06](#) takes precedence)

Definition statement

This place covers:

Folding stands, i.e. stands that are foldable for stowing.

This group covers in particular, but not exclusively, folding stands as defined above which are foldable about a horizontal axis.

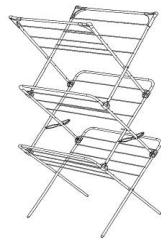
Illustrative example of subject matter classified in this group:



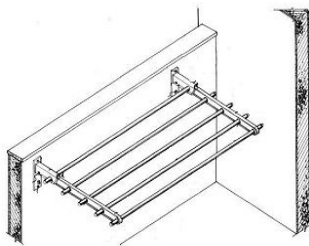
D06F 57/10**of the lazy-tongs type****Definition statement***This place covers:*

Any foldable stand with intersecting leg members, the leg members being foldable using a mechanism involving at least two parallel folding axes in which the members intersect.

Illustrative example of subject matter classified in this group.

**D06F 57/12****specially adapted for attachment to walls, ceilings, stoves, or other structures or objects****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Towel racks

[A47K 10/04](#)

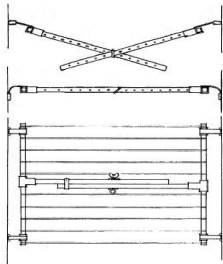
D06F 57/122

{for attachment by clamping between two retaining-planes}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



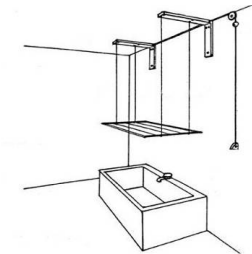
D06F 57/125

{for attachment to, or close to, the ceiling}

Definition statement

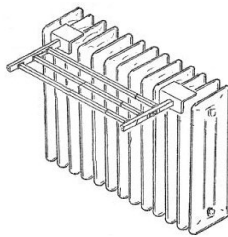
This place covers:

Illustrative example of subject matter classified in this group.



D06F 57/127**{for attachment or suspension to central heating radiators}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**D06F 58/00****Domestic laundry dryers****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

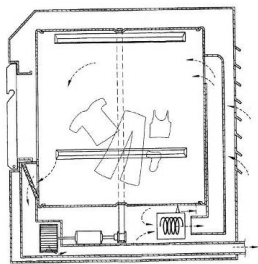
Drying in general

[F26B](#)**D06F 58/02****having dryer drums rotating about a horizontal axis****Definition statement***This place covers:*

Domestic laundry drier having a drier drum rotating about a horizontal axis in general.

For instance: a domestic laundry drier having a drier drum rotating about a horizontal axis defined by a particular arrangement of conducting air inside the laundry drier, this particular arrangement involving inter alia the drum.

An example of such a domestic laundry drier in [D06F 58/02](#) is:



D06F 58/04

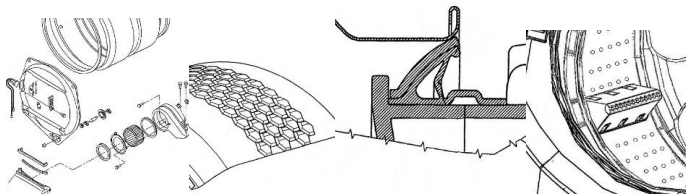
Details (controlling or regulating devices [D06F 34/00](#))

Definition statement

This place covers:

Details that are directly relating to the drier drum rotating about a horizontal axis of the domestic laundry drier.

Examples of such details of a domestic laundry drier in [D06F 58/04](#) include:



References

Limiting references

This place does not cover:

Controlling or regulating devices	D06F 34/00
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Special rules of classification

In case an aspect of the detail falls also in [D06F 58/20](#) and its subgroups, i.e. this aspect of the detail is not restricted to laundry driers having a drum rotating about a horizontal axis, then also [D06F 58/20](#) or its relevant subgroup should be assigned.

For instance: a domestic laundry drier having a drier drum rotating about a horizontal axis and comprising an electric heating device specially shaped or adapted to the drier drum should be classified in both, [D06F 58/04](#) (aspect: specially shaped to the drier drum) and [D06F 58/26](#) (aspect: heating device).

D06F 58/06

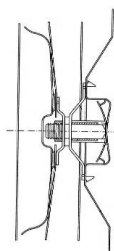
Mountings for the rotating drums

Definition statement

This place covers:

Any detail related to the mounting of the rotating drum, for instance bearings or supports of the rotating drum.

An example of a detail of a mounting for a rotating drum in [D06F 58/06](#) is:



D06F 58/08

Driving arrangements

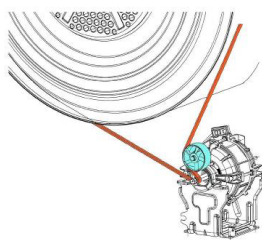
Definition statement

This place covers:

Device details or components of the domestic laundry drier directly related or linked to the driving arrangement of the drier drum.

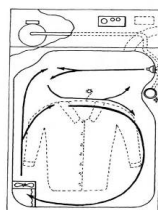
For instance: the motor, mounting and support of the motor, as well as details of the drive system such as belts and pulleys.

An example of such a details of a driving arrangement in [D06F 58/08](#) is:



D06F 58/10**Drying cabinets or drying chambers having heating or ventilating means****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

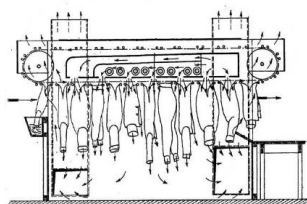
**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Clothes dryers having a rotating drum

[D06F 58/02](#)**D06F 58/12****having conveying means for moving clothes, e.g. along an endless track****Definition statement***This place covers:*

Conveying means for moving the clothes, for instance along an endless track, along a rotating screw, or back and forth

Illustrative example of subject matter classified in this group.

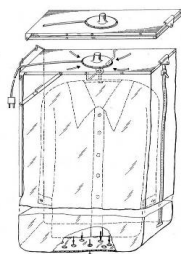


D06F 58/14**Collapsible drying cabinets; Wall mounted collapsible hoods****Definition statement**

This place covers:

Collapsible drying cabinets, such as collapsible and portable drying devices; Wall mounted collapsible hoods

Illustrative example of subject matter classified in this group.

**D06F 58/16****having heatable surfaces for contacting the laundry ([D06F 59/00](#) takes precedence)****Definition statement**

This place covers:

Domestic laundry driers having heatable surfaces for contacting the laundry, the domestic laundry drier being specifically designed for, and used as, domestic device for drying laundry.

Illustrative example of subject matter classified in this group.

**References****Limiting references**

This place does not cover:

Supports adapted to retain the shape of particular articles being dried	D06F 59/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

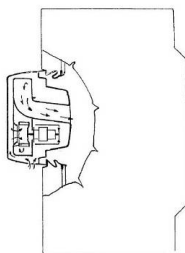
Towel racks having drying means	A47K 10/06
Radiators per se	F24D

D06F 58/18**Detachable or door-mounted drying arrangements for washing machines****Definition statement**

This place covers:

Drying arrangement which can be removably attached to a washing machine and which does not form part of the washing machine; door-mounted drying arrangement suitable for a washing machine, the drying arrangement being self-contained.

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Washing machines having receptacles, stationary for the washing purposes, and having further drying means	D06F 18/00
Washing machines with receptacles having a rotary movement, the receptacle serving both for washing and centrifugally draining and having further drying mean	D06F 25/00

D06F 58/20**General details of domestic laundry dryers ([D06F 59/00](#) takes precedence)****Definition statement**

This place covers:

General details of domestic laundry driers being relevant for all different type of domestic laundry driers.

For instance:

- vents or pipes or air valves used in domestic laundry dryers;

- fans or air blowing arrangement;
- air/air heat exchangers for heat exchange without condensation, e.g. heat exchanger for heat recovery;
- casing details specific to laundry driers.

References

Limiting references

This place does not cover:

Supports adapted to retain the shape of particular articles being dried	D06F 59/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing machines / casings	D06F 39/12
Washing machines / supporting arrangements for the casing	D06F 39/125
Washing machines / doors or covers; securing means thereof	D06F 39/14
Dishwashers / details of the casing	A47L 15/4251

Special rules of classification

In case the details or the components relate to an air/air heat exchanger which effects the condensation of moisture, only the subgroup [D06F 58/24](#) should be assigned (i.e. not [D06F 58/20](#) in addition).

D06F 58/203

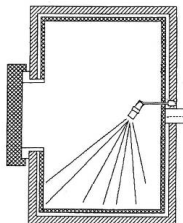
{Laundry conditioning arrangements}

Definition statement

This place covers:

Details of laundry conditioning devices or components in domestic laundry driers (e.g. free body dispensers or laundry balls specially adapted for releasing laundry conditioning agent during a drying cycle of a domestic laundry dryer) using a laundry conditioning agent (e.g. water, steam, perfume, starch) to be applied to the laundry.

An example of such a laundry conditioning arrangement in a domestic laundry drier may involve the injection of a laundry conditioning agent into the treatment chamber, as shown below:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Free body dispensers for adding soap or other washing agents	D06F 39/024
Washing machines / Steam generating arrangements	D06F 39/40
Detergent compositions incorporated into a dispensing means, specially adapted for dry cleaning or laundry dryer related applications	C11D 17/047
Steam generators per se	F22B 1/28

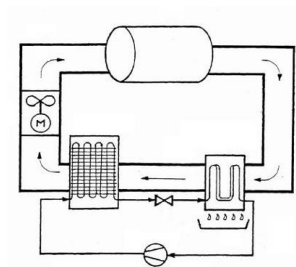
D06F 58/206

{Heat pump arrangements}

Definition statement

This place covers:

Heat pump arrangements for domestic laundry dryers, e.g. heat pumps of the compressor type, of the sorption type or using thermo-electric elements (e.g. Peltier / Seebeck devices).



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Heat pumps

Drying arrangements for dishwashers / using condensers	A47L 15/483
Air conditioning	F24F 5/0007
Combined heating and refrigeration systems	F25B 29/00
Heating and cooling	F25B 30/00
Drying by using sorbent;	F26B 21/083
Drying by condensing the moisture	F26B 21/086
Heating arrangements	F26B 23/00

Thermo-electric heat pumps (e.g. Peltier)

Air conditioning	F24F 5/0042
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Heating and cooling	F25B 11/00
Basic electric elements	H10N 10/00

D06F 58/22

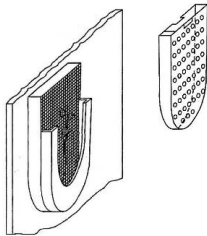
Lint collecting arrangements

Definition statement

This place covers:

Details of devices or components related or linked to the collection of lint or other particles, such as air filters and air filter cleaning devices.

Illustrative example of subject matter classified in this group.



D06F 58/24

Condensing arrangements

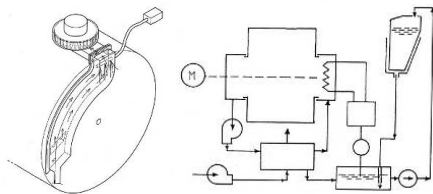
Definition statement

This place covers:

Details of devices or components related or linked to the collection of lint or other particles, such as air filters and air filter cleaning devices.

- condensers or the components effecting the condensation of moisture;
- condensation handling devices such as condensation pump and condensation container;
- details directly related to the condenser, such as components effecting the cleaning or enabling maintenance of the condenser.

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Drying arrangements for dishwashers / using condensers	A47L 15/483
Heat exchangers	F28E , F28D

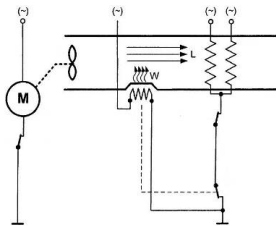
D06F 58/26

Heating arrangements, e.g. gas heating equipment ([D06F 58/18](#) takes precedence)

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



References

Limiting references

This place does not cover:

Detachable or door-mounted drying arrangements for washing machines	D06F 58/18
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D06F 58/263

{Gas heating equipment}

Definition statement

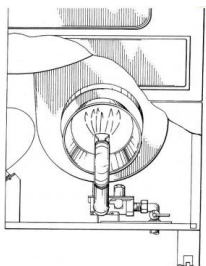
This place covers:

Domestic laundry driers having gas heating equipment including the burner and the gas supply devices.

D06F 58/263 (continued)
Definition statement

CPC - D06F - 2024.05

Illustrative example of subject matter classified in this group:



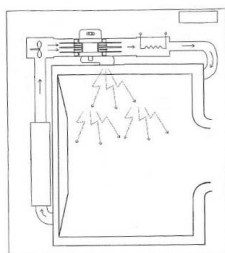
D06F 58/266

{Microwave heating equipment}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 58/30

**Drying processes (controlling a series of operations in domestic laundry
dryers [D06F 58/32](#))**

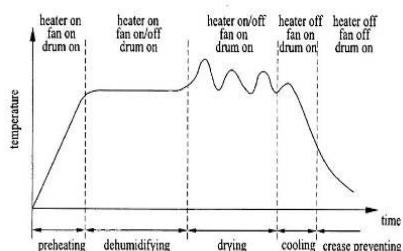
Definition statement

This place covers:

Laundry drying processes per se, i.e. machine working methods characterized by several laundry treating steps.

It is noted that in this group the focus is set on the treating process the laundry undergoes.

Illustrative example of subject matter classified in this group.



The above diagram represents a typical drying method for laundry dryers, in which several laundry treating steps are performed, for example during the drying process the heater and the blower fan are subsequently turned ON/OFF while the drum is rotated.

References

Limiting references

This place does not cover:

Controlling a series of operations in domestic laundry dryers	D06F 58/32
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Methods for washing, rinsing or spin-drying	D06F 35/005
General details of domestic laundry dryers	D06F 58/20
Controlling processes for dishwashers	A47L 15/0018

D06F 58/32

Control of operations performed in domestic laundry dryers (control of operations performed in washer-dryers [D06F 33/50](#); details of control systems, e.g. for detecting or measuring specific parameters or for selection or indication of programs [D06F 34/00](#))

Definition statement

This place covers:

General control aspects that are not covered by [D06F 58/34](#) - [D06F 58/52](#).

D06F 58/34

characterised by the purpose or target of the control

Definition statement

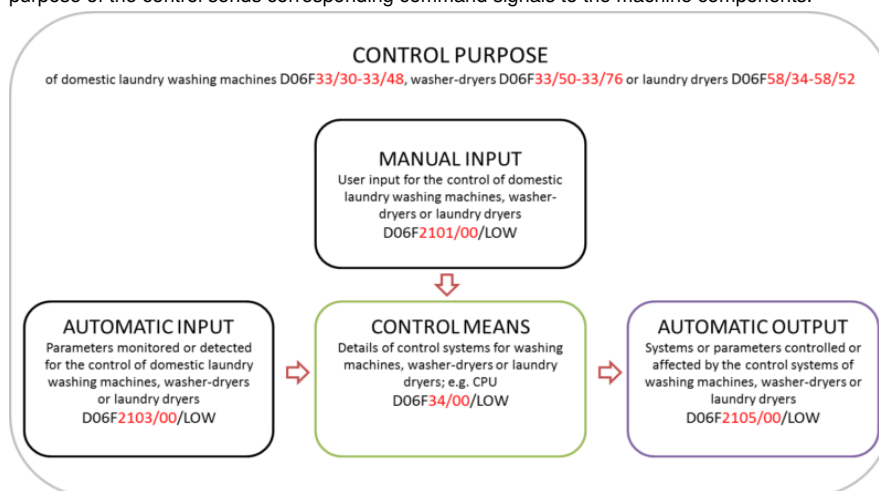
This place covers:

The controlling processes of laundry dryers that are classified in this group and its subgroups according to their specific purpose, e.g. the optimization / improvement of the drying phase or the prevention of laundry ignition.

The further information relating to the (manual) input and the output of these controlling processes is classified with the mandatory indexing codes and any details of the control means per se, i.e. the "hardware" is classified in the groups relating to the details of the control means (see special rules of classification for this group and its subgroups).

Concept

The following picture schematically illustrates how a controlling process of a washing machine, washer-dryer or laundry dryer is classified based on how it works. An input signal (i.e. a user input as "manual input" or an automatically detected signal as "automatic input, e.g. by a sensors) is fed into a control unit as "control means" which depending on the purpose of the control sends corresponding command signals to the machine components.



The preceding image makes reference to the following symbols: [D06F 33/30-D06F 33/48](#), [D06F 33/50-D06F 33/76](#), [D06F 58/34-D06F 58/52](#), [D06F 2101/00](#), [D06F 2103/00](#), [D06F 34/00](#), [D06F 2105/00](#).

A controlling process of a laundry treating apparatus (e.g. a laundry dryer) has a specific "control purpose" and implies the presence of a "control means" (e.g. a CPU), whereby the control means is usually a control unit which comprises a user interface (e.g. a control panel) and several sensors for the automatic detection of e.g. air temperature, laundry humidity, liquid level in the condensed water tank, etc.

Moreover, the control unit is usually configured to perform actions as "automatic output" (e.g. switching a heater ON/OFF, regulating the blower fan speed, etc.), depending on the purpose of the control and based on the input of the user and/or the signals provided by the sensors.

First example: laundry dryer - control method

Definition statement

Control method for a laundry dryer employing a control unit adapted to detect the temperature of the drying air and to switch the fan speed and the heater ON/OFF based on the target humidity of the laundry load, as input by the user, such as to reduce the operating time.

Classification of the example:

- Purpose: [D06F 33/70](#) (Control of the operating time)
- Manual input: [D06F 2101/16](#) (Target humidity for the drying process)
- Automatic input: [D06F 2103/32](#) (Air properties – temperature)
- Automatic output: [D06F 2105/28](#) (Electric heating); [D06F 2105/30](#) (Blowers)

Second example: washer-dryer

Washer-dryer provided with a control circuit, a control panel, an air heater and a temperature sensor for measuring the temperature of the drying air, whereby the user interface allows the user to set the maximum temperature of the drying air, and the control unit is configured to regulate the heater (e.g. by switching it ON/OFF) and the blower fan based on the temperature of the drying air. The control aims to avoid damaging the laundry by overheating.

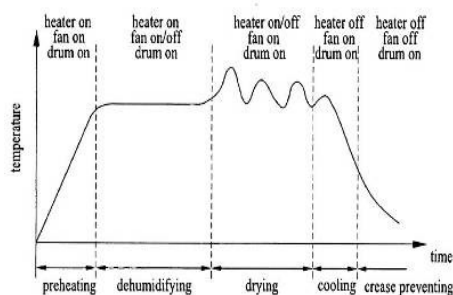
Classification of the example:

- Purpose: [D06F 33/52](#) (Control of the operational steps, e.g. optimisation or improvement of operational steps depending on the condition of the laundry)
- Manual input: [D06F 2101/18](#) (Target temperature for the drying process, e.g. low-temperature cycles)
- Automatic input: [D06F 2103/32](#) (Air properties – Temperature)
- Automatic output: [D06F 2105/28](#) (Electric heating); [D06F 2105/30](#) (Blowers)
- Note: All washer-dryers have to be also classified, as a general rule, in [D06F 25/00](#).

Special rules of classification

It is compulsory to classify also all relevant aspects related to the Purpose, Manual Input, Automatic Input, Automatic Output and Details of the control means.

- Purpose [D06F 58/34](#)- [D06F 58/52](#)
- Manual Input [D06F 2101/00](#)- [D06F 2101/20](#)
- Automatic Input [D06F 2103/00](#)- [D06F 2103/70](#)
- Automatic Output [D06F 2105/00](#)- [D06F 2105/62](#)
- Details of the Control Means [D06F 34/00](#)- [D06F 34/34](#)



The above diagram represents a typical drying method for laundry dryers, belonging to [D06F 58/30](#) in which, during the drying process, the heater and the blower fan are subsequently turned ON/OFF while the drum is rotated. It is noted that [D06F 58/30](#) relates to methods for treating the laundry

whereas [D06F 58/34](#) and subgroups relate to devices for controlling the appliance (i.e. the focus is set on the treating process the laundry undergoes).

D06F 58/36

Control of operational steps, e.g. for optimisation or improvement of operational steps depending on the condition of the laundry

Definition statement

This place covers:

The control of individual operational steps, which are focused on the condition of the laundry.

D06F 58/38

of drying, e.g. to achieve the target humidity

Definition statement

This place covers:

The control of individual operational steps, which are focused on the achievement of one or more target drying parameters.

D06F 58/40

Control of the initial heating of the drying chamber to its operating temperature

Definition statement

This place covers:

The control of individual operational steps, which are focused on the initial heating phase.

D06F 58/42

by unheated air

Definition statement

This place covers:

Control methods or control arrangements having the purpose of steering and/or optimizing the air flow, wherein the air is unheated.

D06F 58/44

of conditioning or finishing, e.g. for smoothing or removing creases

Definition statement

This place covers:

Control methods or control arrangements of laundry dryers having the purpose of conditioning or finishing the laundry, e.g. using a laundry-conditioning agent like water, steam, perfume, starch.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Steam generating arrangements	D06F 39/40
Laundry conditioning arrangements	D06F 58/203
Steam generators per se	F22B 1/28

D06F 58/45

Cleaning or disinfection of machine parts, e.g. of heat exchangers or filters

Definition statement

This place covers:

Control methods or control arrangements having the purpose of cleaning or disinfecting of laundry dryer components, e.g. of the lint filter, condenser, air duct, etc.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Control of cleaning or disinfection of washer-dryer parts, e.g. of washer-dryer tubs	D06F 33/69
Methods for disinfecting the tub or the drum for washing machines	D06F 35/008
Laundry conditioning arrangements	D06F 58/203
Lint collecting arrangements	D06F 58/22

Special rules of classification

Arrangements for disinfecting the tub or the drum are classified under [D06F 35/008](#).

Devices for collecting lint or fluff are classified under [D06F 58/22](#).

D06F 58/46

Control of the operating time

Definition statement

This place covers:

Control methods concerning the operating time, e.g. reduction of overall operating time.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Control of the operating time of washer-dryers	D06F 33/70
Timing arrangements	D06F 34/06
Time settings	D06F 2101/14

Time, e.g. duration	D06F 2103/38
Remaining operation time; Remaining operational cycles	D06F 2105/56

D06F 58/48

Control of the energy consumption

Definition statement

This place covers:

The control of individual operational steps concerning the reduction of energy consumption.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Control of the energy or water consumption (washer-dryers)	D06F 33/72
Arrangements for the recovery of water in laundry washing machines	D06F 39/20
Arrangements for the recovery of energy in laundry washing machines	D06F 39/30

D06F 58/50

Responding to irregular working conditions, e.g. malfunctioning of blowers

Definition statement

This place covers:

The control of individual operational steps concerning the prevention and early detection of potentially dangerous or abnormal working conditions that might cause damage to the user and/or to the machine, e.g. clogging of the lint filter, laundry ignition, electric malfunctions, etc.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Control of washer-dryers responding to irregular working conditions, e.g. malfunctioning of pumps	D06F 33/74
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D06F 58/52

Preventing or reducing noise

Definition statement

This place covers:

The control of individual operational steps to reduce and/or prevent imbalance or noise.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Control of washing machines characterised for preventing or reducing imbalance or noise	D06F 33/48
Control of washer-dryers for preventing or reducing imbalance or noise	D06F 33/76
Arrangements for detecting or measuring imbalance	D06F 34/16
Mountings, e.g. resilient mountings, for the rotary receptacle, motor, tub, or casing; Preventing or damping vibrations, for washing machines	D06F 37/20
Damping vibrations by displacing, supplying or ejecting a material, e.g. liquid, into or from counterbalancing pockets, for washing machines with a receptacle rotating or oscillating about a horizontal axis	D06F 37/225
Damping vibrations by displacing, supplying or ejecting a material, e.g. liquid, into or from counterbalancing pockets for washing machines with a receptacle rotating or oscillating about a vertical axis	D06F 37/245
Parameters of unbalance or noise monitored or detected for the control of domestic laundry washing machines, washer-dryers or laundry dryers	D06F 2103/26

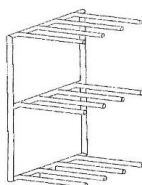
D06F 59/00

Supports adapted to retain the shape of particular articles being dried, e.g. incorporating heating means {(devices for retaining the shape of hats [A42B 1/002](#))}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Apparatuses for changing the form and size of hats	A42C 3/00
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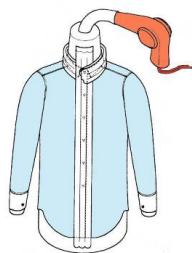
D06F 59/02

for garments

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



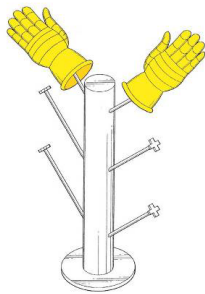
D06F 59/04

for gloves

Definition statement

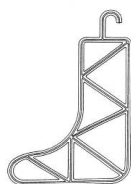
This place covers:

Illustrative example of subject matter classified in this group.

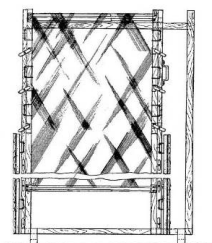


D06F 59/06**for stockings****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**D06F 59/08****for curtains, table cloths, or other articles of sheet form****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Stretching devices for straining screens	B07B 1/48
Stretching printing fabrics	B41F 15/36
Quilting frames	D05B 39/005
Frames for embroidering	D05C 1/02 , D05C 9/04 , D05C 9/10
Stretching frames	D06C 3/08

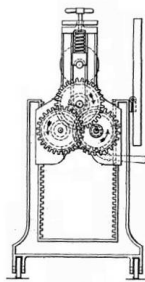
D06F 61/00

Ironing machines using two or more co-operating pressing rollers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



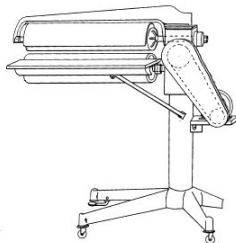
D06F 61/02

with two rollers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



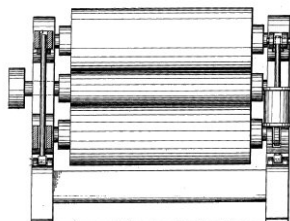
D06F 61/04

with three or more rollers one above the other

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



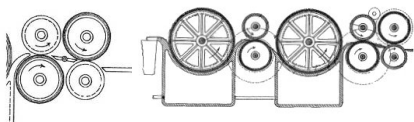
D06F 61/06

with successive pairs of rollers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



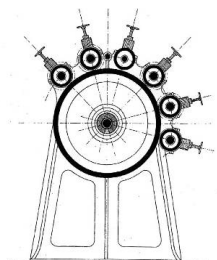
D06F 61/08

with one central roller co-operating with a plurality of circumferential rollers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



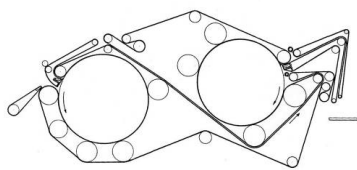
D06F 61/10

with two or more central rollers co-operating with a plurality of circumferential rollers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



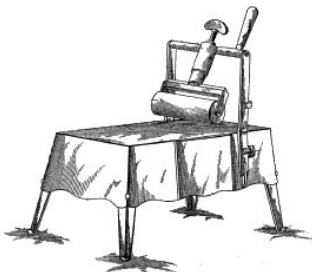
D06F 63/00

Ironing machines having a roller or rollers coacting with a fixed or moving flat bed or table (coverings or pads [D06F 83/00](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



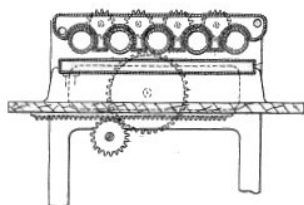
D06F 63/02

with two or more rollers co-acting with a fixed or moving flat bed or table

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



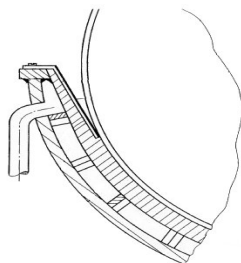
D06F 65/00

Ironing machines with rollers rotating against curved surfaces

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



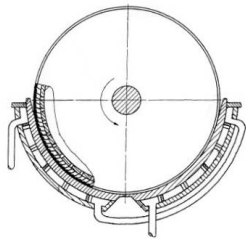
D06F 65/02

with one roller only

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



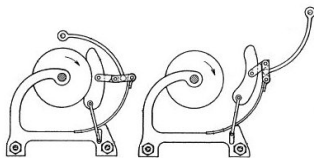
D06F 65/04

the bed being urged against the roller by hand or foot

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



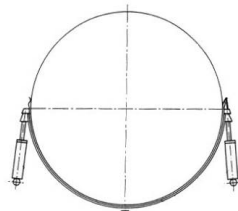
D06F 65/06

the bed being urged against the roller by power

Definition statement

This place covers:

Mechanical safety features.



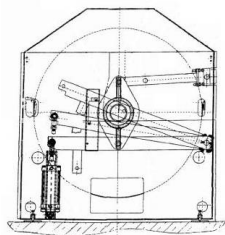
D06F 65/08

the roller being urged against the bed

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

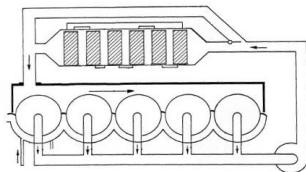
**D06F 67/00**

Details of ironing machines provided for in groups [D06F 61/00](#), [D06F 63/00](#), or [D06F 65/00](#) (coverings or pads for ironing or pressing members [D06F 83/00](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Limiting references**

This place does not cover:

Coverings or pads for ironing or pressing members	D06F 83/00
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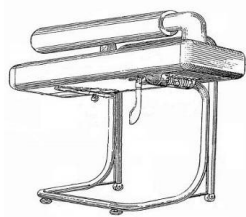
D06F 67/005

{Stands or cabinets}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



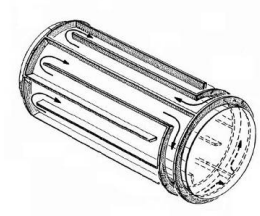
D06F 67/02

Rollers; Heating arrangements therefor

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



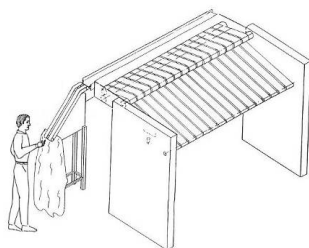
D06F 67/04

Arrangements for feeding or spreading the linen

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



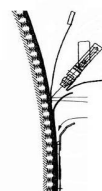
D06F 67/06

Means for stripping the linen from the rollers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



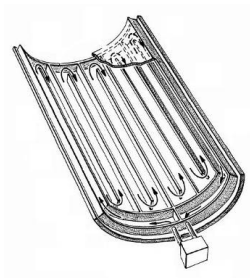
D06F 67/08

Beds; Heating arrangements therefor

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



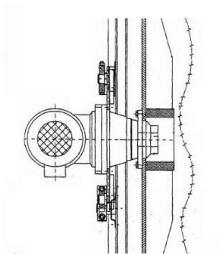
D06F 67/10

Driving arrangements

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



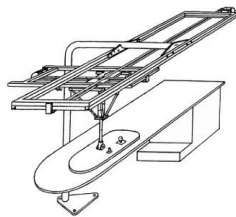
D06F 69/00

Ironing machines not otherwise provided for

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



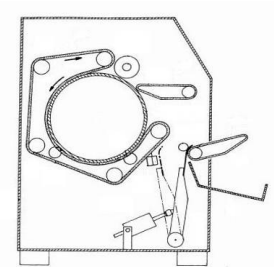
D06F 69/02

using endless or other ironing or pressing belts or aprons

Definition statement

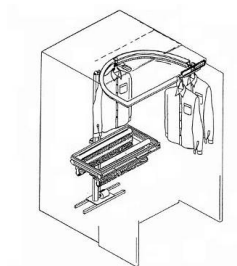
This place covers:

Ironing machines comprising a moving endless belt pressed against a moveable roller.



D06F 69/04**with relatively-sliding flat surfaces****Definition statement***This place covers:*

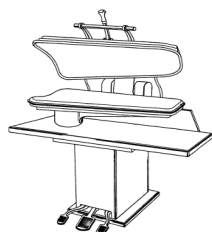
Illustrative example of subject matter classified in this group.

**D06F 71/00**

Apparatus for hot-pressing clothes, linen or other textile articles, i.e. wherein there is substantially no relative movement between pressing element and article while pressure is being applied to the article; Similar machines for cold-pressing clothes, linen or other textile articles

Definition statement*This place covers:*

Illustrative example of subject matter classified in this group.

**References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Devices, for household use, for cold-pressing garments	A47G
--	----------------------

Informative references

Attention is drawn to the following places, which may be of interest for search:

Smoothering by cold rolling between two or more co-operating rollers	D06F 45/00
--	----------------------------

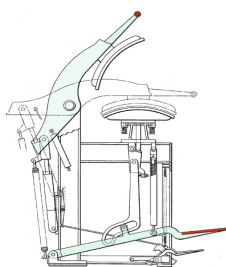
D06F 71/02

actuated wholly by hand or foot ([D06F 71/08](#) takes precedence)

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Limiting references**

This place does not cover:

Apparatuses wherein one or more of the pressing elements is moved laterally between successive pressing operations
--

D06F 71/08

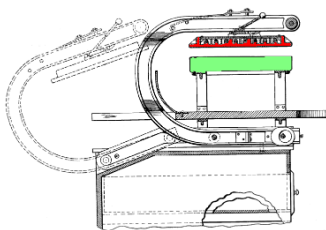
D06F 71/023

{with an upper movable pressing member and a lower fixed pressing member}

Definition statement

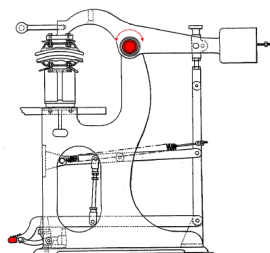
This place covers:

Illustrative example of subject matter classified in this group.

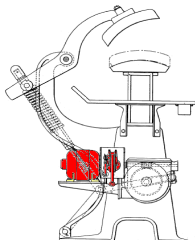


D06F 71/026**{the upper movable member rotating about a fixed axis}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**D06F 71/04****power-actuated ([D06F 71/08](#) takes precedence)****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**References****Limiting references***This place does not cover:*

Apparatuses wherein one or more of the pressing elements is moved laterally between successive pressing operations	D06F 71/08
--	----------------------------

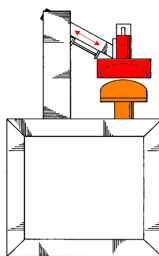
D06F 71/043

**{with an upper movable pressing member and a lower fixed pressing member
([D06F 71/06](#) takes precedence)}**

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



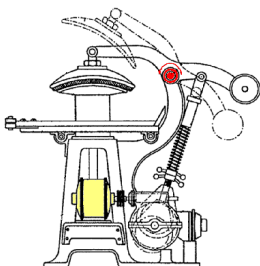
D06F 71/046

{the upper movable member rotating about a fixed axis}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

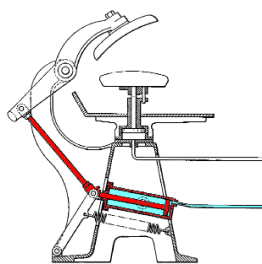


D06F 71/06

fluid-actuated

Definition statement

This place covers:



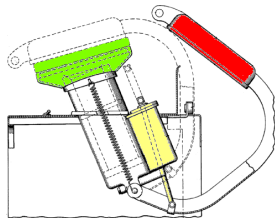
D06F 71/062

{with an upper movable pressing member and a lower fixed pressing member}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



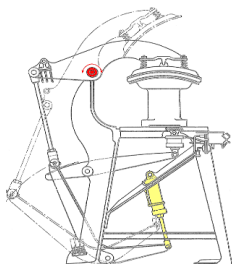
D06F 71/065

{the upper movable member rotating about a fixed axis}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



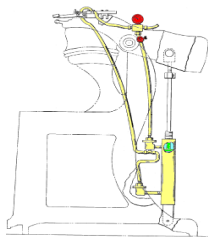
D06F 71/067

{Fluid-control mechanisms for controlling the ironing pressure or the movement of the pressure member}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



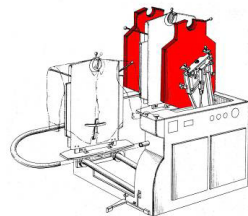
D06F 71/08

wherein one or more of the pressing elements is moved laterally between successive pressing operations

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



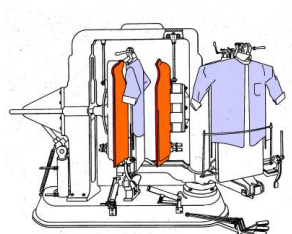
D06F 71/10

by movement about a vertical axis

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



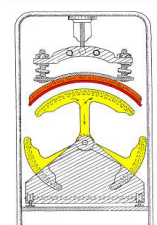
D06F 71/12

by movement about a horizontal axis

Definition statement

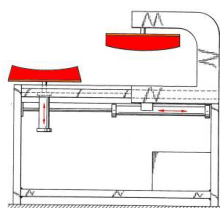
This place covers:

Illustrative example of subject matter classified in this group.

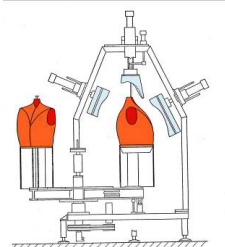


D06F 71/14**by a rectilinear movement****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**D06F 71/16****having a pressing element or buck adapted to provide interior support for a garment to be pressed ([D06F 71/18](#) takes precedence)****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**References****Limiting references***This place does not cover:*

For pressing particular garments or parts thereof

[D06F 71/18](#)

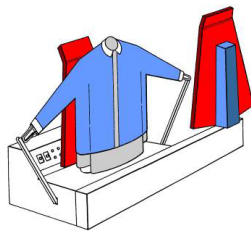
D06F 71/20

for pressing shirts

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



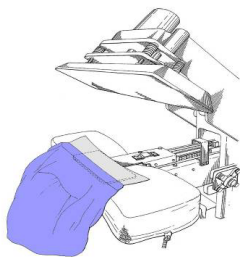
D06F 71/22

for pressing collars

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



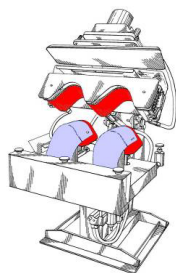
D06F 71/24

for pressing cuffs

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



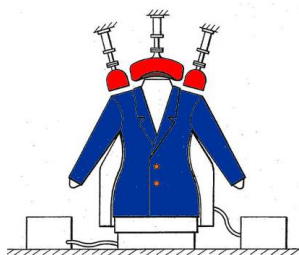
D06F 71/26

for pressing shoulders or necks

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



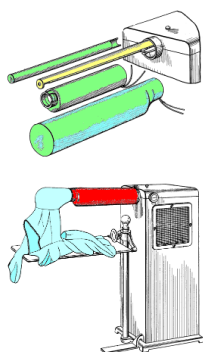
D06F 71/28

for pressing sleeves, trousers, or other tubular garments or tubular parts of garments

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



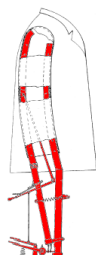
D06F 71/285

{for pressing sleeves}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



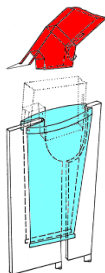
D06F 71/29

Trousers

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



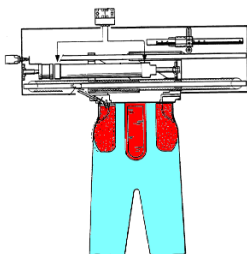
D06F 71/295

{the top portion of trousers}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



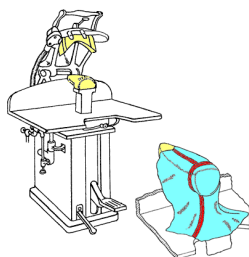
D06F 71/30

specially adapted for pressing seams (specially adapted for pressing particular garments or parts thereof [D06F 71/18](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Limiting references**

This place does not cover:

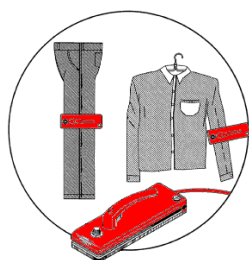
For pressing particular garments or parts thereof

D06F 71/18

D06F 71/32**Details****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group.



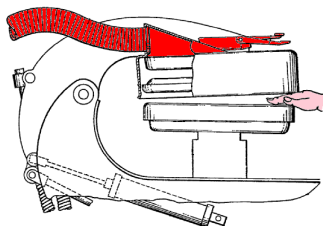
D06F 71/323

{Protective devices, e.g. burn guards}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



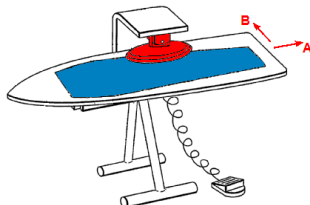
D06F 71/326

{Arrangements for producing a sliding or ironing movement between the pressing elements in closed position}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



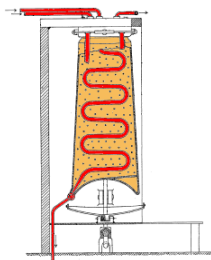
D06F 71/34

Heating arrangements; Arrangements for supplying or removing steam or other gases

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

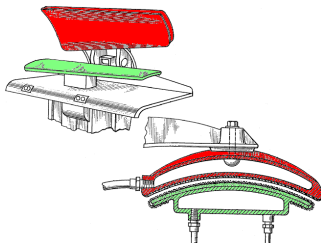
**D06F 71/36**

Pressing elements (for use in pressing particular garments or parts thereof [D06F 71/18](#); coverings or pads therefor [D06F 83/00](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Limiting references**

This place does not cover:

For use in pressing particular garments or parts thereof	D06F 71/18
Coverings or pads therefor	D06F 83/00

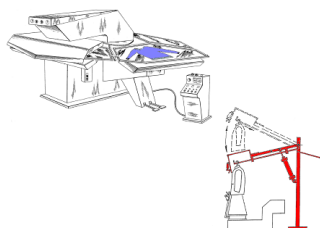
D06F 71/38

Feeding arrangements (feeding by lateral movement of pressing elements
[D06F 71/08](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Limiting references**

This place does not cover:

Feeding by lateral movement of pressing elements	D06F 71/08
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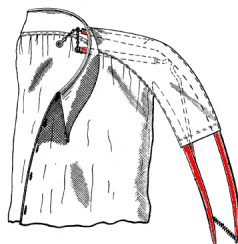
D06F 71/40

Holders or stretchers for the article to be pressed

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Shaping or stretching of fabrics	D06C 5/00
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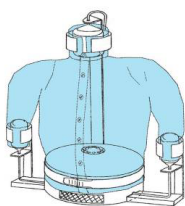
D06F 73/00

Apparatus for smoothing or removing creases from garments or other textile articles by formers, cores, stretchers, or internal frames, with the application of heat or steam (combined with external pressure means [D06F 71/00](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Limiting references**

This place does not cover:

Combined with external pressure means	D06F 71/00
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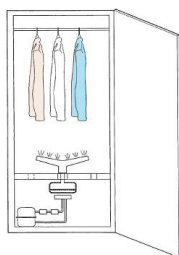
Informative references

Attention is drawn to the following places, which may be of interest for search:

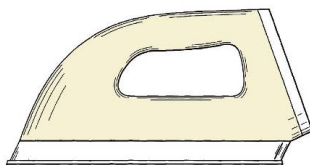
Stretchers for drying purposes	D06F 59/00
Combined with external pressure means	D06F 71/00
Stretchers for use with presses	D06F 71/40
Apparatus for moistening or otherwise conditioning the article to be ironed or pressed, e.g. handheld steamers	D06F 87/00
Dress-forms for the tailoring trade	A41H
Garment stretchers without the application of heat	A47G 25/00
Garment bags	A47G 25/54

D06F 73/02**having one or more treatment chambers****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**D06F 75/00****Hand irons****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Carpet irons	A47G 27/0443
Steam generators	F22B 1/28

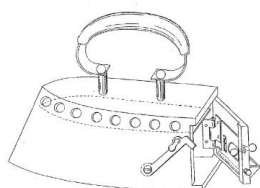
D06F 75/02

Externally-heated hand irons; Hand irons internally heated by means other than electricity, e.g. by solid fuel, by steam

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



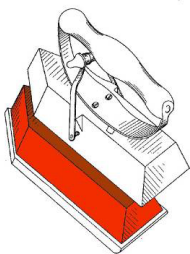
D06F 75/04

by pre-heated block

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



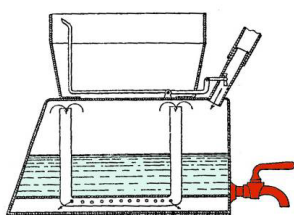
D06F 75/06

with means for supplying steam or liquid to the article being ironed ([D06F 75/32](#) takes precedence)

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Limiting references**

This place does not cover:

Attachments for converting hand irons to steam irons
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D06F 75/32

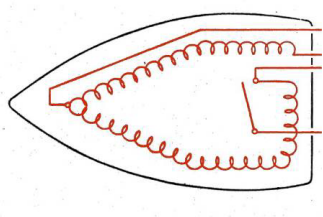
D06F 75/08

Hand irons internally heated by electricity

Definition statement

This place covers:

Any hand iron internally heated by electricity that cannot be classified in one of the lower subgroups of [D06F 75/08](#). This group comprises, for instance, illuminating devices.

**Special rules of classification**

Information regarding steam irons should not be classified in [D06F 75/08](#) itself (information regarding steam irons should be classified in [D06F 75/10](#) and/or lower)

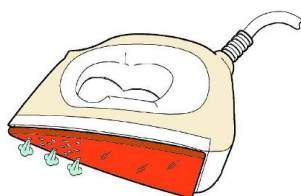
D06F 75/10

with means for supplying steam to the article being ironed ([D06F 75/32](#) takes precedence)

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Limiting references**

This place does not cover:

Attachments for converting hand irons to steam irons	D06F 75/32
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Methods of steam generation, steam boilers	F22B
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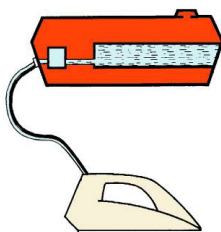
D06F 75/12

the steam being produced from water supplied to the iron from an external source

Definition statement

This place covers:

Hand irons having means for supplying steam, wherein steam or water for producing steam are supplied to the iron from an external source (e.g. an external steam generator or a water reservoir and pump).



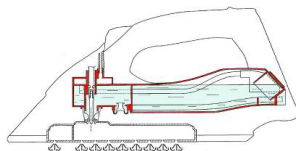
D06F 75/14

the steam being produced from water in a reservoir carried by the iron

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



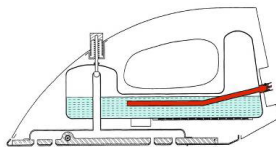
D06F 75/16

the reservoir being heated to produce the steam

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



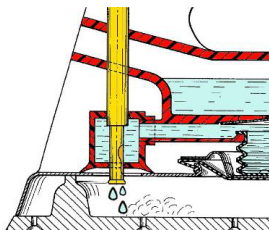
D06F 75/18

the water being fed slowly, e.g. drop by drop, from the reservoir to a steam generator

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



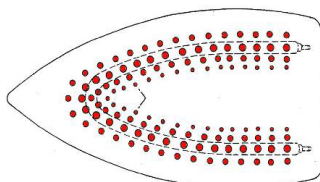
D06F 75/20

Arrangements for discharging the steam to the article being ironed

Definition statement

This place covers:

Steam outlets arrangements.



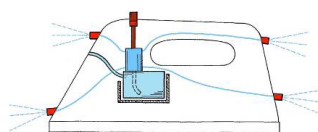
D06F 75/22

with means for supplying liquid to the article being ironed ([D06F 75/10](#) takes precedence)

Definition statement

This place covers:

Hand irons comprising water sprays.

**References****Limiting references**

This place does not cover:

Hand irons heated by electricity with means for supplying steam to the article being ironed	D06F 75/10
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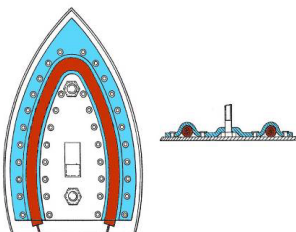
D06F 75/24

Arrangements of the heating means within the iron; Arrangements for distributing, conducting or storing the heat

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Electric heating in general	H05B
Thermostats for home appliances	H05B 1/0255

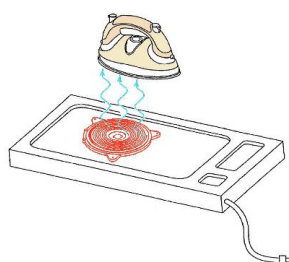
D06F 75/243

{using other than ohmic-resistance heating means, e.g. electrolytic or induction heating}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**D06F 75/246**

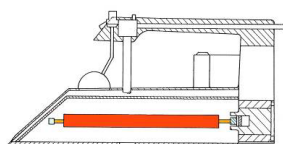
{using infrared lamps}

Definition statement

This place covers:

Any heating means using lamps or light sources for generating heat radiation, for instance:

- Heating means comprising infrared lamps;
- Heating means comprising sources of visible light;
- Heating means comprising sources of ultraviolet light.

**D06F 75/26**

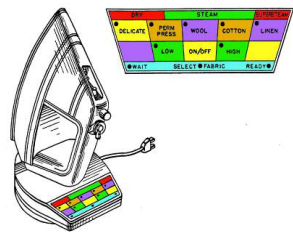
Temperature control or indicating arrangements

Definition statement

This place covers:

Temperature control or indicating arrangements for hand irons, including details for controlling or representing general displays, buttons, position detectors and thermostats of a hand iron.

Illustrative example of subject matter classified in this group:



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Thermally actuated switches	H01H
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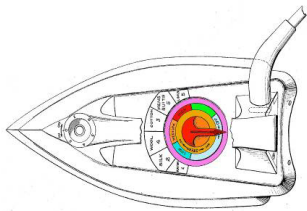
D06F 75/265

{Temperature indicating arrangements; Control knobs}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



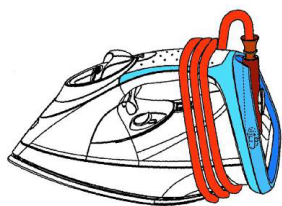
D06F 75/28

Arrangements for attaching, protecting or supporting the electric supply cable

Definition statement

This place covers:

Cable supports that are part of the hand iron.



D06F 75/30

Hand irons of special external shape or form

Definition statement

This place covers:

Hand irons having a special shape or use.



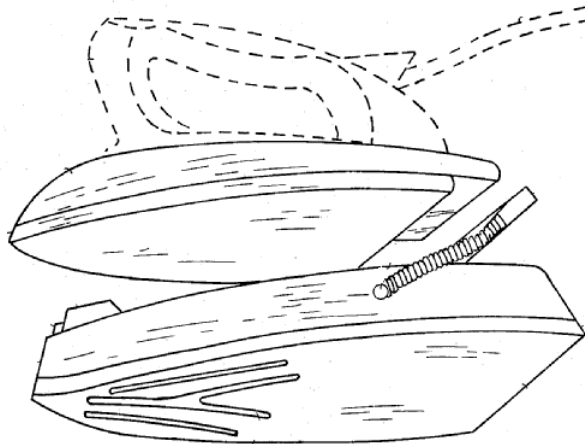
D06F 75/32

Attachments for converting hand irons to steam irons

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



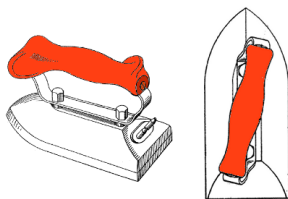
D06F 75/34

Handles; Handle mountings

Definition statement

This place covers:

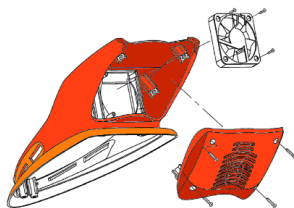
Illustrative example of subject matter classified in this group.



D06F 75/36**Casings****Definition statement**

This place covers:

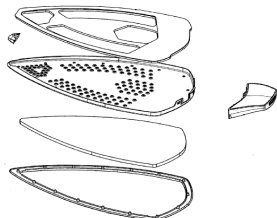
Illustrative example of subject matter classified in this group.

**D06F 75/38****Sole plates ([D06F 75/20](#) takes precedence)****Definition statement**

This place covers:

Construction details of fixed or removable soleplates (how the soleplate is built e.g. layers, materials etc.).

Illustrative example of subject matter classified in this group:

**References****Limiting references**

This place does not cover:

Arrangements for discharging the steam to the article being ironed
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D06F 75/20

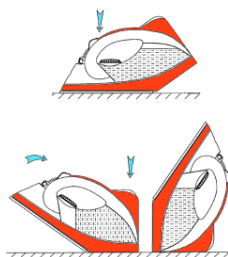
D06F 75/40

Stands or supports attached to the iron

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



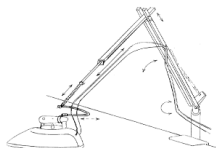
D06F 77/00

Arrangements for exerting pressure on, lifting, or guiding hand irons

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



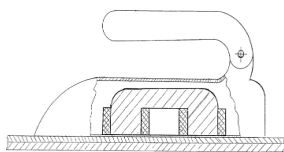
D06F 77/005

{using an electro-magnet or a permanent magnet in the iron or the ironing board}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



D06F 79/00

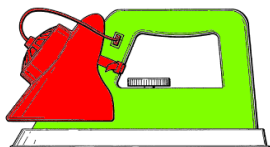
Accessories for hand irons

Definition statement

This place covers:

For instance: water containers for filling the iron.

Illustrative example of subject matter classified in this group.



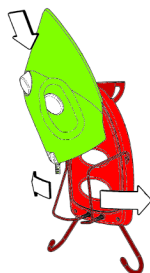
D06F 79/02

Stands or supports neither attached to, nor forming part of, the iron or ironing board

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



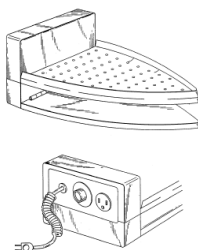
D06F 79/023

{with means for supplying current to the iron}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

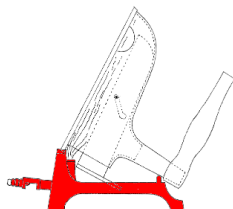


D06F 79/026**{for cordless irons}****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**D06F 79/04****Stoves or other heating means specially adapted for heating irons externally****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Stoves in general	F24
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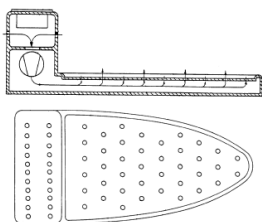
D06F 79/06

Means, not forming part of the iron, for cooling the iron

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

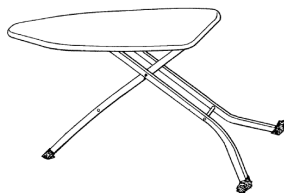
**D06F 81/00**

Ironing boards (coverings or pads therefor [D06F 83/00](#); kitchen cabinets with ironing boards movable outwards to a position of use [A47B 77/10](#))

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

**References****Limiting references**

This place does not cover:

Coverings or pads therefor	D06F 83/00
Kitchen cabinets with ironing boards movable outwards to a position of use	A47B 77/10

Informative references

Attention is drawn to the following places, which may be of interest for search:

Tables in general	A47B
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Ironing boards stored in kitchen cabinets	A47B 77/10
Ironing boards combined with ladders	E06C

D06F 81/003

{with flat iron support}

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



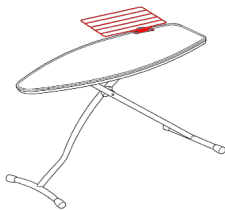
D06F 81/006

{with fabric support or garment rack}

Definition statement

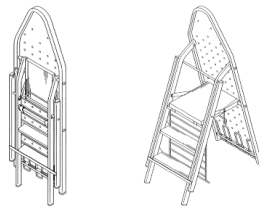
This place covers:

Illustrative example of subject matter classified in this group.

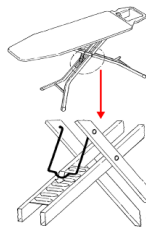


D06F 81/02**with collapsible underframe****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**D06F 81/04****with means for adjusting height****Definition statement***This place covers:*

Illustrative example of subject matter classified in this group.

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Tables with means for varying the height of the top	A47B 9/16
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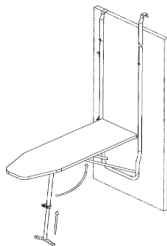
D06F 81/06

attachable to independent supports, e.g. walls

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



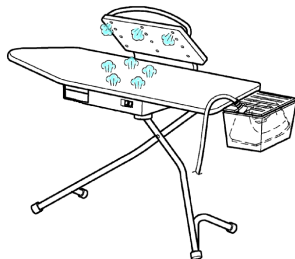
D06F 81/08

incorporating heating, steaming, or forced ventilation means

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



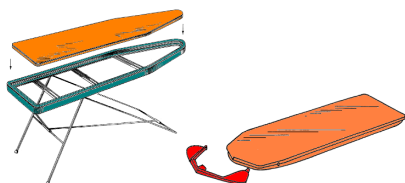
D06F 81/10

Top board elements

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



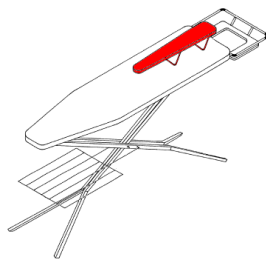
D06F 81/12

Sleeve boards; Attaching means therefor

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



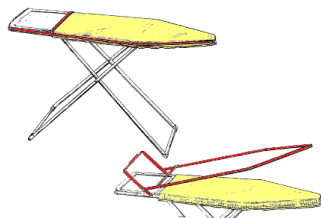
D06F 81/14

Means for attaching covers

Definition statement

This place covers:

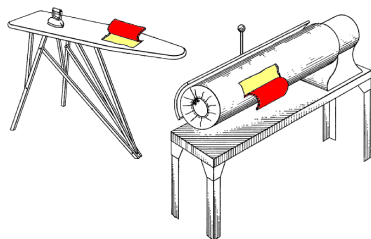
Illustrative example of subject matter classified in this group.



D06F 83/00**Coverings or pads for ironing or pressing members****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group.

**References****Informative references**

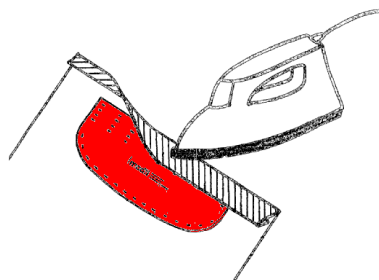
Attention is drawn to the following places, which may be of interest for search:

Ironing machines using two or more co-operating pressing rollers	D06F 61/00
Ironing boards	D06F 81/00

D06F 85/00**Independent elements for interposition between the article and the ironing or pressing surface****Definition statement**

This place covers:

Illustrative example of subject matter classified in this group.

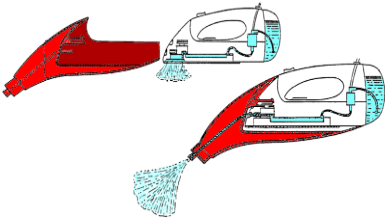


D06F 87/00

Apparatus for moistening or otherwise conditioning the article to be ironed or pressed (apparatus for smoothing or removing creases from garments or other textile articles by formers, cores, stretchers or internal frames, with the application of heat or steam [D06F 73/00](#) {; devices used in combination with a laundry dryer [D06F 58/203](#)})

Definition statement

This place covers:
Steamers.



References

Limiting references

This place does not cover:

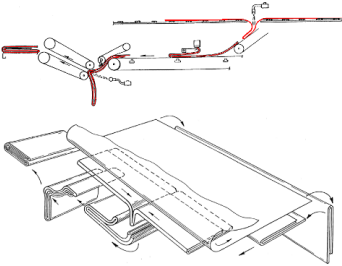
Devices used in combination with a laundry dryer	D06F 58/203
Apparatuses for smoothing or removing creases from garments or other textile articles by formers, cores, stretchers or internal frames, with the application of heat or steam	D06F 73/00

D06F 89/00

Apparatus for folding textile articles with or without stapling

Definition statement

This place covers:
Devices for creating temporary folds.



References

Limiting references

This place does not cover:

Hand irons with means for supplying steam to the article being ironed	D06F 75/10
Devices for creating permanent folds	A41H 43/00

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Seam	generally formed by two pieces of cloth stitched and/or glued together
Fold	generally formed by folding a piece of cloth onto itself, such that a folding line is formed

D06F 89/005

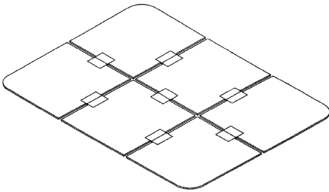
{Manual folding devices, e.g. for folding bed sheets ([D06F 89/02](#) takes precedence)}

Definition statement

This place covers:

Manual folding devices for any kind of household textiles with the exception of textile articles to be worn.

Illustrative example of subject matter classified in this group.



D06F 89/02

of textile articles to be worn, e.g. shirts

Definition statement

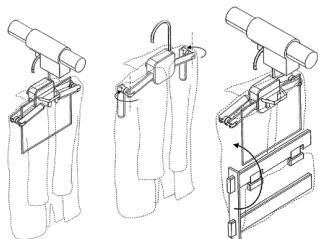
This place covers:

Manual folding devices for textile articles to be worn, with exception of shirts or parts thereof.

D06F 89/02 (continued)
Definition statement

CPC - D06F - 2024.05

Illustrative example of subject matter classified in this group.



D06F 89/023

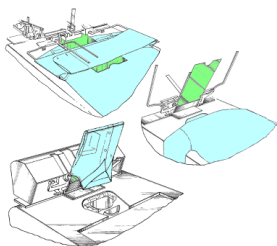
{of shirts}

Definition statement

This place covers:

Manual folding devices for shirts or parts thereof.

Illustrative example of subject matter classified in this group.



D06F 89/026

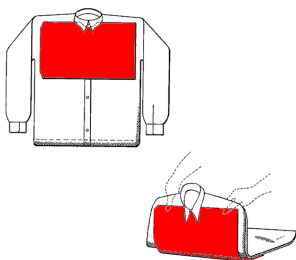
{Details, e.g. collar holders}

Definition statement

This place covers:

Collar holders for manual folding devices for shirts.

Illustrative example of subject matter classified in this group.



D06F 91/00

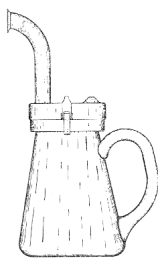
Starching apparatus

Definition statement

This place covers:

Manual devices for wetting clothes.

Illustrative example of subject matter classified in this group.



D06F 93/00

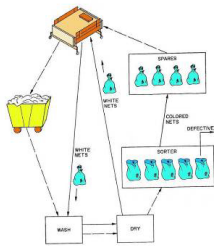
Counting, sorting, or marking arrangements specially adapted for laundry purposes

Definition statement

This place covers:

Industrial clothes counting or sorting arrangements.

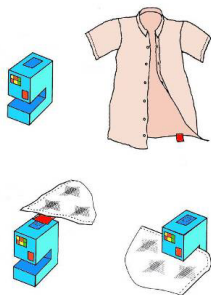
Illustrative example of subject matter classified in this group.



D06F 93/005**{Marking arrangements}****Definition statement**

This place covers:

Marks as well as marking arrangements.

**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Record carriers with integrated circuit chips

G06K 19/07

D06F 95/00

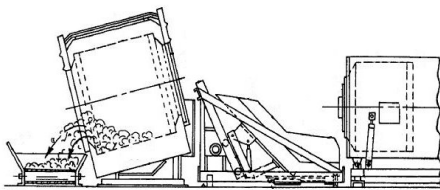
Laundry systems or arrangements of apparatus or machines; Mobile laundries
([D06F 31/00](#) takes precedence)

Definition statement

This place covers:

Industrial laundry arrangements comprising a combination of laundry sorting and/or transporting and/or treating appliances.

Illustrative example of subject matter classified in this group.



References

Limiting references

This place does not cover:

Washing installations comprising an assembly of several washing machines or washing units	D06F 31/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Laundries as buildings	E04H
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D06F 95/002

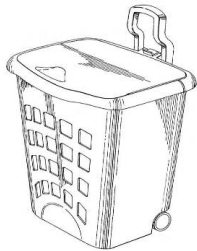
{Baskets or bags specially adapted for holding or transporting laundry;
Supports therefor}

Definition statement

This place covers:

Basket or bags for holding or transporting laundry.

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Sack holders	B65B 67/12 , B65B 67/1205
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D06F 95/004

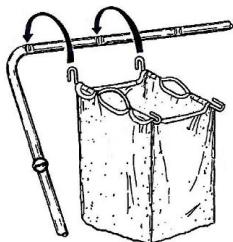
{Bags; Supports therefor}

Definition statement

This place covers:

Supports for bags for holding or transporting laundry.

Illustrative example of subject matter classified in this group.



D06F 95/006

{Bags for holding the laundry during washing ([D06F 5/005](#) takes precedence)}

Definition statement

This place covers:

Bags for holding or transporting laundry, which are suitable for being washed together with their content.

Illustrative example of subject matter classified in this group.



D06F 95/008

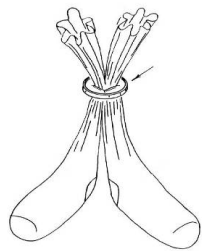
{Devices for keeping articles together during laundering, e.g. for keeping socks in pairs ([D06F 95/004](#) takes precedence); Devices for protecting or shielding certain parts of the articles during laundering, e.g. button protectors}

Definition statement

This place covers:

Devices for shielding delicate clothing articles (e.g. brassieres) and/or for keeping small articles (e.g. socks) together.

Illustrative example of subject matter classified in this group.



References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Clothes pegs	D06F 55/00
Pairing socks	A41B 11/002
Friction grip fastenings / using pivoting jaws	F16B 2/10