Title (en)

DIENE-SELECTIVE HYDROGENATION OF METATHESIS-DERIVED OLEFINS AND UNSATURATED ESTERS

Title (de)

DIEN-SELEKTIVE HYDRIERUNG VON AUS METATHESEN GEWONNENEN OLEFINEN UND UNGESÄTTIGTEN ESTERN

Title (fr)

HYDROGÉNATION SÉLECTIVE D'OLÉFINES DE MÉTATHÈSE ET D'ESTERS INSATURÉS

Publication

EP 2970819 B1 20181128 (EN)

Application

EP 14724815 A 20140311

Priority

- US 201313827153 A 20130314
- US 2014023048 W 20140311

Abstract (en)

[origin: WO2014159329A2] Methods are provided for refining natural oil feedstocks and partially hydrogenating polyunsaturated olefins and polyunsaturated esters. The methods comprise reacting the feedstock in the presence of a metathesis catalyst under conditions sufficient to form a metathesized product comprising olefins and esters. In certain embodiments, the methods further comprise separating the polyunsaturated olefins from the polyunsaturated esters in the metathesized product. In certain embodiments, the methods further comprise partially hydrogenating the polyunsaturated olefins in the presence of a hydrogenation catalyst, wherein at least a portion of the polyunsaturated olefins are converted to monounsaturated olefins. In other embodiments, the methods further comprise partially hydrogenating the polyunsaturated esters in the presence of a hydrogenation catalyst, wherein at least a portion of the polyunsaturated esters are converted to monounsaturated esters.

IPC 8 full level

C11B 3/02 (2006.01); **C11B 11/00** (2006.01); **C11C 1/00** (2006.01); **C11C 3/12** (2006.01); **C11C 3/14** (2006.01)

CPC (source: EP)

C11B 3/02 (2013.01); **C11B 11/00** (2013.01); **C11C 1/002** (2013.01); **C11C 3/12** (2013.01); **C11C 3/123** (2013.01); **C11C 3/14** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2014159329 A2 20141002; **WO 2014159329 A3 20150507**; CN 105189722 A 20151223; EP 2970819 A2 20160120; EP 2970819 B1 20181128

DOCDB simple family (application)

US 2014023048 W 20140311; CN 201480015348 A 20140311; EP 14724815 A 20140311