

# CPC COOPERATIVE PATENT CLASSIFICATION

## C CHEMISTRY; METALLURGY

(NOTES omitted)

### CHEMISTRY

#### C11 ANIMAL OR VEGETABLE OILS, FATS, FATTY SUBSTANCES OR WAXES; FATTY ACIDS THEREFROM; DETERGENTS; CANDLES

#### 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

##### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

- |             |  |       |   |
|-------------|--|-------|---|
| 1/00        | <b>Preparation of fatty acids from fats, fatty oils, or waxes; Refining the fatty acids</b> (recovery of fatty acids from waste materials <a href="#">C11B 13/00</a> )   | 5/00  | <b>Candles</b>  |
| 1/002       | . {Sources of fatty acids, e.g. natural glycerides, characterised by the nature, the quantities or the distribution of said acids}   | 5/002 | . {Ingredients}   |
| 1/005       | . {Splitting up mixtures of fatty acids into their constituents (processes intended for both fats and fatty acids <a href="#">C11B 7/00</a> )}   | 5/004 | . . {dyes, pigments; products giving a coloured flame}  |
| 1/007       | . {using organic solvents}   | 5/006 | . {wicks, related accessories}  |
| 1/02        | . from fats or fatty oils  | 5/008 | . {Candles characterised by their form; Composite candles, e.g. candles containing zones of different composition, inclusions, or the like} |
| 1/025       | . . {by saponification and release of fatty acids}   | 5/02  | . Apparatus for preparation thereof   |
| 1/04        | . . by hydrolysis  | 5/021 | . . {by compressing solid materials in a mould without heating}   |
| 1/045       | . . . {using enzymes or microorganisms, living or dead}  | 5/023 | . . {by casting or melting in a mould}  |
| 1/06        | . . . using solid catalysts  | 5/025 | . . {by dipping a wick in a melt}   |
| 1/08        | . Refining   | 5/026 | . . {by a continuous process, e.g. by extrusion by conveying a melt together with the wick through a solidification zone}                   |
| 1/10        | . . by distillation  | 5/028 | . . {by shaping a preform, e.g. forming the butts, trimming}  |
| 1/103       | . . . {after or with the addition of chemicals}  |       |   |
| 1/106       | . . . . {inert gases or vapors}  |       |   |
| <b>3/00</b> | <b>Fats, oils, or fatty acids by chemical modification of fats, oils, or fatty acids obtained therefrom</b> (sulfonated fats or oils <a href="#">C07C 309/62</a> ; factice <a href="#">C08H</a> ; drying oils <a href="#">C09F</a> ) |       |   |
| 3/003       | . {by esterification of fatty acids with alcohols ( <a href="#">C11C 3/02</a> takes precedence)}   |       |   |
| 3/006       | . {by oxidation}   |       |   |
| 3/02        | . by esterification of fatty acids with glycerol   |       |   |
| 3/025       | . . {with a stoichiometric excess of glycerol}   |       |   |
| 3/04        | . by esterification of fats or fatty oils  |       |   |
| 3/06        | . . with glycerol  |       |   |
| 3/08        | . . with fatty acids   |       |   |
| 3/10        | . . Ester interchange  |       |   |
| 3/12        | . by hydrogenation   |       |   |
| 3/123       | . . {using catalysts based principally on nickel or derivatives}   |       |   |
| 3/126       | . . {using catalysts based principally on other metals or derivatives}   |       |   |
| 3/14        | . by isomerisation {(isomerisation induced by hydrogenation <a href="#">C11C 3/12</a> )}   |       |   |