CPC  COOPERATIVE PATENT CLASSIFICATION

C  CHEMISTRY; METALLURGY
  (NOTES omitted)

CHEMISTRY

C11  ANIMAL OR VEGETABLE OILS, FATS, FATTY SUBSTANCES OR WAXES; FATTY ACIDS THEREFROM; DETERGENTS; CANDLES

C11D  DETERGENT COMPOSITIONS (preparations specially adapted for washing the hair A61Q 5/02, A61K 8/00; methods or apparatus for disinfection or sterilisation A61L; special washing compositions for cleaning semi-permeable membranes B01D 65/06); USE OF SINGLE SUBSTANCES AS DETERGENTS; SOAP OR SOAP-MAKING; RESIN SOAPS; RECOVERY OF GLYCEROL

NOTE
Documents classified in groups C11D 1/37, C11D 1/645 - C11D 1/655, C11D 1/825 - C11D 1/86, C11D 1/94 - C11D 1/945 and C11D 10/00 - C11D 10/047, are indexed using codes chosen from C11D 1/00 - C11D 1/92 to provide information on the individual ingredients on the compositions

WARNINGS
1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
   - C11D 1/68 covered by C11D 3/2003
   - C11D 1/70 covered by C11D 3/2003
   - C11D 3/44 covered by C11D 3/43
   - C11D 3/60 covered by C11D 3/00
   - C11D 7/18 covered by C11D 3/39
   - C11D 7/38 covered by C11D 3/39
   - C11D 7/42 covered by C11D 3/386
   - C11D 7/52 covered by C11D 7/50
   - C11D 7/54 covered by C11D 3/386
   - C11D 7/56 covered by C11D 3/395
   - C11D 7/60 covered by C11D 3/395
   - C11D 9/50 covered by C11D 3/48
   - C11D 9/60 covered by C11D 9/00
   - C11D 10/02 covered by C11D 3/00
   - C11D 10/06 covered by C11D 9/00
2. 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.

1/00  Detergent compositions based essentially on surface-active compounds; Use of these compounds as a detergent

NOTE
In groups C11D 1/02 - C11D 1/94, in the absence of an indication to the contrary, a compound is classified in the last appropriate place.

1/008 . (Polymeric surface-active agents (see C11D 1/48, C11D 1/662, C11D 1/76))
1/02 . Anionic compounds ([C11D 1/002, C11D 1/004, C11D 1/008 take precedence])
1/04 . . Carboxylic acids or salts thereof [see also C11D 9/005]
1/06 . . . Ether- or thioether carboxylic acids
1/08 . . . Polycarboxylic acids containing no nitrogen or sulfur
1/10 . . . Amino-carboxylic acids; Imino-carboxylic acids; Fatty acid condensates thereof ([betaines C11D 1/90])
1/12 . . . Sulfonic acids or sulfuric acid esters; Salts thereof
1/123 . . . [derived from carboxylic acids, e.g. sulfo succinates (from fatty acids see C11D 1/28)]
1/126 . . . [Acylisethionates]
of unknown constitution {, e.g. natural products}.

Mixtures of anionic with cationic compounds

Mixtures of anionic compounds with carboxylic amides or alkylol amides

Mixtures of sulfonated products with alkylolamides of carboxylic acids

WARNING

Until September 2008, when classification was made, group C11D 3/066 took precedence over group C11D 1/655

Non-ionic compounds {C11D 1/002; C11D 1/004, C11D 1/008 take precedence}

Carbohydrates or derivatives

Phosphine oxides

Sulfoxides

WARNING

Until September 2008, when classification was made, group C11D 3/075 took precedence over group C11D 1/72

Ethers of polyoxyalkylene glycols having mixed oxalkylene groups; {Polyalkoxylated fatty alcohols or polylalkoxylated alkylaryl alcohols with mixed oxalkylene groups (C11D 1/721 takes precedence)}

Ethers of polyoxyalkylene glycols

Amino oxides

Sulfoxides

Synthetic resins containing no nitrogen

Neutral esters of acids of phosphorus

Phosphate oxides

Derivatives of lignin containing no sulfite- or sulfate groups

Compounds containing silicon

Mixtures of compounds all of which are non-ionic

{containing a combination of compounds differently alcoxylised or with differently alkylated chains}

Mixtures of non-ionic with anionic compounds

Sulfonation products derived from fatty acids

Sulfonation products derived from lignin

Sulfates of polyoxyalkylene ethers or their derivatives, e.g. esters, amides

Sulfates of polyoxyalkylene ethers

Sulfonation products derived from heterocyclic compounds

Sulfonation products derived from aromatic compounds

Sulfonation products derived from amino alcohols

Sulfonation products derived from divalent or polyvalent alcohols

Sulfimation products derived from lignin

Sulfates of polyoxyalkylene ethers

Sulfates of polyoxyalkylene ethers

Protein hydrolysates; Fatty acid condensates

Ethers of polyoxyalkylene glycols

Ethers of polyoxyalkylene groups; {Polyalkoxylated fatty alcohols or polyalkoxylated alkylaryl alcohols with mixed oxalkylene groups (C11D 1/721 takes precedence)}

Ethers of polyoxyalkylene glycols

Amino alcohols or amino ethers

Ethers of polyoxyalkylene amides with amino alcohols; Condensation products of epoxyalkanes with amines

Esters of carboxylic acids with amino alcohols; Esters of amino carboxylic acids with alcohols

Esters of amino carboxylic acids with alcohols

N-containing polycondensation products

Derivatives of urea, thiourea, cyanamide, guanidine or urethanes

Carboxylic aldehydes, alkylolamides or imides {or their condensation products with alkylene oxides}

WARNING

Until September 2008, when classification was made, group C11D 3/075 took precedence over group C11D 1/72

Ethers of polyoxyalkylene glycols

Amino oxides

Sulfoxides

Synthetic resins containing no nitrogen

Neutral esters of acids of phosphorus

Phosphate oxides

Derivatives of lignin containing no sulfite- or sulfate groups

Compounds containing silicon

Mixtures of compounds all of which are non-ionic

{containing a combination of compounds differently alcoxylised or with differently alkylated chains}

Mixtures of non-ionic with anionic compounds

Sulfonation products derived from fatty acids

Sulfonation products derived from lignin

Sulfates of polyoxyalkylene ethers or their derivatives, e.g. esters, amides

Sulfates of polyoxyalkylene ethers

Sulfonation products derived from heterocyclic compounds

Sulfonation products derived from aromatic compounds

Sulfonation products derived from amino alcohols

Sulfonation products derived from divalent or polyvalent alcohols

Sulfonation products derived from lignin

Sulfates of polyoxyalkylene ethers

Sulfates of polyoxyalkylene ethers

Protein hydrolysates; Fatty acid condensates

Ethers of polyoxyalkylene glycols

Ethers of polyoxyalkylene groups; {Polyalkoxylated fatty alcohols or polyalkoxylated alkylaryl alcohols with mixed oxalkylene groups (C11D 1/721 takes precedence)}

Ethers of polyoxyalkylene glycols

Amino alcohols or amino ethers

Ethers of polyoxyalkylene amides with amino alcohols; Condensation products of epoxyalkanes with amines

Esters of carboxylic acids with amino alcohols; Esters of amino carboxylic acids with alcohols

Esters of amino carboxylic acids with alcohols

N-containing polycondensation products

Derivatives of urea, thiourea, cyanamide, guanidine or urethanes

Carboxylic aldehydes, alkylolamides or imides {or their condensation products with alkylene oxides}

WARNING

Until September 2008, when classification was made, group C11D 3/075 took precedence over group C11D 1/72
3/00 Other compounding ingredients of detergent compositions covered in group C11D 1/00

NOTE
Documents classified in group C11D 3/0005 are also classified in other groups of subclass C11D according to the chemical nature of the compounds as such

3/0005 . . . [Other compounding ingredients characterised by their effect]
3/001 . . . [Softening compositions]
3/0015 . . . [liquid]
3/0021 . . . [Dye-stain or dye-transfer inhibiting compositions]
3/0026 . . . [Low foaming or foam regulating compositions]
3/0031 . . . [Carpet, upholstery, fur, and leather cleansers]
3/0036 . . . [Soil deposition preventing compositions; Antiredeposition agents]
3/0042 . . . [Reducing agents]
3/0047 . . . [pH regulated compositions]
3/0052 . . . [Gas evolving or heat producing compositions]
3/0057 . . . [Oven-cleaning compositions]
3/0063 . . . [Photo-activating compounds]
3/0068 . . . [Deodorant compositions]
3/0073 . . . [Anticorrosion compositions]
3/0078 . . . [Compositions for cleaning contact lenses, spectacles, lenses (disinfecting contact lenses A61L 2/00; mechanical cleaning G02C 13/00)]

NOTE
In groups C11D 3/02 - C11D 3/39, in the absence of an indication to the contrary, a compound is classified in the last appropriate place.

3/0084 . . . [Antioxidants; Free-radical scavengers]
3/0089 . . . [Pearlescent compositions; Opacifying agents]
3/0094 . . . [High foaming compositions]
3/02 . . . Inorganic compounds [:; Elemental compounds]
3/04 . . . Water-soluble compounds
3/042 . . . [Acids]
3/044 . . . [Hydroxides, bases]
3/046 . . . [Salts]
3/048 . . . [Nitrites, nitrates]

3/06 . . . Phosphates, including polyphosphates

WARNING
From October 2008 onwards, the following subgroups of C11D 3/06 are no longer used for the classification of new documents

3/062 . . . [Special methods concerning phosphates]
3/065 . . . in admixture with sulfonated products
3/066 . . . and with alkylamidoes of carboxylic acids
3/07 . . . in admixture with alkylamidoes of carboxylic acids
3/075 . . . in admixture with ethers of polyoxyalkylenes
3/08 . . . Silicates
3/10 . . . Carbonates [:; Bicarbonates]
3/12 . . . Water-insoluble compounds
3/1206 . . . [free metals, e.g. aluminium grit or flakes]
3/1213 . . . [Oxides, hydroxides, e.g. Al₂O₃, TiO₂, CaO, Ca(OH)₂]
3/122 . . . [Sulfur-containing, e.g. sulfates, sulfites, gypsum]
3/1226 . . . [Phosphorus containing]
3/1233 . . . [Carbonates, e.g. calcite, dolomite]
3/124 . . . [Silicon containing, e.g. silica, silex, quartz, glass beads]
3/1246 . . . [Silicates, e.g. diatomaceous earth]
3/1253 . . . [Layer silicates, e.g. talcum, kaolin, clay, bentonite, smectite, montmorillonite, hectorite, attapulgite]
3/126 . . . . . . . [in solid compositions]
3/1266 . . . . . . . [in liquid compositions]
3/1273 . . . . . . . [Crystalline layered silicates of type NaMeSixO2x+1YH2O]
3/128 . . . . . . . [Aluminium silicates, e.g. zeolites (C11D 3/1253 takes precedence)]
3/1286 . . . . . . . [Stabilised aqueous aluminosilicate suspensions]
3/1293 . . . . . . . [Feldspar; Perlite; Pumice; Portland cement]
3/14 . . . Fillers; Abrasives; [Abrasive compositions; Suspending or absorbing agents not provided for in one single group of C11D 3/12; Specific features concerning abrasives, e.g. granulometry, mixtures (dyes, pigments C11D 3/40)]
3/16 . . . Organic compounds
3/162 . . . [containing Si]
3/164 . . . [containing a carbon-carbon triple bond]
3/166 . . . [containing borium]
3/168 . . . [Organometallic compounds or organometal complexes]
3/18 . . . Hydrocarbons ([C11D 3/164 takes precedence])
3/181 . . . [linear]
3/182 . . . [branched]
3/184 . . . [unsaturated]
3/185 . . . [cyclic]
3/187 . . . [aromatic]
3/188 . . . [Terpenes]
3/2003 . . . [Alcohols; Phenols]

NOTES
1. In this group glucose is not taken into account for applying the last place rule, when present in a mixture of alcohols or as an alternative from a series of alcohols.

3/2006 . . . [Monohydric alcohols]
3/201 . . . . . . [linear]
3/202 . . . . . . [fatty or with at least 8 carbon atoms in the alkyl chain]
3/203 . . . . . . [branched]
3/204 . . . . . . [cyclic; polycyclic]
3/205 . . . . . . [unsaturated]
3/206 . . . . . . [fatty or with at least 8 carbon atoms in the alkyl chain]
3/207 . . . . . . [aromatic]
3/208 . . . . . . [Terpenes]
3/209 . . . . . . [Dihydrate alcohols]
3/210 . . . . . . [linear]
3/211 . . . . . . [branched]
3/212 . . . . . . [cyclic; polycyclic]
3/213 . . . . . . [unsaturated]
3/214 . . . . . . [aromatic]
3/215 . . . . . . [Terpene]
3/216 . . . . . . [Polyhydric alcohols]
3/217 . . . . . . [Ethers]
3/218 . . . . . . [Aldehydes-ketones]
3/219 . . . . . . [Carboxylic acids-salts thereof]
3/220 . . . . . . [monicarboxylic acids-salts thereof (soaps C11D 1000 - C11D 1004)]
3/221 . . . . . . [Polyoxymethylene alcohols] (AMDOX)
3/222 . . . . . . [Hydroxy carboxylic acids-salts thereof]
3/223 . . . . . . [ether carboxylic acids-salts thereof]
3/224 . . . . . . [Ether acids-salts thereof]
3/225 . . . . . . [Esters; Carbonates]
3/226 . . . . . . [Heterocyclic compounds]
3/227 . . . . . . [Carbohydrates or derivatives thereof (graft polymers C11D 3/3788)]
3/228 . . . . . . [Mono, di- or trisaccharides or derivatives thereof]
3/229 . . . . . . [Natural or synthetic polysaccharides, e.g. cellulose, starch, gum, alginic acid, cyclodextrin]
3/230 . . . . . . [oxidised]
3/231 . . . . . . [etherified, e.g. CMC]
3/232 . . . . . . [esterified]
3/233 . . . . . . [with nitrogen-containing groups]
3/234 . . . . . . [with phosphorus- or sulfur-containing groups]
3/235 . . . . . . [containing halogen]
3/236 . . . . . . [containing fluorine]
3/237 . . . . . . [containing nitrogen]

3/245 . . . . . . containing fluorine
3/28 . . . . . . Heterocyclic compounds containing nitrogen in the ring
3/30 . . . . . . Amines; Substituted amines [Quaternized amines]
3/32 . . . . . . Amidites; Substituted amidites
3/323 . . . . . . [urea or derivatives thereof]
3/33 . . . . . . Amino carboxylic acids

NOTES
1. In this group in the absence of an indication to the contrary sulfur containing compounds are classified in the last appropriate place (see Note before group C11D 3/349) and indexed for the individual functional groups using codes chosen from C11D 3/349 - C11D 3/349.
2. In cases of mixtures or a list of alternatives or Markush formulae each individual compound is classified and indexed according to Note 1.

3/3409 . . . [Alkyl,-alkenyl,-cycloalkyl-or terpene sulfates or sulfones]
3/3418 . . . [Toluene-, xylene-, cumene-, benzene- or naphthalene sulfonates or sulfates]
3/3427 . . . [containing thiol, mercapto or sulfide groups, e.g. thioethers, mercaptates]
3/3436 . . . [containing disulfide groups]
3/3445 . . . [containing sulfino groups, e.g. dimethyl sulfoxide]
3/3454 . . . [containing sulfone groups, e.g. vinyl sulfones]
3/3463 . . . [containing thio sulfite or sulfite groups]
3/3472 . . . [additionally containing -COOH groups or derivatives thereof]
3/3481 . . . [containing sulfur in a heterocyclic ring, e.g. sultones, sulfolanes]
3/349 . . . [additionally containing nitrogen atoms, e.g. nitro, nitroso, amino, imino, nitrirole nitrile groups containing compounds or their derivatives, thio urea]
3/361 . . . [Phosphates, phosphinites, phosphonites]
3/362 . . . [Phosphates, phosphites]
3/364 . . . [containing nitrogen]
3/365 . . . [containing carboxyl groups]
3/367 . . . [containing halogen]
3/368 . . . [containing fluorine]
3/37 . . . [Polymers ((polymer surface-active agents C11D 1/008; carbohydrates C11D 3/22))]
3/3703 . . . [Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds]
3/3707 . . . [Polyethers, e.g. polyalkyleneoxides]
3/3711 . . . [Polyacetal carboxylates]
3/3715 . . . [Polysters; Polycarbonates]
3/3719 . . . [Polyamides; Polymides]
3/3723 . . . [Polymines, polyalkyleneimines]
3/3726 . . . [Polymethylene oxides]
3/373 . . . [containing silicones]
3/3734 . . . [Cyclic silicones]
3/3738 . . . [Alkoxylated silicones]
3/3742 . . . [Nitrogen containing silicones]
Organic or inorganic per-compounds combined with specific additives

Natural products

Products with no well-defined composition, e.g.

2. In case of mixtures or a list of alternatives

1. In the absence of an indication to the contrary, in groups C11D 7/02 - C11D 7/46 a compound is classified in the last appropriate place.

NOTE

In the absence of an indication to the contrary, in groups C11D 7/02 - C11D 7/46 a compound is classified in the last appropriate place.

Non-surface-active compounds

7/00 Compositions of detergents based essentially on non-surface-active compounds

NOTE

In the absence of an indication to the contrary, in groups C11D 7/02 - C11D 7/46 a compound is classified in the last appropriate place.

7/02 . Inorganic compounds
7/04 . Water-soluble compounds
7/06 . Hydroxides
7/08 . Acids
7/10 . Salts
7/10 . [Nitrates, Nitrites]
7/12 . Carbamates [bicarbonates]
7/14 . Silicates
7/16 . Phosphates including polyphosphates
Non-surface-active compounds

[...]

Soap detergents

9/00 Compositions of detergents based essentially on soap (compositions containing resin soap)

9/002 [Non alkali-metal soaps]

9/005 [Synthetic soaps (see also C11D 1/04)]

9/007 [Soaps or soap mixtures with well defined chain length]

9/02 on alkali or ammonium soaps

9/04 containing compounding ingredients other than soaps

9/045 containing substances which prevent the deterioration of soaps, e.g. light or heat stabilisers, antioxidants

NOTE

In groups C11D 9/06 - C11D 9/42, in the absence of an indication to the contrary, a compound is classified in the last appropriate place.

9/06 Inorganic compounds

9/08 Water-soluble compounds

9/10 Salts

9/12 Carbonates

9/14 Phosphates; Polyphosphates

9/16 Borates

9/18 Water-insoluble compounds

9/20 Fillers, abrasives

9/22 Organic compounds, e.g. vitamins

9/225 Polymers

9/24 Hydrocarbons (C11D 9/225 takes precedence)

9/26 containing oxygen (C11D 9/225 takes precedence)

9/262 containing carbohydrates

9/265 containing glycerol

9/267 containing free fatty acids (see also C11D 9/48)

9/28 containing halogen (C11D 9/225 takes precedence)

9/30 containing nitrogen (C11D 9/225 takes precedence)

9/32 containing sulfur (C11D 9/225 takes precedence)

7/5063 [Halogenated hydrocarbons containing heteroatoms, e.g. fluoro alcohols]

7/5068 Mixtures of halogenated and non-halogenated solvents

7/5072 Mixtures of only hydrocarbons

7/5077 Mixtures of only oxygen-containing solvents

7/5081 the oxygen-containing solvents being alcohols only

7/5086 the oxygen-containing solvents being different from alcohols, e.g. mixtures of water and ethers

7/509 Mixtures of hydrocarbons and oxygen-containing solvents

7/5095 Mixtures including solvents containing other heteroatoms than oxygen, e.g. nitriles, amides, nitroalkanes, siloxanes, thioethers

NOTE

In this group, classification is made in the first appropriate place.

7/5009 containing phosphorus, sulfur or silicon, e.g. dimethylsulfoxide

7/5013 containing nitrogen

7/5018 Halogenated solvents

7/5022 containing oxygen

7/5027 Hydrocarbons

7/5031 Azeotropic mixtures of non-halogenated solvents

7/5036 Azeotropic mixtures containing halogenated solvents

7/504 all solvents being halogenated hydrocarbons

7/5045 Mixtures of (hydro)chlorofluorocarbons

7/505 Mixtures of (hydro)fluorocarbons

7/5054 Mixtures of (hydro)chlorofluorocarbons and (hydro)fluorocarbons

7/5059 Mixtures containing (hydro)chlorocarbons
Soap detergents

11/00 Compositions of detergents, not provided for by one single preceding group
11/04 . based on mixtures of surface-active non-soap compounds and soap
11/042 . [based on anionic surface-active compounds and soap]
11/045 . [based on non-ionic surface-active compounds and soap]
11/047 . [based on cationic surface-active compounds and soap]

11/00 Special methods for preparing compositions containing mixtures of detergents (in the form of blocks, bars, tablets C11D 17/0047); Methods for using cleaning compositions
11/0005 . [Special cleaning and washing methods]
11/0011 . [characterised by the objects to be cleaned]
11/0017 . [“Soft” surfaces, e.g. textiles]
11/0023 . [“Hard” surfaces]
11/0029 . . . [Metals (degreasing metals C23G 5/00)]
11/0035 . . . [Glass; Plastics]
11/0041 . . . [Industrial or commercial equipment, e.g. reactors, tubes, engines (C11D 11/0047 takes precedence)]
11/0047 . . . [Electronic devices, e.g. PCBs, semiconductors]
11/0052 . . . [Mineral surfaces, e.g. stones, frescoes, plaster, walls, concrete]
11/0058 . . . [involving the application of foam or a temporary coating on the surface to be cleaned]
11/0064 . . . [Multi-step methods]
11/007 . . . [involving applying energy, e.g. irradiation]
11/0076 . . . [Regeneration of cleaning solutions]
11/0082 . . [one or more of the detergent ingredients being in a liquefied state, e.g. slurry, paste, melt, and the process resulting in solid detergent particles such as granules, powders or beads]
11/0088 . . [the liquefied ingredients being sprayed or adsorbed onto solid particles]
11/0094 . . [Process for making liquid detergent compositions, e.g. slurries, pastes, gels]
11/02 . Preparation in the form of powder by spray drying
11/04 . by chemical means, e.g. by sulfonating in the presence of other compounding ingredients followed by neutralising

Soap or soap-making: Resin soaps

13/00 Making of soap or soap solutions in general; Apparatus therefor (resin soap C11D 15/00)
13/02 . Boiling soap; Refining
13/04 . Continuous methods therefor
13/06 . Bleaching of soap or soap solutions
13/08 . Colouring, [e.g. striated bars, striped bars] or perfuming
13/10 . Mixing; Kneading
13/12 . Cooling (C11D 13/14 takes precedence)
13/14 . Shaping
13/16 . In moulds
13/18 . by extrusion or pressing
13/20 . in the form of small particles, e.g. powder, flakes (by slicing C11D 13/24)
13/22 . Cutting
13/24 . Slicing soap on the cooling drum
13/26 . Drying (drying ovens F27)
13/28 . Embossing; Polishing
13/30 . Recovery of soap, e.g. from spent solutions

15/00 Manufacture of resin soap or soaps derived from naphthenic acids; Compositions
15/02 . Apparatus therefor
15/04 . Compositions containing resin soap or soap derived from naphthenic acids

17/00 Detergent materials characterised by their shape or physical properties ([soaps C11D 9/00, shaping soap C11D 13/00])
17/0004 . [Non aqueous liquid compositions comprising insoluble particles]

WARNING

This subgroup is not longer used for the classification of new documents from 01 November 2011
Soap or soap-making; Resin soaps

C11D

17/0073 . . . {Tablets}
17/0078 . . . . {Multilayered tablets}
17/0082 . . . . {Coated tablets}
17/0086 . . . . {Laundry tablets}
17/0091 . . . . {Dishwashing tablets}
17/0095 . . . . {Solid transparent soaps or detergents}
17/02 . . Floating bodies of detergents {or of soaps}
17/04 . . combined with or containing other objects
17/041 . . . . {Compositions releasably affixed on a substrate or incorporated into a dispensing means}
17/042 . . . . {Water soluble or water disintegrable containers or substrates containing cleaning compositions or additives for cleaning compositions (packaging of disintegrable, dissolvable or edible materials B65D 65/46)}
17/043 . . . . {Liquid or thixotropic (gel) compositions}
17/044 . . . . {Solid compositions}
17/045 . . . . {Multi-compartment}
17/046 . . . . {Insoluble free body dispenser}
17/047 . . . . {Arrangements specially adapted for dry cleaning or laundry dryer related applications}
17/048 . . . . {Soap or detergent bars or cakes with an inner core consisting of insoluble material (floating soaps C11D 17/02)}
17/049 . . . . {Cleaning or scouring pads; Wipes}
17/06 . . Powder; Flakes; Free-flowing mixtures; Sheets
17/065 . . . . {High-density particulate detergent compositions}
17/08 . . Liquid soap, {e.g. for dispensers}; capsuled
19/00 Recovery of glycerol from a saponification liquor (refining glycerol C07C 31/22)