

Title (en)

THE USE OF ISOSTEARIC ACID ESTERS AS LUBRICANTS

Title (de)

VERWENDUNG VON ISOSTEARINSÄUREESTERN ALS SCHMIERMITTEL

Title (fr)

UTILISATION D'ESTERS D'ACIDE ISOSTÉARIQUE COMME LUBRIFIANTS

Publication

EP 3178907 A1 20170614 (EN)

Application

EP 15198700 A 20151209

Priority

EP 15198700 A 20151209

Abstract (en)

The presently claimed invention is directed to the preparation of esters obtainable from reacting a mixture of acids comprising at least 70 weight-% of mono-branched or poly-branched, saturated C 16 -C 22 fatty acids with Guerbet alcohols, lubricant compositions thereof and the use of these esters obtained from Guerbet alcohols for improving seal compatibility of lubricants.

IPC 8 full level

C10M 105/34 (2006.01); **C10M 129/70** (2006.01)

CPC (source: EP)

C10M 105/34 (2013.01); **C10M 129/70** (2013.01); **C10M 2207/281** (2013.01); **C10M 2207/2815** (2013.01); **C10N 2020/02** (2013.01); **C10N 2020/065** (2020.05); **C10N 2020/071** (2020.05); **C10N 2030/00** (2013.01); **C10N 2030/08** (2013.01); **C10N 2030/10** (2013.01); **C10N 2030/36** (2020.05); **C10N 2030/40** (2020.05); **C10N 2030/64** (2020.05); **C10N 2040/04** (2013.01); **C10N 2040/042** (2020.05); **C10N 2040/044** (2020.05); **C10N 2040/08** (2013.01); **C10N 2040/20** (2013.01); **C10N 2040/25** (2013.01); **C10N 2050/10** (2013.01)

Citation (applicant)

- US 6497812 B1 20021224 - SCHINSKI WILLIAM L [US]
- EP 0565487 A2 19931013 - CIBA GEIGY AG [CH]
- "Ullmann's Encyclopedia of Industrial Chemistry", 2008, WILEY-VCH, article "Electronic Release"
- A. SCHILLING: "Motor Oils and Engine Lubrication", 1968, SCIENTIFIC PUBLICATIONS

Citation (search report)

- [X] EP 1889640 A1 20080220 - COGNIS IP MAN GMBH [DE]
- [I] DE 102006001768 A1 20070719 - COGNIS IP MAN GMBH [DE]
- [X] US 6346504 B1 20020212 - APPELMAN ERIC [NL], et al
- [X] KNOTHE GERHARD ET AL: "SYNTHESIS, MASS SPECTROMETRY, AND NUCLEAR MAGNETIC RESONANCE CHARACTERIZATION OF DI-GUERBET ESTERS", JOURNAL OF THE AMERICAN OIL CHEMISTS' SOCIETY (JAOCS), SPRINGER, DE, vol. 75, no. 2, 1 January 1998 (1998-01-01), pages 1861 - 1866, XP001248929, ISSN: 0003-021X, DOI: 10.1007/S11746-998-0342-Y
- [X] "Production of branched-chain fatty acids from sterculia oil - Springer", 1 July 1982 (1982-07-01), XP055258206, Retrieved from the Internet <URL: <http://rd.springer.com/article/10.1007/BF02662231>> [retrieved on 20160315] & KAI Y ET AL: "Production of branched-chain fatty acids from sterculia oil", JOURNAL OF THE AMERICAN OIL CHEMISTS' SOCIETY (JAOCS), SPRINGER, DE, vol. 59, no. 7, 1 July 1982 (1982-07-01), pages 300 - 305, XP008179404, ISSN: 0003-021X, DOI: 10.1007/BF02662231

Cited by

CN111019744A; WO2019040580A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3178907 A1 20170614; WO 2017097645 A1 20170615

DOCDB simple family (application)

EP 15198700 A 20151209; EP 2016079195 W 20161130