

Title (en)
MARINE ENGINE LUBRICATION

Title (de)
SCHMIERUNG FÜR EINEN SCHIFFSMOTOR

Title (fr)
LUBRIFICATION DE MOTEUR MARIN

Publication
EP 2607461 B1 20180117 (EN)

Application
EP 12196825 A 20121212

Priority
• EP 11195002 A 20111221
• EP 12196825 A 20121212

Abstract (en)
[origin: EP2607461A1] A two-stroke or four-stroke marine engine lubricating oil composition comprising an oil of lubricating viscosity in a major amount and (A) additives, in respective minor amounts; and (B) a viscosity modifier in the form of a polymer comprising a core and a plurality of polymeric arms extending therefrom. Preferably, brightstock is completely or substantially absent from the composition.

IPC 8 full level
C10M 143/00 (2006.01); **C10M 159/00** (2006.01); **C10M 159/12** (2006.01); **C10M 169/04** (2006.01); **C10N 20/02** (2006.01); **C10N 20/04** (2006.01); **C10N 30/06** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP KR US)
C10M 143/12 (2013.01 - EP US); **C10M 169/00** (2013.01 - KR); **C10M 171/00** (2013.01 - KR); **F01M 9/02** (2013.01 - KR); **C10M 2203/108** (2013.01 - EP US); **C10M 2205/028** (2013.01 - EP US); **C10M 2205/04** (2013.01 - EP US); **C10M 2205/06** (2013.01 - EP US); **C10N 2020/02** (2013.01 - EP US); **C10N 2020/04** (2013.01 - EP US); **C10N 2020/073** (2020.05 - EP US); **C10N 2020/075** (2020.05 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2030/52** (2020.05 - EP US); **C10N 2040/252** (2020.05 - EP US)

Cited by
CN109868176A

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 2607461 A1 20130626; **EP 2607461 B1 20180117**; AU 2012268822 A1 20130711; AU 2012268822 B2 20140220; CA 2799597 A1 20130621; CA 2799597 C 20200107; CN 103173264 A 20130626; ES 2657913 T3 20180307; JP 2013129833 A 20130704; JP 2018087353 A 20180607; JP 6649655 B2 20200219; KR 102052208 B1 20191204; KR 20130072149 A 20130701; SG 191543 A1 20130731; US 2014005088 A1 20140102

DOCDB simple family (application)
EP 12196825 A 20121212; AU 2012268822 A 20121221; CA 2799597 A 20121221; CN 201210560609 A 20121221; ES 12196825 T 20121212; JP 2012280157 A 20121221; JP 2018035120 A 20180228; KR 20120148133 A 20121218; SG 2012094470 A 20121220; US 201213721117 A 20121220