

**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}