

Title (en)

Method of lubricating a two-stroke marine engine

Title (de)

Verfahren zum Schmieren von einem Zweitaktschiffsmotor

Title (fr)

Méthode pour lubrifier un moteur deux-temps marin

Publication

**EP 1778824 B1 20150902 (EN)**

Application

**EP 05775264 A 20050722**

Priority

- US 2005026309 W 20050722
- US 59235604 P 20040729
- US 66065005 P 20050311

Abstract (en)

[origin: WO2006014866A1] A method of lubricating an internal combustion engine with a power output of at least 1600 kilowatts, with a lubricating composition, the method comprising: (1) monitoring one or more performance characteristics of the engine; (2) selecting an additive package to provide a desired TBN level to a lubricating composition to modify the performance characteristics of the engine; (3) combining the additive package of step (2) with (a) a component having a viscosity of about 2 mm<sup>2</sup>/s to 12 mm<sup>2</sup>/s, comprising a light neutral base oil, and optionally (b) a component having a viscosity of above 12 mm<sup>2</sup>/s to about 40 mm<sup>2</sup>/s, comprising heavy neutral base oil or a brightstock, to form a lubricating composition; and (4) supplying the lubricating composition of step (3) to the engine.

IPC 8 full level

**C10M 171/02** (2006.01); **C10M 163/00** (2006.01); **C10M 167/00** (2006.01); **C10M 169/04** (2006.01)

CPC (source: EP US)

**C10M 163/00** (2013.01 - EP US); **C10M 167/00** (2013.01 - EP US); **C10M 169/045** (2013.01 - EP US); **C10M 169/048** (2013.01 - EP US); **C10M 171/02** (2013.01 - EP US); **C10M 2205/026** (2013.01 - EP US); **C10M 2207/028** (2013.01 - EP US); **C10M 2209/084** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2219/044** (2013.01 - EP US); **C10M 2219/046** (2013.01 - EP US); **C10M 2223/045** (2013.01 - EP US); **C10N 2010/04** (2013.01 - EP US); **C10N 2020/02** (2013.01 - EP US); **C10N 2020/04** (2013.01 - EP US); **C10N 2030/02** (2013.01 - EP US); **C10N 2030/04** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2030/52** (2020.05 - EP US); **C10N 2040/252** (2020.05 - EP US); **C10N 2060/14** (2013.01 - EP US)

Cited by

WO2011022245A1; EP2308953A1; US8383562B2

Designated contracting state (EPC)

FR GB

DOCDB simple family (publication)

**WO 2006014866 A1 20060209**; CA 2574950 A1 20060209; EP 1778824 A1 20070502; EP 1778824 B1 20150902; EP 2292724 A1 20110309; EP 2292724 B1 20140903; JP 2008508398 A 20080321; JP 2012193383 A 20121011; JP 2012193384 A 20121011; JP 5158939 B2 20130306; JP 5406339 B2 20140205; US 2008121206 A1 20080529; US 2013019832 A1 20130124

DOCDB simple family (application)

**US 2005026309 W 20050722**; CA 2574950 A 20050722; EP 05775264 A 20050722; EP 10179036 A 20050722; JP 2007523690 A 20050722; JP 2012156755 A 20120712; JP 2012156756 A 20120712; US 201213622455 A 20120919; US 57286708 A 20080109