

## 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}