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

C11B PRODUCING, E.G. BY PRESSING RAW MATERIALS OR BY EXTRACTION FROM WASTE MATERIALS, REFINING OR PRESERVING FATS, FATTY SUBSTANCES, E.G. LANOLIN, FATTY OILS OR WAXES; ESSENTIAL OILS; PERFUMES (drying-oils C09F)

drying-oils C09F)

. by esterification of fatty acids with glycerol

3/02

PRODUC	CTION	REFININ	IG, PRESERVING, SOLIDIFYING3/00, 5/00,
	of fats or fatty oils		7/00, 15/00
	of other fatty substances11/00	ESSENT	IAL OILS, PERFUMES9/00
1/00	Production of fats or fatty oils from raw materials	3/14	with the use of indifferent gases or vapours,
1/02	. Pretreatment	0 / 1 -	e.g. steam
1/04	of vegetable raw material	3/16	. by mechanical means
1/06	. by pressing	5/00	Preserving by using additives, e.g. anti-oxidants
1/08	by hot pressing		, , , , , , , , , , , , , , , , , , ,
1/10	. by extracting	7/00	Separation of mixtures of fats or fatty oils into their
1/12	. by melting out		constituents, e.g. saturated oils from unsaturated oils
1/14	with hot water or aqueous solutions	9/00	Essential oils; Perfumes (synthesis of chemical
1/16	with steam		substances C07)
3/00	Refining fats or fatty oils	9/02	Recovery or refining of essential oils from raw materials
3/02	 by chemical reaction 		materials
3/04	with acids	11/00	Recovery or refining of other fatty substances,
3/06	with bases		e.g. lanolin, waxes (synthetic waxes C07, C08; mineral
3/08	with oxidising agents		waxes C10G)
3/10	 by adsorption 	13/00	Recovery of fats, fatty oils, or fatty acids from waste
		10,00	materials (mechanical separation from waste water
<u>Note</u>			C02F, E03F)
	When classifying in this group, classification is also	13/02	. from soap stock
	made in group B01D 15/08 insofar as subject matter of	13/04	from spent adsorption materials
	general interest relating to chromatography is	1=100	
	concerned. [8]	15/00	Solidifying fatty oils, fats, or waxes by physical processes
3/12	• by distillation		
	-		

C11C FATTY ACIDS FROM FATS, OILS OR WAXES; CANDLES; FATS, OILS OR FATTY ACIDS BY CHEMICAL MODIFICATION OF FATS, OILS, OR FATTY ACIDS OBTAINED THEREFROM

1/00	Preparation of fatty acids from fats, fatty oils, or waxes; Refining the fatty acids (recovery of fatty acids from waste materials C11B 13/00)	3/04 3/06 3/08	by esterification of fats or fatty oilswith glycerolwith fatty acids
1/02	. from fats or fatty oils	3/10	. Ester interchange
1/04	by hydrolysis	3/12	 by hydrogenation
1/06	using solid catalysts	3/14	 by isomerisation
1/08	. Refining		•
1/10	by distillation	5/00	Candles
	•	5/02	 Apparatus for preparation thereof
3/00	Fats, oils, or fatty acids by chemical modification of		
	fats, oils, or fatty acids obtained therefrom (sulfonated fats or oils C07C 309/62; factice C08H;		

- C11D DETERGENT COMPOSITIONS (preparations specially adapted for washing the hair A61K 8/00, A61Q 5/12; 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
- (1) When classifying in the mixture groups of this subclass, any individual ingredient of a composition which is not identified by such classification, and which itself is determined to be novel and non-obvious, must also be classified in groups C11D 1/00 to C11D 9/00. The individual ingredient can be either a single substance or a composition in itself. [8]
- (2) Any ingredient of a composition which is not identified by the classification according to Note (1) above, and which is considered to represent information of interest for search, may also be classified in groups C11D 1/00 to C11D 9/00. This can, for example, be the case when it is considered of interest to enable searching of compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information". [8]

Subclass index

SURFAC	E-ACTIVE DETERGENTS	DETERGENT MIXTURES 10/00, 11/00
	Non-soap	SOAP-MAKING; GLYCEROL13/00, 15/00;
	Based on soap9/00	19/00
NON-SU	RFACE-ACTIVE DETERGENTS7/00	SHAPE
Surface-a	active non-soap detergents	1/44 Ethers of polyoxyalkylenes with amino
1/00	Detergent compositions based essentially on surface- active compounds; Use of these compounds as a	alcohols; Condensation products of epoxyalkanes with amines 1/46 . Esters of carboxylic acids with amino alcohols;
	detergent	Esters of amino carboxylic acids with alcohols
Note		1/48 . N-containing polycondensation products
	In groups C11D 1/02 to C11D 1/88, in the absence of an	1/50 . Derivatives of urea, thiourea, cyanamide, guanidine or urethanes
	indication to the contrary, a compound is classified in the last appropriate place.	1/52 . Carboxylic amides, alkylolamides or imides (C11D 3/07 takes precedence)
		1/54 Hydrazides of carboxylic acids
1/02	. Anionic compounds	1/56 containing nitro or nitroso groups
1/04	. Carboxylic acids or salts thereof (soap C11D 9/00)	1/58 Heterocyclic compounds
1/06	Ether- or thioether carboxylic acids	1/60 Sulfonium or phosphonium compounds
1/08	Polycarboxylic acids containing no nitrogen or	1/62 Quaternary ammonium compounds
	sulfur	1/64 of unknown constitution
1/10	Amino carboxylic acids; Imino carboxylic	1/645 Mixtures of compounds all of which are cationic
1 /10	acids; Fatty acid condensates thereof	1/65 . Mixtures of anionic with cationic compounds
1/12	 Sulfonic acids or sulfuric acid esters; Salts thereof (C11D 3/065 takes precedence) derived from aliphatic hydrocarbons or mono- 	1/655 of sulfonated products with alkylolamides of carboxylic acids (C11D 3/066 takes
1/14	alcohols	precedence)
1/16	derived from divalent or polyvalent alcohols	1/66 . Non-ionic compounds1/68 . Alcohols: Oxidation products of paraffin wax.
1/18	derived from amino alcohols	1/68 . Alcohols; Oxidation products of paraffin wax, other than acids
1/20	Fatty acid condensates	1/70 Phenols
1/22 1/24	derived from aromatic compounds containing ester or ether groups directly	1/72 . Ethers of polyoxyalkylene glycols (C11D 3/075 takes precedence)
1/26	attached to the nucleus derived from heterocyclic compounds	1/722 Ethers of polyoxyalkylenes having mixed oxyalkylene groups [2]
1/28	Sulfonation products derived from fatty acids or their derivatives, e.g. esters, amides	1/74 . Carboxylates or sulfonates of polyoxyalkylene glycols
1/29	Sulfates of polyoxyalkylene ethers [2]	1/75 Amino oxides [2]
1/30	Sulfonation products derived from lignin	1/755 Sulfoxides [2]
1/32	Protein hydrolysates; Fatty acid condensates	1/76 Synthetic resins containing no nitrogen
1,02	thereof	1/78 . Neutral esters of acids of phosphorus
1/34	Derivatives of acids of phosphorus	1/79 Phosphine oxides [2]
1/36	of unknown constitution	1/80 . Derivatives of lignin containing no sulfo- or
1/37	Mixtures of compounds all of which are anionic	sulfate groups
1/29	. Cationic compounds	1/82 Compounds containing silicon
1/38		
1/40 1/42	. Monoamines or polyamines; Salts thereof. Amino alcohols or amino ethers	1/825 Mixtures of compounds all of which are non- anionic

1/831	of sulfonates with ethers of polyoxyalkylenes without phosphates	7/00	Compositions of detergents based essentially on non- surface-active compounds
1/835 1/86	Mixtures of non-ionic with cationic compounds Mixtures of anionic, cationic, and non-ionic	Note	
	compounds		In groups C11D 7/02 to C11D 7/22, in the absence of an
1/88	Ampholytes; Electroneutral compounds [2]Betaines [2]		indication to the contrary, a compound is classified in
1/90	Sulfobetaines [2]		the last appropriate place.
1/94	. Mixtures with anionic, cationic or non-ionic	7/02	. Inorganic compounds
	compounds [2]	7/04	Water-soluble compounds
3/00	Other compounding ingredients of detergent	7/06	Hydroxides
	compositions covered in group C11D 1/00	7/08	Acids
Note		7/10 7/12	Salts Carbonates
	In groups C11D 3/02 to C11D 3/39, in the absence of an	7/14	Silicates
	indication to the contrary, a compound is classified in	7/16	Phosphates including polyphosphates
	the last appropriate place. [2]	7/18	Peroxides; Persalts
		7/20	Water-insoluble oxides
3/02	. Inorganic compounds	7/22 7/24	Organic compoundsHydrocarbons
3/04 3/06	. Water-soluble compounds Phosphates, including polyphosphates	7/24	containing oxygen
3/065	in admixture with sulfonated products	7/28	containing halogen
3/066	and with alkylolamides of carboxylic	7/30	Halogenated hydrocarbons
	acids	7/32	containing nitrogen
3/07	in a mixture with alkylolamides of	7/34	containing sulfur
3/075	carbocyclic acids in admixture with ethers of	7/36 7/38	containing phosphorusPer-compounds
3/0/3	polyoxyalkylenes	7/40	Products in which the composition is not well
3/08	Silicates	77 10	defined
3/10	Carbonates	7/42	Preparations containing enzymes
3/12	Water-insoluble compounds	7/44	Vegetable products (C11D 7/42 takes
3/14	Pigments; Fillers; Abrasives . Organic compounds	7/46	precedence) Animal products (C11D 7/42 takes precedence)
3/16 3/18	Hydrocarbons	7/40	. Solvents [2]
3/20	containing oxygen	7/52	combined with promoters [2]
3/22	Carbohydrates or derivatives thereof	7/54	. Bleaching agents [2]
3/24	containing halogen	7/56	combined with phosphates [2]
3/26	containing nitrogen	7/60	. Mixtures of non-surface-active compounds [2]
3/28	Heterocyclic compounds containing nitrogen in the ring	Soap Det	organic
3/30	Amines; Substituted amines		
3/32	Amides; Substituted amides	9/00	Compositions of detergents based essentially on soap (compositions containing resin soap C11D 15/04)
3/33	Amino carboxylic acids [2]	9/02	on alkali or ammonium soaps
3/34	containing sulfur	9/04	 containing compounding ingredients other than soaps
3/36 3/37	containing phosphorus	••	
3/3/	. Polymers [2]. Products with no well-defined composition	<u>Note</u>	
3/382	Vegetable products, e.g. soya meal, wood flour,		In groups C11D 9/06 to C11D 9/42, in the absence of an
	sawdust [2]		indication to the contrary, a compound is classified in
3/384	Animal products [2]		the last appropriate place.
3/386 3/39	Preparations containing enzymes [2]	9/06	Inorganic compounds
3/39	Organic or inorganic per-compounds [2]Bleaching agents [2]	9/08	Water-soluble compounds
3/40	. Dyes [2]	9/10	Salts
3/42	Brightening agents [2]	9/12	Carbonates
3/43	. Solvents [2]	9/14	Postos
3/44	Mixed solvents	9/16 9/18	Borates Water-insoluble compounds
3/46 3/48	. Superfatting agents [2] Medicinal or disinfacting agents [2]	9/18	Pigments; Fillers; Abrasives
3/48 3/50	Medicinal or disinfecting agents [2]Perfumes [2]	9/22	. Organic compounds
3/60	Mixtures of compounding ingredients [2]	9/24	Hydrocarbons
		9/26	containing oxygen
		9/28	containing halogen

9/30	containing nitrogen	13/04	Continuous methods therefor
9/32	containing sulfur	13/06	Bleaching of soap or soap solutions
9/34	containing phosphorus	13/08	 Colouring or perfuming
9/36	containing silicon	13/10	. Mixing; Kneading
9/38	Products in which the composition is not well	13/12	 Cooling (C11D 13/14 takes precedence)
	defined	13/14	. Shaping
9/40	Proteins	13/16	in moulds
9/42	Per-compounds	13/18	by extrusion or by pressing
9/44	Perfumes; Colouring materials; Brightening agents	13/20	in the form of small particles, e.g. powder, flakes
9/48	Superfatting agents		(by slicing C11D 13/24)
9/50	Medicinal or disinfecting agents	13/22	. Cutting
9/60	Mixtures of compounding ingredients [2]	13/24	Slicing soap on the cooling drum
10/00	Compositions of detergents, not provided for by any	13/26	• Drying (drying ovens F27)
10/00	single one of main groups C11D 1/00 to C11D 9/00 [2]	13/28	. Embossing; Polishing
10/02	based on mixtures of surface-active non-soap and	13/30	. Recovery of soap, e.g. from spent solutions
10/02			
	non-surface-active compounds [2]	15/00	Manufacture of regin goon or goons derived from
10/04	non-surface-active compounds [2] based on mixtures of surface-active non-soap	15/00	Manufacture of resin soap or soaps derived from
10/04	non-surface-active compounds [2] based on mixtures of surface-active non-soap compounds and soap [2]		naphthenic acids; Compositions
10/04	. based on mixtures of surface-active non-soap	15/02	naphthenic acids; Compositions . Apparatus therefor
	 based on mixtures of surface-active non-soap compounds and soap [2] 		 naphthenic acids; Compositions Apparatus therefor Compositions containing resin soap or soap derived
10/06	 based on mixtures of surface-active non-soap compounds and soap [2] based on mixtures of non-surface-active compounds and soap [2] 	15/02	naphthenic acids; Compositions . Apparatus therefor
	 based on mixtures of surface-active non-soap compounds and soap [2] based on mixtures of non-surface-active compounds and soap [2] Special methods for preparing compositions 	15/02 15/04	naphthenic acids; Compositions Apparatus therefor Compositions containing resin soap or soap derived from naphthenic acids
10/06 11/00	 based on mixtures of surface-active non-soap compounds and soap [2] based on mixtures of non-surface-active compounds and soap [2] Special methods for preparing compositions containing mixtures of detergents 	15/02	naphthenic acids; Compositions . Apparatus therefor . Compositions containing resin soap or soap derived from naphthenic acids Detergent materials or soaps characterised by their
10/06 11/00 11/02	 based on mixtures of surface-active non-soap compounds and soap [2] based on mixtures of non-surface-active compounds and soap [2] Special methods for preparing compositions containing mixtures of detergents Preparation in the form of powder by spray-drying 	15/02 15/04	naphthenic acids; Compositions Apparatus therefor Compositions containing resin soap or soap derived from naphthenic acids
10/06 11/00	 based on mixtures of surface-active non-soap compounds and soap [2] based on mixtures of non-surface-active compounds and soap [2] Special methods for preparing compositions containing mixtures of detergents Preparation in the form of powder by spray-drying by chemical means, e.g. sulfonating in the presence 	15/02 15/04	naphthenic acids; Compositions Apparatus therefor Compositions containing resin soap or soap derived from naphthenic acids Detergent materials or soaps characterised by their shape or physical properties (shaping soap
10/06 11/00 11/02	 based on mixtures of surface-active non-soap compounds and soap [2] based on mixtures of non-surface-active compounds and soap [2] Special methods for preparing compositions containing mixtures of detergents Preparation in the form of powder by spray-drying 	15/02 15/04 17/00	naphthenic acids; Compositions Apparatus therefor Compositions containing resin soap or soap derived from naphthenic acids Detergent materials or soaps characterised by their shape or physical properties (shaping soap C11D 13/14) Floating bodies of detergents
10/06 11/00 11/02	 based on mixtures of surface-active non-soap compounds and soap [2] based on mixtures of non-surface-active compounds and soap [2] Special methods for preparing compositions containing mixtures of detergents Preparation in the form of powder by spray-drying by chemical means, e.g. sulfonating in the presence of other compounding ingredients followed by 	15/02 15/04 17/00	naphthenic acids; Compositions Apparatus therefor Compositions containing resin soap or soap derived from naphthenic acids Detergent materials or soaps characterised by their shape or physical properties (shaping soap C11D 13/14) Floating bodies of detergents combined with or containing other objects
10/06 11/00 11/02 11/04	 based on mixtures of surface-active non-soap compounds and soap [2] based on mixtures of non-surface-active compounds and soap [2] Special methods for preparing compositions containing mixtures of detergents Preparation in the form of powder by spray-drying by chemical means, e.g. sulfonating in the presence of other compounding ingredients followed by 	15/02 15/04 17/00 17/02 17/04	naphthenic acids; Compositions Apparatus therefor Compositions containing resin soap or soap derived from naphthenic acids Detergent materials or soaps characterised by their shape or physical properties (shaping soap C11D 13/14) Floating bodies of detergents
10/06 11/00 11/02 11/04 Soap or s	 based on mixtures of surface-active non-soap compounds and soap [2] based on mixtures of non-surface-active compounds and soap [2] Special methods for preparing compositions containing mixtures of detergents Preparation in the form of powder by spray-drying by chemical means, e.g. sulfonating in the presence of other compounding ingredients followed by neutralising 	15/02 15/04 17/00 17/02 17/04 17/06 17/08	naphthenic acids; Compositions Apparatus therefor Compositions containing resin soap or soap derived from naphthenic acids Detergent materials or soaps characterised by their shape or physical properties (shaping soap C11D 13/14) Floating bodies of detergents combined with or containing other objects Powder; Flakes; Free-flowing mixtures; Sheets Liquid soap; capsuled
10/06 11/00 11/02 11/04	 based on mixtures of surface-active non-soap compounds and soap [2] based on mixtures of non-surface-active compounds and soap [2] Special methods for preparing compositions containing mixtures of detergents Preparation in the form of powder by spray-drying by chemical means, e.g. sulfonating in the presence of other compounding ingredients followed by neutralising soap-making; Resin soaps Making of soap or soap solutions in general; 	15/02 15/04 17/00 17/02 17/04 17/06	naphthenic acids; Compositions Apparatus therefor Compositions containing resin soap or soap derived from naphthenic acids Detergent materials or soaps characterised by their shape or physical properties (shaping soap C11D 13/14) Floating bodies of detergents combined with or containing other objects Powder; Flakes; Free-flowing mixtures; Sheets Liquid soap; capsuled Recovery of glycerol from a saponification liquor
10/06 11/00 11/02 11/04 Soap or s	 based on mixtures of surface-active non-soap compounds and soap [2] based on mixtures of non-surface-active compounds and soap [2] Special methods for preparing compositions containing mixtures of detergents Preparation in the form of powder by spray-drying by chemical means, e.g. sulfonating in the presence of other compounding ingredients followed by neutralising 	15/02 15/04 17/00 17/02 17/04 17/06 17/08	naphthenic acids; Compositions Apparatus therefor Compositions containing resin soap or soap derived from naphthenic acids Detergent materials or soaps characterised by their shape or physical properties (shaping soap C11D 13/14) Floating bodies of detergents combined with or containing other objects Powder; Flakes; Free-flowing mixtures; Sheets Liquid soap; capsuled