### CPC COOPERATIVE PATENT CLASSIFICATION

### C CHEMISTRY; METALLURGY

(NOTES omitted)

### **CHEMISTRY**

3/126

3/14

## 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	Preparation of fatty acids from fats, fatty oils, or	5/00	Candles
	waxes; Refining the fatty acids (recovery of fatty	5/002	• {Ingredients}
	acids from waste materials C11B 13/00)	5/004	• • {dyes, pigments; products giving a coloured
1/002	• {Sources of fatty acids, e.g. natural glycerides,		flame}
	characterised by the nature, the quantities or the	5/006	• {wicks, related accessories}
	distribution of said acids}	5/008	• {Candles characterised by their form; Composite
1/005	• {Splitting up mixtures of fatty acids into their constituents (processes intended for both fats and		candles, e.g. candles containing zones of different composition, inclusions, or the like}
	fatty acids <u>C11B 7/00</u> )}	5/02	Apparatus for preparation thereof
1/007	<ul><li>{using organic solvents}</li></ul>	5/021	• • {by compressing solid materials in a mould
1/02	<ul> <li>from fats or fatty oils</li> </ul>		without heating}
1/025	• • {by saponification and release of fatty acids}	5/023	• • {by casting or melting in a mould}
1/04	• • by hydrolysis	5/025	• • {by dipping a wick in a melt}
1/045	<ul> <li>• { using enzymes or microorganisms, living or dead}</li> </ul>	5/026	• • {by a continuous process, e.g. by extrusion by conveying a melt together with the wick through
1/06	• • using solid catalysts		a solidification zone}
1/08	. Refining	5/028	• • {by shaping a preform, e.g. forming the butts,
1/10	• by distillation		trimming}
1/103	• • { after or with the addition of chemicals }		
1/106	• • • • {inert gases or vapors}		
3/00	Fats, oils, or fatty acids by chemical modification of fats, oils, or fatty acids obtained therefrom (sulfonated fats or oils CO7C 309/62; factice C08H; drying oils C09F)		
3/003	• {by esterification of fatty acids with alcohols (C11C 3/02 takes precedence)}		
3/006	• {by oxidation}		
3/02	<ul> <li>by esterification of fatty acids with glycerol</li> </ul>		
3/025	• • {with a stoechiometric excess of glycerol}		
3/04	<ul> <li>by esterification of fats or fatty oils</li> </ul>		
3/06	• • with glycerol		
3/08	• • with fatty acids		
3/10	Ester interchange		
3/12	<ul> <li>by hydrogenation</li> </ul>		
3/123	<ul> <li>{using catalysts based principally on nickel or derivates}</li> </ul>		

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. . {using catalysts based principally on other metals

. by isomerisation  $\{(isomerisation\ induced\ by$ 

or derivates}

hydrogenation C11C 3/12)}