

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

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

C11B 3/10
(continued)

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 derivates}
- C11B 5/0035 . . {Phenols; Their halogenated and aminated derivates, 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. crystallisation 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	<ul style="list-style-type: none">. {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	<ul style="list-style-type: none">. {of residues of the fabrication of wood-cellulose (in particular tall-oil)}
C11B 13/02	<ul style="list-style-type: none">. from soap stock
C11B 13/04	<ul style="list-style-type: none">. from spent adsorption materials
C11B 15/00	Solidifying fatty oils, fats, or waxes by physical processes