

**CPC****COOPERATIVE PATENT CLASSIFICATION****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****C11C 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](#))

## C11C 1/002

- {Sources of fatty acids, e.g. natural glycerides, characterised by the nature, the quantities or the distribution of said acids}

## C11C 1/005

- {Splitting up mixtures of fatty acids into their constituents ([processes intended for both fats and fatty acids C11B 7/00](#))}

## C11C 1/007

- {using organic solvents}

## C11C 1/02

- from fats or fatty oils

## C11C 1/025

- . {by saponification and release of fatty acids}

## C11C 1/04

- . by hydrolysis

## C11C 1/045

- . . {using enzymes or microorganisms, living or dead}

## C11C 1/06

- . . using solid catalysts

## C11C 1/08

- Refining

## C11C 1/10

- . by distillation

## C11C 1/103

- . . {after or with the addition of chemicals}

## C11C 1/106

- . . . {inert gases or vapors}

**C11C 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](#); [drying oils C09F](#))

## C11C 3/003

- {by esterification of fatty acids with alcohols ([C11C 3/02 takes precedence](#))}

## C11C 3/006

- {by oxidation}

## C11C 3/02

- by esterification of fatty acids with glycerol

## C11C 3/025

- . {with a stoichiometric excess of glycerol}

## C11C 3/04

- by esterification of fats or fatty oils

## C11C 3/06

- . with glycerol

## C11C 3/08

- . with fatty acids

## C11C 3/10

- . Ester interchange

## C11C 3/12

- by hydrogenation

## C11C 3/123

- . {using catalysts based principally on nickel or derivatives}

## C11C 3/126

- . {using catalysts based principally on other metals or derivatives}

## C11C 3/14

- by isomerisation {(isomerisation induced by hydrogenation [C11C 3/12](#))}

**C11C 5/00****Candles**

## C11C 5/002

- {Ingredients}

## C11C 5/004

- . {dyes, pigments; products giving a coloured flame}

- C11C 5/006
  - {wicks, related accessories}
- C11C 5/008
  - {Candles characterised by their form; Composite candles, e.g. candles containing zones of different composition, inclusions, or the like}
- C11C 5/02
  - Apparatus for preparation thereof
- C11C 5/021
  - • {by compressing solid materials in a mould without heating}
- C11C 5/023
  - • {by casting or melting in a mould}
- C11C 5/025
  - • {by dipping a wick in a melt}
- C11C 5/026
  - • {by a continuous process, e.g. by extrusion by conveying a melt together with the wick through a solidification zone}
- C11C 5/028
  - • {by shaping a preform, e.g. forming the butts, trimming}