

CPC**COOPERATIVE PATENT CLASSIFICATION****C11B**

PRODUCING ([pressing](#), [extraction](#)) , **REFINING AND PRESERVING FATS, FATTY SUBSTANCES** ([e.g. lanolin](#)) , **FATTY OILS AND WAXES, INCLUDING EXTRACTION FROM WASTE MATERIALS ; ESSENTIAL OILS ; PERFUMES** ([drying-oils C09F](#))

NOTE

In this subclass, boron and silicon are considered as metals

Guidance heading:**C11B 1/00****Production of fats or fatty oils from raw materials**

- C11B 1/02 . Pretreatment
- C11B 1/025 .. { [by enzymes or microorganisms, living or dead](#) }
- C11B 1/04 .. of vegetable raw material { ([C11B 1/025](#) takes precedence) }
- C11B 1/06 . by pressing
- C11B 1/08 .. by hot pressing
- C11B 1/10 . by extracting
- C11B 1/102 .. { [in counter-current; utilisation of an equipment wherein the material is conveyed by a screw](#) }
- C11B 1/104 .. using super critical gases or vapours
- C11B 1/106 .. { [using ultra-sounds](#) }
- C11B 1/108 .. { [after-treatment, e.g. of miscellae](#) }
- C11B 1/12 . by melting out
- C11B 1/14 .. with hot water or aqueous solutions
- C11B 1/16 .. with steam

C11B 3/00**Refining fats or fatty oils**

- C11B 3/001 . { [by a combination of two or more of the means hereafter](#) }
- C11B 3/003 . { [by enzymes or microorganisms, living or dead](#) }
- C11B 3/005 . { [by wave energy or electric current, e.g. electrodialysis](#) }
- C11B 3/006 . { [by extraction](#) }
- C11B 3/008 . { [by filtration, e.g. including ultra filtration, dialysis](#) ([C11B 3/005](#) takes precedence) }
- C11B 3/02 . by chemical reaction { ([C11B 3/003](#) takes precedence) }

- C11B 3/04 . . with acids
- C11B 3/06 . . with bases
- C11B 3/08 . . with oxidising agents
- C11B 3/10 . by adsorption

NOTE

When classifying in this group, classification is also made in group [B01D 15/08](#) insofar as subject matter of general interest relating to chromatography is concerned.

- C11B 3/12 . by distillation
- C11B 3/14 . . with the use of indifferent gases or vapours, e.g. steam
- C11B 3/16 . by mechanical means

C11B 5/00 Preserving by using additives, e.g. anti-oxidants**NOTE**

In groups [C11B 5/0007](#) to [C11B 5/0092](#) , in the absence of an indication to the contrary, a composition is classified in the last appropriate place

- C11B 5/0007 . { Organic substances }
- C11B 5/0014 . { Hydrocarbons }
- C11B 5/0021 . { containing oxygen }
- C11B 5/0028 . . { Carboxylic acids; Their derivatives }
- C11B 5/0035 . . { Phenols; Their halogenated and aminated derivatives, their salts, their esters with carboxylic acids }
- C11B 5/0042 . { containing nitrogen }
- C11B 5/005 . . { Amines or imines ([C11B 5/0035](#) takes precedence) }
- C11B 5/0057 . . { Amides or imides }
- C11B 5/0064 . . { Heterocyclic compounds containing nitrogen in the ring }
- C11B 5/0071 . { containing halogens, sulfur or phosphorus ([halogenated phenols C11B 5/0035](#)) }
- C11B 5/0078 . { Metal hydrides or organo-metallic compounds, i.e. organic compounds containing a metal-to-carbon link }
- C11B 5/0085 . { Substances of natural origin of unknown constitution, f.i. plant extracts }
- C11B 5/0092 . { Mixtures }

C11B 7/00 Separation of mixtures of fats or fatty oils into their constituents, e.g. saturated oils from unsaturated oils

NOTE

In groups [C11B 7/0008](#) to [C11B 7/0091](#) , in the absence of an indication to the contrary an invention is classified in the last appropriate place

- [C11B 7/0008](#) . { by differences of solubilities, e.g. by extraction, by separation from a solution by means of anti-solvents (addition of a minor amount of solvent intended to lower the melting point [C11B 7/0083](#) , [C11B 7/0091](#)) }
- [C11B 7/0016](#) .. { in hydrocarbons or halogenated hydrocarbons (in pressure liquefied gases [C11B 7/005](#)) }
- [C11B 7/0025](#) .. { in solvents containing oxygen in their molecule }
- [C11B 7/0033](#) .. { in solvents containing other heteroatoms in their molecule }
- [C11B 7/0041](#) .. { in mixtures of individualized solvents (water is not taken into account) }
- [C11B 7/005](#) .. { in solvents used at superatmospheric pressures }
- [C11B 7/0058](#) .. { in solvents or mixtures of solvents of different natures or compositions used in succession }
- [C11B 7/0066](#) .. { between two or more non-miscible solvent phases }
- [C11B 7/0075](#) . { by differences of melting or solidifying points }
- [C11B 7/0083](#) . { with addition of auxiliary substances, e.g. cristallisation promoters, filter aids, melting point depressors, (if a characterised solution is formed [C11B 7/0008](#)) }
- [C11B 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 }
- [C11B 9/00](#)** **Essential oils ; Perfumes (synthesis of chemical substances [C07](#))**
- [C11B 9/0003](#) . { Compounds of unspecified constitution defined by the chemical reaction for their preparation }
- [C11B 9/0007](#) . { Aliphatic compounds }
- [C11B 9/0011](#) .. { containing S }
- [C11B 9/0015](#) .. { containing oxygen as the only heteroatom }
- [C11B 9/0019](#) ... { carbocyclic acids; Salts or esters thereof }
- [C11B 9/0023](#) .. { containing nitrogen as the only heteroatom }
- [C11B 9/0026](#) . { compounds containing an alicyclic ring not condensed with another ring }
- [C11B 9/003](#) .. { the ring containing less than six carbon atoms }
- [C11B 9/0034](#) .. { the ring containing six carbon atoms }
- [C11B 9/0038](#) .. { the ring containing more than six carbon atoms }
- [C11B 9/0042](#) . { compounds containing condensed hydrocarbon rings }
- [C11B 9/0046](#) .. { containing only two condensed rings }
- [C11B 9/0049](#) ... { the condensed rings sharing two common C atoms }

- C11B 9/0053 { both rings being six-membered }
- C11B 9/0057 . . . { Spiro compounds }
- C11B 9/0061 . { compounds containing a six-membered aromatic ring not condensed with another ring }
- C11B 9/0065 . . { Nitriles }
- C11B 9/0069 . { Heterocyclic compounds }
- C11B 9/0073 . . { containing only O or S as heteroatoms }
- C11B 9/0076 . . . { the hetero rings containing less than six atoms }
- C11B 9/008 . . . { the hetero rings containing six atoms }
- C11B 9/0084 . . . { the hetero rings containing more than six atoms }
- C11B 9/0088 . . . { Spiro compounds }
- C11B 9/0092 . . { containing only N as heteroatom }
- C11B 9/0096 . . { containing at least two different heteroatoms, at least one being nitrogen }
- C11B 9/02 . Recovery or refining of essential oils from raw materials
- C11B 9/022 . . { Refining }
- C11B 9/025 . . { Recovery by solvent extraction }
- C11B 9/027 . . { Recovery of volatiles by distillation or stripping }
- C11B 11/00** **Recovery or refining of other fatty substances, e.g. lanolin, waxes ([synthetic waxes C07](#) , [C08](#) ; mineral waxes [C10G](#))**
- C11B 11/005 . { Lanolin; Woolfat }
- C11B 13/00** **Recovery of fats, fatty oils, or fatty acids from waste materials ([mechanical separation from waste water C02F](#) , [E03F](#))**
- C11B 13/005 . { of residues of the fabrication of wood-cellulose ([in particular tall-oil](#)) }
- C11B 13/02 . from soap stock
- C11B 13/04 . from spent adsorption materials
- C11B 15/00** **Solidifying fatty oils, fats, or waxes by physical processes**