Title (en)

BIODEGRADABLE LUBRICATING OIL COMPOSITION HAVING FLAME RETARDANCY

Title (de)

BIOLOGISCH ABBAUBARE UND FEUERFESTE SCHMIERMITTELZUSAMMENSETZUNG

Title (fr)

COMPOSITION D'HUILE LUBRIFIANTE BIODÉGRADABLE AYANT UN CARACTÈRE IGNIFUGE

Publication

EP 2554646 B1 20190612 (EN)

Application

EP 11765579 A 20110329

Priority

- JP 2010084472 A 20100331
- JP 2011057904 W 20110329

Abstract (en)

[origin: EP2554646A1] The present invention provides a lubricating oil composition exhibiting more excellent flame retardancy and biodegradability. The biodegradable lubricating oil composition of the invention has flame retardancy and contains (1) a base oil containing a plant-derived oil in an amount of 60 mass% or more, and a polyol ester in an amount of 40 mass% or less, and (2) a polymethacrylate having a mass average molecular weight of 20,000 to 300,000 in an amount of 0.1 to 5 mass%.

IPC 8 full level

C10M 101/04 (2006.01); **C10M 105/40** (2006.01); **C10M 145/14** (2006.01); **C10M 169/04** (2006.01); C10N 20/00 (2006.01); C10N 20/02 (2006.01); C10N 20/04 (2006.01); C10N 30/00 (2006.01); C10N 40/02 (2006.01); C10N 40/08 (2006.01)

CPC (source: EP US)

C10M 169/041 (2013.01 - EP US); **C10M 169/044** (2013.01 - EP US); C10M 2207/283 (2013.01 - EP US); C10M 2207/2835 (2013.01 - EP US); C10M 2207/289 (2013.01 - EP US); C10M 2207/2895 (2013.01 - EP US); C10M 2207/401 (2013.01 - EP US); C10M 2209/084 (2013.01 - EP US); C10N 2020/04 (2013.01 - EP US); C10N 2030/02 (2013.01 - EP US); C10N 2030/06 (2013.01 - EP US); C10N 2030/08 (2013.01 - EP US); C10N 2030/12 (2013.01 - EP US); C10N 2030/64 (2020.05 - EP US); C10N 2040/08 (2013.01 - EP US)

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)

EP 2554646 A1 20130206; **EP 2554646 A4 20131106**; **EP 2554646 B1 20190612**; CN 102812114 A 20121205; JP 2011213920 A 20111027; JP 5764298 B2 20150819; TW 201142011 A 20111201; TW I510611 B 20151201; US 2013017984 A1 20130117; WO 2011125679 A1 20111013

DOCDB simple family (application)

EP 11765579 A 20110329; CN 201180014521 A 20110329; JP 2010084472 A 20100331; JP 2011057904 W 20110329; TW 100111031 A 20110330; US 201113637659 A 20110329