Title (en)

FUNCTIONAL FLUID COMPOSITION

Title (de)

FUNKTIONSFLÜSSIGKEITSZUSAMMENSETZUNG

Title (fr)

COMPOSITION DE FLUIDE FONCTIONNEL

Publication

EP 2197993 A2 20100623 (EN)

Application

EP 08836691 A 20080926

Priority

- US 2008077805 W 20080926
- US 97601007 P 20070928

Abstract (en)

[origin: US2009088349A1] The fluid compositions of the present invention include an glycol component that includes a mixture of glycols according the formula: Wherein, typically, at least one of R2, R3, R4 and R5 is an alkyl group. The physical properties of the compositions include a high dry equilibrium reflux boiling point (ERBP), a high wet equilibrium reflux boiling point (WERBP), a low temperature viscosity or any combination thereof. These compositions are particularly useful because their physical properties (e.g., WERBP, ERBP, and low temperature viscosity) meet or exceed the provisions for DOT 3, 4, or 5 brake fluids.

IPC 8 full level

C10M 105/18 (2006.01); **C10M 107/34** (2006.01); **C10M 111/04** (2006.01); **C10M 169/04** (2006.01); C10N 40/08 (2006.01)

CPC (source: EP US)

C10M 105/18 (2013.01 - EP US); **C10M 107/34** (2013.01 - EP US); **C10M 111/04** (2013.01 - EP US); **C10M 169/04** (2013.01 - EP US); C10M 2201/082 (2013.01 - EP US); C10M 2207/026 (2013.01 - EP US); C10M 2207/0406 (2013.01 - EP US); C10M 2207/046 (2013.01 - EP US); C10M 2209/104 (2013.01 - EP US); C10M 2209/1045 (2013.01 - EP US); C10M 2209/1055 (2013.01 - EP US); C10M 2209/1075 (2013.01 - EP US); C10M 2215/042 (2013.01 - EP US); C10N 2030/02 (2013.01 - EP US); C10N 2030/08 (2013.01 - EP US); C10N 2040/08 (2013.01 - EP US)

Citation (search report)

See references of WO 2009045880A2

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

US 2009088349 A1 20090402; BR PI0816035 A2 20180605; CN 101809129 A 20100818; EP 2197993 A2 20100623; JP 2010540728 A 20101224; WO 2009045880 A2 20090409; WO 2009045880 A3 20090604

DOCDB simple family (application)

US 23901208 A 20080926; BR PI0816035 A 20080926; CN 200880109063 A 20080926; EP 08836691 A 20080926; JP 2010527164 A 20080926; US 2008077805 W 20080926