## CPC COOPERATIVE PATENT CLASSIFICATION

## C CHEMISTRY; METALLURGY

(NOTES omitted)

## **CHEMISTRY**

3/12

3/14

. by distillation

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

- 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

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	• • {by enzymes or microorganisms, living or dead}	5/00	
1/04	• of vegetable raw material {(C11B 1/025 takes		<u>NOTE</u>
4 10 -	precedence)}		In groups <u>C11B 5/0007</u> - <u>C11B 5/0092</u> , in
1/06	• by pressing		the absence of an indication to the contrary, a
1/08	• by hot pressing		composition is classified in the last appropriate
1/10	• by extracting		place
1/102	• • {in counter-current; utilisation of an equipment	5/0007	• {Organic substances}
1/104	wherein the material is conveyed by a screw}	5/0014	• {Hydrocarbons}
1/104	• • {using super critical gases or vapours}	5/0021	• {containing oxygen}
1/106	• • {using ultra-sounds}	5/0028	• {Carboxylic acids; Their derivates}
1/108	• { after-treatment, e.g. of miscellae}	5/0035	• • {Phenols; Their halogenated and aminated
1/12	• by melting out	2,0022	derivates, their salts, their esters with carboxylic
1/14	• • with hot water or aqueous solutions		acids}
1/16	• • with steam	5/0042	• {containing nitrogen}
3/00	Refining fats or fatty oils	5/005	• • {Amines or imines (C11B 5/0035 takes
3/001	• {by a combination of two or more of the means		precedence)}
	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.		the ring}
	electrodialysis}	5/0071	<ul> <li>{containing halogens, sulfur or phosphorus</li> </ul>
3/006	• {by extraction}		(halogenated phenols <u>C11B 5/0035</u> )}
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 {( <u>C11B 3/003</u> takes		link}
	precedence)}	5/0085	• {Substances of natural origin of unknown
3/04	• with acids	<b>=</b> 1000 <b>=</b>	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	<ul> <li>by adsorption</li> </ul>		into their constituents, e.g. saturated oils from
	<u>NOTE</u>		unsaturated oils
	When classifying in this group, classification		<u>NOTE</u>
	is also made in group <u>B01D 15/08</u> insofar as		In groups <u>C11B 7/0008</u> - <u>C11B 7/0091</u> , 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
2/12			

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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	<ul> <li>{Recovery of volatiles by distillation or stripping}</li> </ul>
	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	<ul> <li>(in pressure liquefied gases <u>C11B 7/005</u>)}</li> <li>. {in solvents containing oxygen in their molecule}</li> </ul>	13/00	Recovery of fats, fatty oils or fatty acids from waste materials
7/0033	{in solvents containing other heteroatoms in their molecule}	13/005	• {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 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		
7/0091	C11B 7/0008)} • {non-solvents, e.g. water wherein the fat or oil is		
770071	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	<ul> <li>{compounds containing an alicyclic ring not condensed with another ring}</li> </ul>		
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	<ul> <li>{compounds containing condensed hydrocarbon rings}</li> </ul>		
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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