

Title (en)  
GEAR OIL COMPOSITIONS, METHODS OF MAKING AND USING THEREOF

Title (de)  
SCHMIERÖLZUSAMMENSETZUNGEN SOWIE VERFAHREN ZU IHRER HERSTELLUNG UND VERWENDUNG

Title (fr)  
COMPOSITIONS D'HUILE POUR ENGRENAGES, LEURS PROCÉDÉS DE FABRICATION ET LEUR UTILISATION

Publication  
**EP 2285942 A4 20120919 (EN)**

Application  
**EP 09758998 A 20090521**

Priority  
• US 2009044772 W 20090521  
• US 12880108 A 20080529

Abstract (en)  
[origin: US2009298732A1] A gear oil composition is provided. The composition comprises a sufficient amount of an isomerized base oil in a base oil matrix comprising at least at least a polyalphaolefin for the gear oil composition to have for the gear oil composition to have an average volume change in a rubber seal between -10 and +10, a change in shore A hardness between -7 and +10 when tested with SRE NBR28 at 100° C., 168 hours per DIN53521 and DIN53505, a viscosity increase of less than 3% per US Steel S-200 oxidation stability test, a precipitation of less than 1% per US Steel S-200 oxidation stability test, and a Timken OK Load of greater than 60 lb. The isomerized base oil has consecutive numbers of carbon atoms and less than 10 wt % naphthenic carbon by n-d-M. In one embodiment, the sufficient amount of isomerized base oil ranges from 20 to 75 wt. % based on the total weight of the gear oil composition.

IPC 8 full level  
**C10M 107/02** (2006.01); **C10M 105/04** (2006.01); **C10M 169/04** (2006.01); **C10N 20/02** (2006.01); **C10N 30/04** (2006.01); **C10N 30/06** (2006.01); **C10N 30/10** (2006.01); **C10N 30/12** (2006.01); **C10N 40/04** (2006.01)

CPC (source: EP US)  
**C10M 107/02** (2013.01 - EP US); **C10M 169/04** (2013.01 - EP US); **C10M 2203/1025** (2013.01 - EP US); **C10M 2205/0285** (2013.01 - EP US); **C10M 2207/282** (2013.01 - EP US); **C10N 2020/02** (2013.01 - EP US); **C10N 2020/065** (2020.05 - EP US); **C10N 2020/067** (2020.05 - EP US); **C10N 2020/071** (2020.05 - EP US); **C10N 2030/02** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2030/10** (2013.01 - EP US); **C10N 2030/12** (2013.01 - EP US); **C10N 2030/36** (2020.05 - EP US); **C10N 2030/74** (2020.05 - EP US); **C10N 2040/04** (2013.01 - EP US)

Citation (search report)  
• [XII] US 2008029430 A1 20080207 - LOH WILLIAM [US], et al  
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• [I] US 2007238628 A1 20071011 - HAIRE MICHAEL J [US], et al  
• [II] WO 2007067401 A2 20070614 - CHEVRON USA INC [US], et al  
• See references of WO 2009148837A2

Designated contracting state (EPC)  
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 SE SI SK TR

DOCDB simple family (publication)  
**US 2009298732 A1 20091203**; BR PI0912510 A2 20151013; CA 2723292 A1 20091210; CN 102046763 A 20110504; EP 2285942 A2 20110223; EP 2285942 A4 20120919; JP 2011522089 A 20110728; MX 2010012391 A 20101202; WO 2009148837 A2 20091210; WO 2009148837 A3 20100304

DOCDB simple family (application)  
**US 12880108 A 20080529**; BR PI0912510 A 20090521; CA 2723292 A 20090521; CN 200980119814 A 20090521; EP 09758998 A 20090521; JP 2011511724 A 20090521; MX 2010012391 A 20090521; US 2009044772 W 20090521