CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY

(NOTES omitted)

CHEMISTRY

3/14

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

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)

NOTE

In this subclass, boron and silicon are considered as metals

. . with the use of indifferent gases or vapours, e.g.

1/00	Production of fats or fatty oils from raw materials	3/16	by mechanical means
1/02	• Pretreatment	5/00	Preserving by using additives, e.g. anti-oxidants
1/025 1/04	 • {by enzymes or microorganisms, living or dead} • of vegetable raw material {(C11B 1/025 takes) 		NOTE
1/04	precedence)}		
1/06	by pressing		In groups <u>C11B 5/0007</u> - <u>C11B 5/0092</u> , in
1/08	by pressingby hot pressing		the absence of an indication to the contrary, a composition is classified in the last appropriate
1/10	by not pressingby extracting		place
1/102	• • {in counter-current; utilisation of an equipment		·
	wherein the material is conveyed by a screw}	5/0007	• {Organic substances}
1/104	• • {using super critical gases or vapours}	5/0014	• {Hydrocarbons}
1/106	• • {using ultra-sounds}	5/0021	• {containing oxygen}
1/108	• • {after-treatment, e.g. of miscellae}	5/0028	• • {Carboxylic acids; Their derivates}
1/12	 by melting out 	5/0035	• • {Phenols; Their halogenated and aminated
1/14	with hot water or aqueous solutions		derivates, their salts, their esters with carboxylic
1/16	• • with steam	5/0042	acids} - {containing nitrogen}
3/00	Refining fats or fatty oils	5/0042	• {Amines or imines (C11B 5/0035 takes
3/001	• {by a combination of two or more of the means	3/003	precedence)}
3/001	hereafter}	5/0057	• • {Amides or imides}
3/003	• {by enzymes or microorganisms, living or dead}	5/0064	• • {Heterocyclic compounds containing nitrogen in
3/005	• {by wave energy or electric current, e.g.	2, 2 2 2 3	the ring}
	electrodialysis}	5/0071	• {containing halogens, sulfur or phosphorus
3/006	• {by extraction}		(halogenated phenols C11B 5/0035)}
3/008	• {by filtration, e.g. including ultra filtration, dialysis	5/0078	• {Metal hydrides or organo-metallic compounds, i.e.
	(C11B 3/005 takes precedence)		organic compounds containing a metal-to-carbon
3/02	• by chemical reaction {(C11B 3/003 takes		link}
	precedence)}	5/0085	• {Substances of natural origin of unknown
3/04	with acids	5/000 2	constitution, f.i. plant extracts}
3/06	with bases	5/0092	• {Mixtures}
3/08	• with oxidising agents	7/00	Separation of mixtures of fats or fatty oils
3/10	• by adsorption		into their constituents, e.g. saturated oils from
	NOTE When classifying in this group, classification is also made in group B01D 15/08 insofar as		unsaturated oils
			NOTE
			In groups C11B 7/0008 - C11B 7/0091, in the
	subject matter of general interest relating to		absence of an indication to the contrary an
	chromatography is concerned.		invention is classified in the last appropriate place
3/12	 by distillation 		
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9/025

• • {Recovery by solvent extraction}

7/0008	• {by differences of solubilities, e.g. by extraction, by separation from a solution by means of anti-	9/027	 {Recovery of volatiles by distillation or stripping}
	solvents (addition of a minor amount of solvent intended to lower the melting point C11B 7/0083, C11B 7/0091)}	11/00	Recovery or refining of other fatty substances, e.g. lanolin or waxes
7/0016	• {in hydrocarbons or halogenated hydrocarbons	11/005	• {Lanolin; Woolfat}
7/0025	 (in pressure liquefied gases C11B 7/005)} • {in solvents containing oxygen in their molecule} 	13/00	Recovery of fats, fatty oils or fatty acids from
7/0033	{in solvents containing other heteroatoms in their molecule}	13/005	waste materials• {of residues of the fabrication of wood-cellulose (in
7/0041	• • {in mixtures of individualized solvents (water is	13/02	particular tall-oil)} • from soap stock
7/005	not taken into account)} • {in solvents used at superatmospheric pressures}	13/04	 from spent adsorption materials
7/0058	 {in solvents used at superatinospheric pressures} {in solvents or mixtures of solvents of different natures or compositions used in succession} 	15/00	Solidifying fatty oils, fats, or waxes by physical processes
7/0066	• {between two or more non-miscible solvent phases}		
7/0075	• {by differences of melting or solidifying points}		
7/0083	• {with addition of auxiliary substances, e.g. cristallisation promotors, filter aids, melting point depressors, (if a characterised solution is formed C11B 7/0008)}		
7/0091	 {non-solvents, e.g. water wherein the fat or oil is dispersed account a more washing out of fractions is not taken into} 		
9/00	Essential oils; Perfumes		
9/0003	• {Compounds of unspecified constitution defined by the chemical reaction for their preparation}		
9/0007	• {Aliphatic compounds}		
9/0011	• • {containing S}		
9/0015	• • {containing oxygen as the only heteroatom}		
9/0019	• • { carbocylic acids; Salts or esters thereof}		
9/0023	• • {containing nitrogen as the only heteroatom}		
9/0026	 {compounds containing an alicyclic ring not condensed with another ring} 		
9/003	• • {the ring containing less than six carbon atoms}		
9/0034	• • {the ring containing six carbon atoms}		
9/0038	• • {the ring containing more than six carbon atoms}		
9/0042	 {compounds containing condensed hydrocarbon rings} 		
9/0046	• • {containing only two condensed rings}		
9/0049	• • • {the condensed rings sharing two common C atoms}		
9/0053	• • • {both rings being six-membered}		
9/0057	{Spiro compounds}		
9/0061	• {compounds containing a six-membered aromatic ring not condensed with another ring}		
9/0065	• • {Nitriles}		
9/0069	• {Heterocyclic compounds}		
9/0073	• • {containing only O or S as heteroatoms}		
9/0076	• • • {the hetero rings containing less than six atoms}		
9/008	• • • {the hetero rings containing six atoms}		
9/0084	• • • {the hetero rings containing more than six atoms}		
9/0088	• • {Spiro compounds}		
9/0092	• • {containing only N as heteroatom}		
9/0096	• • {containing at least two different heteroatoms, at least one being nitrogen}		
9/02	 Recovery or refining of essential oils from raw materials 		
9/022	{Refining}		
9/025	{Recovery by solvent extraction}		

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