

**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 }