

Title (en)
HIGH ELASTOHYDRODYNAMIC SHEAR STRENGTH FLUID COMPOSITIONS

Title (de)
FLÜSSIGKEITZUSAMMENSETZUNGEN MIT HOHER ELASTOHYDRODYNAMISCHER SCHERFESTIGKEIT

Title (fr)
COMPOSITIONS FLUIDES À GRANDE RÉSISTANCE AU CISAILLEMENT ÉLASTOHYDRODYNAMIQUE

Publication
EP 3055378 A4 20170607 (EN)

Application
EP 13895323 A 20131011

Priority
US 2013064487 W 20131011

Abstract (en)
[origin: WO2015053781A1] A lubrication fluid including cyclic hydrocarbons in combination with dimethylsilicone fluids and/or di-alkyl or di-cycloalkyl or alkyl-cycloalkyl, or mixtures thereof, and di-end- capped polypropylene oxides or highly branched esters to produce very high traction elastohydrodynamic (EHD) traction fluids and to modify the low temperature viscometric properties of the mixed fluids without adversely affecting the very high elastohydrodynamic shear strength or traction coefficients of the very high shear strength cyclic hydrocarbon fluid in the resulting mixed fluids with improved low temperature viscosity.

IPC 8 full level
C10M 169/04 (2006.01); **C09K 5/00** (2006.01); **C10M 111/04** (2006.01); **C10M 171/00** (2006.01)

CPC (source: EP KR)
C10M 111/04 (2013.01 - EP KR); **C10M 169/041** (2013.01 - EP KR); **C10M 171/002** (2013.01 - EP KR); **C10M 2203/045** (2013.01 - EP KR); **C10M 2207/283** (2013.01 - EP KR); **C10M 2207/2835** (2013.01 - EP KR); **C10M 2209/105** (2013.01 - EP KR); **C10M 2209/1055** (2013.01 - EP KR); **C10M 2229/04** (2013.01 - EP KR); **C10M 2229/041** (2013.01 - EP); **C10M 2229/0415** (2013.01 - EP); **C10N 2020/02** (2013.01 - EP KR); **C10N 2030/02** (2013.01 - EP); **C10N 2030/58** (2020.05 - EP KR)

C-Set (source: EP)
1. **C10M 2209/105 + C10M 2209/108**
2. **C10M 2209/1055 + C10M 2209/1085**

Citation (search report)
• [XD] WO 2007044117 A2 20070419 - ASHLAND LICENSING & INTELLECTU [US], et al
• [X] JP 2001342477 A 20011214 - JAPAN ENERGY CORP
• [X] JP 2001019988 A 20010123 - JAPAN ENERGY CORP
• [XY] JP H05255681 A 19931005
• [IY] DE 3841609 A1 19890615 - NIPPON OIL CO LTD [JP]
• See references of WO 2015053781A1

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)
WO 2015053781 A1 20150416; CA 2925884 A1 20150416; CN 105814164 A 20160727; EP 3055378 A1 20160817; EP 3055378 A4 20170607; HK 1224321 A1 20170818; JP 2016536388 A 20161124; KR 20160072141 A 20160622

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US 2013064487 W 20131011; CA 2925884 A 20131011; CN 201380080093 A 20131011; EP 13895323 A 20131011; HK 16112485 A 20161031; JP 2016521723 A 20131011; KR 20167011948 A 20131011