Title (en)

SELECTIVE HYDROGENATION OF FUNCTIONAL GROUPS IN SUBSTRATES AND PARTIALLY HYDROGENATED FATTY ACIDS AND FATTY ACID DERIVATIVES

Title (de)

SELEKTIVE HYDRIERUNG FUNKTIONELLER GRUPPEN IN SUBSTRATEN UND TEILWEISE HYDRIERTE FETTSÄUREN UND FETTSÄUREDERIVATE

Title (fr)

HYDROGENATION SELECTIVE DE GROUPES FONCTIONNELS DANS DES SUBSTRATS ET ACIDES GRAS PARTIELLEMENT HYDROGENES ET DERIVES D'ACIDES GRAS

Publication

**EP 1737806 A1 20070103 (EN)**

Application

**EP 05722305 A 20050331**

Priority

- SE 2005000481 W 20050331
- SE 0400868 A 20040331
- US 55770704 P 20040331

Abstract (en)

[origin: WO2005095306A1] Process for the hydrogenation of functional groups in hydrogenatable substrates, wherein hydrogen gas is mixed with the substrate and a solvent, the mixture is brought into contact with a catalyst. The hydrogenation is carried out under process conditions which are adapted to the activity of the catalyst used, wherein the temperature is sufficiently low, the substrate concentration is sufficiently high and the diffusivity is sufficiently high to provide a selective hydrogenation of the functional group having a higher reactivity than one which has a lower reactivity. The functional groups can for example comprise different C=C-groups in substrates in the form of lipids, primarily fatty acids and fatty acid derivatives, such as triglycerides and methyl fatty acids. Partially-hydrogenated fatty acids/fatty acid derivatives can hereby be obtained, which possess a low content of trans-fatty acid content as well as high selectivity in the form of SLf number and Sao-number.

IPC 8 full level

**C07B 35/00** (2006.01); **C07C 51/36** (2006.01); **C11C 3/12** (2006.01)

CPC (source: EP)

**C07C 51/36** (2013.01); **C11C 3/12** (2013.01)

C-Set (source: EP)

**C07C 51/36** + **C07C 57/12**

Citation (search report)

See references of WO 2005095306A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2005095306 A1 20051013**; EP 1737806 A1 20070103

DOCDB simple family (application)

**SE 2005000481 W 20050331**; EP 05722305 A 20050331