CPC  COOPERATIVE PATENT CLASSIFICATION

C  CHEMISTRY; METALLURGY
(NOTES omitted)

CHEMISTRY

C11  ANIMAL AND VEGETABLE OILS, FATS, FATTY SUBSTANCES AND WAXES; FATTY ACIDS THEREFROM; DETERGENTS; CANDLES (edible oil or fat compositions A23)

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

WARNING
The following IPC groups are not used in the CPC system. Subject matter covered by these groups is classified in the following CPC groups:

C11D 1/00 - C11D 1/90

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.

1/00  .  [Surface-active compounds containing sulfur (SO₂ and SO₃), C11D 1/12; sulfonium compounds C11D 1/60; sulfoxides C11D 1/755; sulfobetaines C11D 1/92]

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

1/13  .  .  [derived from carboxylic acids, e.g. sulfosuccinates (from fatty acids see C11D 1/28)]

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

1/13  .  .  [derived from carboxylic acids, e.g. sulfosuccinates (from fatty acids see C11D 1/28)]
WARNING

Until September 2008, when classification was made, group C11D 3/006 took precedence over group C11D 1/655

1/66 . . . Non-ionic compounds {C11D 1/002, C11D 1/004, C11D 1/008 take precedence}

1/662 . . . Carbohydrates or derivatives

1/665 . . . Arsinic oxides

1/667 . . . Neutral esters, e.g. sorbitan esters; see also C11D 1/74 and C11D 1/78

1/72 . . . Ethers of polyoxyalkylene glycols

WARNING

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

1/721 . . . End blocked ethers

1/722 . . . Ethers of polyoxyalkylene glycols having mixed oxyalkylene groups; {Polyalkoxylated fatty alcohols or polyalkoxylated alkylaryl alcohols with mixed oxyalkylene groups (C11D 1/721 takes precedence)}

1/74 . . . Carboxylates or sulfonates [esters] of polyoxyalkylene glycols

1/75 . . . Amino oxides

1/755 . . . Sulfoxides

1/76 . . . Synthetic resins containing no nitrogen

1/78 . . . Neutral esters of acids of phosphorus

1/79 . . . Phosphine oxides

1/80 . . . Derivatives of lignin containing no sulfo- or sulfate groups

1/82 . . . Compounds containing silicon

1/825 . . . Mixtures of compounds all of which are non-ionic

1/8255 . . . {containing a combination of compounds differently alcoxylised or with differently alkoxyalkylated chains}

1/83 . . . Mixtures of non-ionic with anionic compounds

1/8305 . . . {containing a combination of non-ionic compounds differently alcoxylised or with different alkoxyalkylated chains}

1/831 . . . of sulfonates with ethers of polyoxyalkylene glycols without phosphates

1/835 . . . Mixtures of non-ionic with cationic compounds

1/528 . . . Carboxylic amides (R²-CO-NR¹R³), where at least one of the chains R¹, R² or R³ is interrupted by a functional group, e.g. a - NH-, -NR-, -CO-, or -CON- group (ethers C11D 1/526)

1/54 . . . Hydrazides of carboxylic acids

1/56 . . . containing nitro or nitroso groups

1/58 . . . Heterocyclic compounds

1/60 . . . Sulfonium or phosphonium compounds

1/62 . . . Quaternary ammonium compounds

1/64 . . . of unknown constitution, e.g. natural products

1/645 . . . Mixtures of compounds all of which are cationic

1/65 . . . Mixtures of anionic with cationic compounds

1/652 . . . (Mixtures of anionic compounds with carboxylic amides or alkylol amides)

1/655 . . . Mixtures of sulfonated products with alkylolamides of carboxylic acids

1/52 . . . Mixtures of non-ionic with cationic compounds

1/514 . . . derived from aliphatic hydrocarbons or mono-alcohols

1/5143 . . . [Sulfonic acid esters]

1/5146 . . . [Sulfuric acid esters]

1/516 . . . derived from divalent or polyvalent alcohols

1/518 . . . derived from amino alcohols

1/520 . . . Fatty acid condensates

1/522 . . . derived from aromatic compounds

1/524 . . . containing ester or ether groups directly attached to the nucleus

1/526 . . . derived from heterocyclic compounds

1/528 . . . Sulfonation products derived from fatty acids or their derivatives, e.g. esters, amides

1/529 . . . Sulfates of polyoxyalkylene ethers

1/530 . . . Sulfonation products derived from lignin

1/532 . . . Protein hydrolysates; Fatty acid condensates thereof

1/534 . . . Derivatives of acids of phosphorus

1/5342 . . . [Phosphonates; Phosphinates; Phosphonites]

1/5345 . . . [Phosphates; Phosphites]

1/5347 . . . [Other P-containing anionic compounds (C11D 1/006, C11D 1/34 take precedence)]

1/536 . . . of unknown constitution, e.g. natural products

1/537 . . . Mixtures of compounds all of which are anionic

1/538 . . . Cationic compounds {C11D 1/002, C11D 1/004, C11D 1/008 take precedence}

1/5385 . . . Cationic compounds containing P (phosphonium compounds C11D 1/60)

1/540 . . . Monoamines or polyamines; Salts thereof

1/542 . . . Amino alcohols or amino ethers

1/544 . . . Ethers of polyoxyalkylenes with amino alcohols; Condensation products of epoxalkanes with amines

1/546 . . . Esters of carboxylic acids with amino alcohols; Esters of amino carboxylic acids with alcohols

1/548 . . . N-containing polycondensation products

1/550 . . . Derivatives of urea, thiourea, cyanamide, guanidine or urethanes

1/552 . . . Carboxylic amides, alkylolamides or imides or their condensation products with alkyne oxides

WARNING

Until September 2008, when classification was made, group C11D 3/075 took precedence over group C11D 1/52

1/521 . . . [Carboxylic amides (R¹-CO-NR²R³), where R¹, R² and R³ are alkyl or alkyl groups]

1/523 . . . [Carboxylic alkylolamides, or dialkylolamides, or hydroxycarbonylic amides (R¹-CO-NR²R³), where R¹, R² or R³ contain one hydroxy group per alkyl group]

1/525 . . . [Carboxylic amides (R¹-CO-NR²R³), where R¹, R² or R³ contain two or more hydroxy groups per alkyl group, e.g. R¹ being a reducing sugar rest]

1/526 . . . [Carboxylic amides (R¹-CO-NR²R³), where R¹, R² or R³ are polyalkoxylated]
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.

3/005 . . . [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; Antideposition 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 . . . [Nitrates, nitrites]
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:

3/2003 . . . [Alcohols; Phenols]

**NOTES**

1. In this group glucorol 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]
3/2013 . . . . [fatty or with at least 8 carbon atoms in the alkyl chain]
3/2017 . . . . [branched]
3/202 . . . . . [fatty or with at least 8 carbon atoms in the alkyl chain]
3/2024 . . . . [cyclic; polycyclic]
3/2027 . . . . . [unsaturated]
3/2031 . . . . [fatty or with at least 8 carbon atoms in the alkyl chain]
3/2034 . . . . (aromatic)
3/2037 . . . . [Terpenes]
3/2041 . . . . [Dihydric alcohols]
3/2044 . . . . [linear]
3/2048 . . . . [branched]
3/2051 . . . . [cyclic; polycyclic]
3/2055 . . . . . [unsaturated]
3/2058 . . . . (aromatic)
3/2062 . . . . [Terpene]
3/2065 . . . . [Polyhydric alcohols]
3/2068 . . . . [Ethers]
3/2072 . . . . [Aldehydes-ketones]
3/2075 . . . . [Carboxylic acids-salts thereof]
3/2079 . . . . [Monocarboxylic acids-salts thereof (soaps C11D 10/00 - C11D 10/04)]
3/2082 . . . . [Polycarboxylic acids-salts thereof]
3/2086 . . . . [Hydroxy carboxylic acids-salts thereof]
3/2089 . . . . [Ether acides-salts thereof]
3/2093 . . . . [Esters; Carbonates]
3/2096 . . . . [Heterocyclic compounds]
3/22 . . . . Carbohydrates or derivatives thereof ([graft polymers C11D 3/3788])
3/221 . . . . [Mono, di- or trisaccharides or derivatives thereof]
3/222 . . . . [Natural or synthetic polysaccharides, e.g. cellulose, starch, gum, alginic acid, cyclodextrin]
3/223 . . . . . [oxidised]
3/225 . . . . . [etherified, e.g. CMC]
3/226 . . . . . [esterified]
3/227 . . . . . [with nitrogen-containing groups]
3/228 . . . . . [with phosphorus- or sulfur-containing groups]
3/245 . . . . [containing fluorine]

3/28 . . . . Heterocyclic compounds containing nitrogen in the ring
3/30 . . . . Amines; Substituted amines [; Quaternized amines]
3/32 . . . . Amides; Substituted amides
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 3/00) and indexed for the individual functional groups using codes chosen from C11D 3/3409 - C11D 3/349

2. In case of mixtures or a list of alternatives or Markush formulae each individual compound is classified and indexed according to Note 1.
3/3746 . . . [Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds]
3/3749 . . . [Polyolefins; Halogenated polyolefins; Natural or synthetic rubber; Polyaryleolefins; Halogenated polaryleolefins]
3/3753 . . . [Polyvinylalcohol; Ethers or esters thereof]
3/3757 . . . [(Co)polymerised carboxylic acids, -anhdyrides, -esters in solid and liquid compositions]
3/3761 . . . [in solid compositions]
3/3765 . . . [in liquid compositions]
3/3769 . . . [(Co)polymerised monomers containing nitrogen, e.g. carbonamides, nitriles, amines]
3/3773 . . . [in liquid compositions]
3/3776 . . . [Heterocyclic compounds, e.g. lactam]
3/378 . . . [(Co)polymerised monomers containing sulfur, e.g. sulfonate]
3/3784 . . . [(Co)polymerised monomers containing phosphorus]
3/3788 . . . [Graft polymers]
3/3792 . . . [Amine oxide containing polymers]
3/3796 . . . [Amphoteric polymers; Zwitterionic polymers]
3/38 . . . Products with no well-defined composition, e.g. natural products]
3/381 . . . [Microorganisms]
3/382 . . . Vegetable products, e.g. soya meal, wood flour, sawdust
3/384 . . . Animal products
3/3845 . . . [Antibodies]
3/386 . . . Preparations containing enzymes, e.g. protease, amylase]
3/38609 . . . [Protease or amylase in solid compositions only]
3/38618 . . . [Protease or amylase in liquid compositions only]
3/38627 . . . [containing lipase]
3/38636 . . . [containing enzymes other than protease, amylase, lipase, cellulase, oxidase, reductase]
3/38645 . . . [containing cellulase]
3/38654 . . . [containing oxidase, reductase]
3/38663 . . . [Stabilised liquid enzyme compositions (chemically modified or immobilised enzymes C11D 3/386, C12N)]
3/38672 . . . [Granulated or coated enzymes]
3/38681 . . . [Chemically modified or immobilised enzymes]
3/3869 . . . [Enzyme enhancers or mediators]
3/39 . . . Organic or inorganic per-compounds
3/3902 . . . [combined with specific additives]
3/3905 . . . [Bleach activators; Bleach catalysts]

NOTES
1. In the absence of an indication to the contrary activators or catalysts are classified in the last appropriate place
2. In case of mixtures or a list of alternatives documents are classified in C11D 3/3905 or C11D 3/3907 only and indexed for the individual alternatives using codes chosen from C11D 3/3907 - C11D 3/3932

3/3907 . . . [Organic compounds]

3/391 . . . . . . [Oxygen-containing compounds]
3/3912 . . . . . . [derived from saccharides]
3/3915 . . . . . . [Sulfur-containing compounds]
3/3917 . . . . . . [Nitrogen-containing compounds]
3/392 . . . . . . [Heterocyclic compounds, e.g. cyclic imides or lactames]
3/3922 . . . . . . [Cyanamides]
3/3925 . . . . . . [Nitriles; Isocyanates; Quaternary ammonium nitriles]
3/3927 . . . . . . [Quaternary ammonium compounds (quaternary ammonium nitriles C11D 3/3925)]
3/393 . . . . . . [Phosphorus, boron- or silicon-containing compounds]
3/3932 . . . . . . [Inorganic compounds or complexes]
3/3935 . . . . . . [granulated, coated or protected]
3/3937 . . . . . . [Stabilising agents]
3/394 . . . . . . [Organic compounds]
3/3942 . . . . . . [Inorganic per-compounds (C11D 3/3902 takes precedence)]
3/3945 . . . . . . [Organic per-compounds (C11D 3/3902 takes precedence)]
3/3947 . . . . . . [Liquid compositions]
3/395 . . . . . . [Bleaching agents (per-compounds C11D 3/39)]
3/3951 . . . . . . [combined with specific additives]
3/3953 . . . . . . [Inorganic bleaching agents (C11D 3/3951 takes precedence)]
3/3955 . . . . . . [Organic bleaching agents (C11D 3/3951 takes precedence)]
3/3956 . . . . . . [Liquid compositions]
3/3958 . . . . . . [combined with phosphates]
3/40 . . . . . . [Dyes; Pigments]
3/42 . . . . . . [Brightening agents; Bleaching agents]
3/43 . . . . . . [Solvents]
3/48 . . . . . . [Medical, disinfecting agents, disinfecting, antibacterial, germicidal or antimicrobial compositions]
3/485 . . . . . . [Halophors, e.g. iodophors]
3/50 . . . . . . [Perfumes]
3/502 . . . . . . [ Protected perfumes]
3/505 . . . . . . [encapsulated or adsorbed on a carrier, e.g. zeolite or clay]
3/507 . . . . . . [Compounds releasing perfumes by thermal or chemical activation]

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
7/105 . . . [Nitrites; Nitrites]
7/12 . . . Carbonates [bicarbonates]
7/14 . . . Silicates
7/16 . . . Phosphates including polyphosphates
Non-surface-active compounds

7/20 . . . Water-insoluble oxides
7/22 . . . Organic compounds
7/24 . . . Hydrocarbons
7/241 . . . [linear]
7/242 . . . [branched]
7/244 . . . [unsaturated]
7/245 . . . [cyclic]
7/247 . . . [aromatic]
7/248 . . . [Terpenes]
7/26 . . . containing oxygen
7/261 . . . [Alcohols; Phenols]
7/262 . . . [fatty or with at least 8 carbon atoms in the alkyl or alkenyl chain]
7/263 . . . [Ethers]
7/264 . . . [Aldehydes; Ketones; Acetals; Ketals]
7/265 . . . [Carboxylic acids; Salts thereof]
7/266 . . . [Esters; Carbonates]
7/267 . . . [Heterocyclic compounds]
7/268 . . . [Carbohydrates; Derivatives thereof]
7/28 . . . containing halogen
7/30 . . . Halogenated hydrocarbons
7/32 . . . containing nitrogen
7/3209 . . . [Amines or imines with one to four nitrogen atoms; Quaternized amines]
7/3218 . . . [Alkanolamines; Alkanolamines]
7/3227 . . . [Ethers thereof]
7/3236 . . . [Aldehydes, ketones, acetics, ketals thereof]
7/3245 . . . [Aminocids]
7/3254 . . . [Esters or carbonates thereof]
7/3263 . . . [Amines; Imides]
7/3272 . . . [Urea; Guanidine; Derivatives thereof]
7/3281 . . . [Heterocyclic compounds]
7/329 . . . [Carbohydrate, derivatives thereof]
7/34 . . . containing sulfur
7/36 . . . containing phosphorus
7/40 . . . Products in which the composition is not well defined
7/44 . . . Vegetable products
7/46 . . . Animal products
7/50 . . . Solvents
7/5004 . . . [Organic solvents]

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]
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 azeotropes than oxygen, e.g. nitriles, amides, nitroalkanes, siloxanes, thioethers]

Soap detergents

9/00 Compositions of detergents based essentially on soap (compositions containing soap
C11D 15/04)
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])
Soap detergents

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9/34 . . . containing phosphorus [(C11D 9/225 takes precedence)]
9/36 . . . containing silicon [(C11D 9/225 takes precedence)]
9/38 . . . Products in which the composition is not well defined
9/40 . . . Proteins
9/42 . . . Per-compounds
9/44 . . . Perfumes; Colouring materials; Brightening agents [Bleaching agents]
9/442 . . . [Perfumes]
9/444 . . . [Dyes; Pigments]
9/446 . . . [Bleaching agents]
9/448 . . . [Brightening agents]
9/48 . . . Superfatting agents

10/00 Compositions of detergents, not provided for by one single preceding group
10/04 . . . based on mixtures of surface-active non-soap compounds and soap
10/042 . . . [based on anionic surface-active compounds and soap]
10/045 . . . [based on non-ionic surface-active compounds and soap]
10/047 . . . [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; 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
17/0013 . . . [Liquid compositions with insoluble particles in suspension (C11D 17/0021, C11D 17/0026, C11D 17/003 take precedence)]
17/0017 . . . [Multi-phase liquid compositions]
17/0021 . . . [Aqueous microemulsions]
17/0026 . . . [Structured liquid compositions, e.g. liquid crystalline phases, network containing non-Newtonian phase, (thixotropic solutions C11D 17/003)]
17/003 . . . [Colloidal solutions, e.g. gels; Thixotropic solutions; Pastes]
17/0034 . . . [Fixed on a solid conventional detergent ingredient]
17/0039 . . . [Coated compositions or coated components in the compositions, (micro)capsules]
17/0043 . . . [For use with aerosol devices]
17/0047 . . . [Detergents in the form of bars or tablets]
17/0052 . . . [Cast detergent compositions]
17/0056 . . . [Lavatory cleansing blocks]
17/006 . . . [containing mainly surfactants, but no builders, e.g. syndet bar]
17/0065 . . . [Solid detergents containing builders (C11D 17/06 takes precedence)]
17/0069 . . . [Laundry bars]
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}
17/043 . . . . {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)}
17/044 . . . . {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}
17/05 . . 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)