

Title (en)
HYDRAULIC FLUIDS WITH IMPROVED ANTI-CORROSION PROPERTIES

Title (de)
HYDRAULISCHE FLÜSSIGKEITEN MIT VERBESSERTEM KORROSIONSSCHUTZ

Title (fr)
LIQUIDES HYDRAULIQUES A PROPRIETES ANTICORROSION AMELIOREES

Publication
EP 1379615 A1 20040114 (DE)

Application
EP 02759789 A 20020403

Priority
• DE 10117647 A 20010409
• EP 0203671 W 20020403

Abstract (en)
[origin: WO02081604A1] The invention relates to hydraulic fluids, in particular brake fluids for motor vehicles, with improved anti-corrosion properties, containing (a) between 0.005 and 0.125 wt. % 1H-1,2,4-triazole and (b) between 0 and 10 wt. % of one or more corrosion inhibitors, whereby with the co-use of 1H-1,2,3-benzotriazole and/or 1H-1,2,3-tolyltriazole and/or their derivatives, the weight ratio of 1H-1,2,4-triazole to the aforementioned 1H-1,2,3-triazoles must be greater than 4:1.

IPC 1-7
C10M 133/44; **C10M 169/04**

IPC 8 full level
C10M 141/06 (2006.01); **C10M 133/38** (2006.01); **C10M 133/44** (2006.01); **C10M 139/00** (2006.01); **C10M 145/36** (2006.01); **C10M 169/04** (2006.01); **C10N 30/12** (2006.01); **C10N 40/08** (2006.01)

CPC (source: EP KR US)
C10M 105/78 (2013.01 - EP US); **C10M 107/34** (2013.01 - EP US); **C10M 133/44** (2013.01 - EP KR US); **C10M 137/02** (2013.01 - EP US); **C10M 137/12** (2013.01 - EP US); **C10M 169/04** (2013.01 - EP US); **C10M 2207/04** (2013.01 - EP US); **C10M 2209/1033** (2013.01 - EP US); **C10M 2209/104** (2013.01 - EP US); **C10M 2209/1045** (2013.01 - EP US); **C10M 2209/105** (2013.01 - EP US); **C10M 2209/1055** (2013.01 - EP US); **C10M 2209/1065** (2013.01 - EP US); **C10M 2209/1075** (2013.01 - EP US); **C10M 2209/1085** (2013.01 - EP US); **C10M 2209/1095** (2013.01 - EP US); **C10M 2215/04** (2013.01 - EP US); **C10M 2215/042** (2013.01 - EP US); **C10M 2215/044** (2013.01 - EP US); **C10M 2215/22** (2013.01 - EP US); **C10M 2215/221** (2013.01 - EP US); **C10M 2215/223** (2013.01 - EP US); **C10M 2215/225** (2013.01 - EP US); **C10M 2215/226** (2013.01 - EP US); **C10M 2215/26** (2013.01 - EP US); **C10M 2215/30** (2013.01 - EP US); **C10M 2219/108** (2013.01 - EP US); **C10M 2223/02** (2013.01 - EP US); **C10M 2223/04** (2013.01 - EP US); **C10M 2223/042** (2013.01 - EP US); **C10M 2223/049** (2013.01 - EP US); **C10M 2223/06** (2013.01 - EP US); **C10M 2223/061** (2013.01 - EP US); **C10M 2223/065** (2013.01 - EP US); **C10M 2223/10** (2013.01 - EP US); **C10M 2227/061** (2013.01 - EP US); **C10M 2227/0615** (2013.01 - EP US); **C10M 2227/062** (2013.01 - EP US); **C10M 2227/0625** (2013.01 - EP US); **C10N 2040/08** (2013.01 - EP US)

C-Set (source: EP US)
C10M 2215/223 + **C10M 2215/223**

Citation (search report)
See references of WO 02081604A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 02081604 A1 20021017; AR 033453 A1 20031217; AT E286112 T1 20050115; AU 2002308121 B2 20070809; BR 0208415 A 20040330; CA 2442697 A1 20021017; CA 2442697 C 20110315; CN 1312261 C 20070425; CN 1501971 A 20040602; CZ 20032736 A3 20031217; CZ 299651 B6 20081001; DE 10117647 A1 20021017; DE 50201902 D1 20050203; EP 1379615 A1 20040114; EP 1379615 B1 20041229; ES 2235077 T3 20050701; HU P0303757 A2 20040301; JP 2004523641 A 20040805; JP 4116445 B2 20080709; KR 100861969 B1 20081008; KR 20030087063 A 20031112; MX PA03007944 A 20040402; NO 20034495 D0 20031008; NO 20034495 L 20031008; NO 325635 B1 20080630; PL 197796 B1 20080430; PL 367159 A1 20050221; PT 1379615 E 20050429; SK 11922003 A3 20040203; SK 286828 B6 20090605; US 2004116306 A1 20040617; ZA 200308690 B 20041108

DOCDB simple family (application)
EP 0203671 W 20020403; AR P020101223 A 20020403; AT 02759789 T 20020403; AU 2002308121 A 20020403; BR 0208415 A 20020403; CA 2442697 A 20020403; CN 02807902 A 20020403; CZ 20032736 A 20020403; DE 10117647 A 20010409; DE 50201902 T 20020403; EP 02759789 A 20020403; ES 02759789 T 20020403; HU P0303757 A 20020403; JP 2002579971 A 20020403; KR 20037013131 A 20031007; MX PA03007944 A 20020403; NO 20034495 A 20031008; PL 36715902 A 20020403; PT 02759789 T 20020403; SK 11922003 A 20020403; US 46977003 A 20030904; ZA 200308690 A 20031107