

Title (en)
MARINE ENGINE LUBRICATION

Title (de)
SCHMIERUNG FÜR EINEN SCHIFFSMOTOR

Title (fr)
LUBRIFICATION DE MOTEUR MARIN

Publication
EP 2781587 A1 20140924 (EN)

Application
EP 14157359 A 20140228

Priority
• EP 13160467 A 20130321
• EP 14157359 A 20140228

Abstract (en)
Marine engine (two-or four-stroke) lubrication is effected by a composition comprising a major amount of an oil of lubricating viscosity blended with minor amounts of one or more additives and a star polymer or olefin co-polymer viscosity modifier dispersed in a heavy basestock diluent oil.

IPC 8 full level
C10M 169/04 (2006.01)

CPC (source: EP US)
C10M 143/00 (2013.01 - EP US); **C10M 165/00** (2013.01 - EP US); **C10M 169/04** (2013.01 - EP US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2203/1025** (2013.01 - EP US); **C10M 2203/1085** (2013.01 - EP US); **C10M 2205/024** (2013.01 - EP US); **C10M 2205/026** (2013.01 - EP US); **C10M 2205/028** (2013.01 - EP US); **C10M 2205/06** (2013.01 - EP US); **C10M 2207/262** (2013.01 - EP US); **C10N 2020/073** (2020.05 - EP US); **C10N 2030/04** (2013.01 - EP US); **C10N 2030/08** (2013.01 - EP US); **C10N 2030/52** (2020.05 - EP US); **C10N 2030/74** (2020.05 - EP US); **C10N 2040/252** (2020.05 - EP US)

Citation (applicant)
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Citation (search report)
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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 2781587 A1 20140924; EP 2781587 B1 20190213; AU 2014201727 A1 20141009; AU 2014201727 B2 20160303; CA 2847140 A1 20140921; CA 2847140 C 20210216; CN 104059730 A 20140924; ES 2719785 T3 20190716; JP 2014185346 A 20141002; JP 2019049014 A 20190328; JP 6510759 B2 20190508; JP 6907249 B2 20210721; KR 20140116011 A 20141001; SG 10201400813S A 20141030; US 2014287970 A1 20140925

DOCDB simple family (application)
EP 14157359 A 20140228; AU 2014201727 A 20140321; CA 2847140 A 20140321; CN 201410098009 A 20140317; ES 14157359 T 20140228; JP 2014058694 A 20140320; JP 2019000278 A 20190104; KR 20140032545 A 20140320; SG 10201400813S A 20140320; US 201414221359 A 20140321