

Title (en)  
MINERAL OIL BASED TRANSMISSION FLUID

Publication  
**EP 0436872 A3 19910911 (DE)**

Application  
**EP 90124345 A 19901215**

Priority  
DE 4000753 A 19900112

Abstract (en)  
[origin: EP0436872A2] Hydraulic fluids, predominantly for hydrokinetic drives, also called automatic transmission fluids (ATF), are based on mineral oil, the base oil being a paraffin-based oil raffinate having viscosities of about 4 mm<sup>2</sup>/s at 100 DEG C, with additives necessary for this application, with the exclusion of polyisobutylene-based dispersants, having been added thereto, and are formulated in such a way that they have Brookfield viscosities from less than 30,000 to less than 20,000 mPas at -40 DEG C. The decrease in viscosity at low temperatures is made possible by replacing the polyisobutylene-based dispersant by a dispersant based on polyalkyl (meth)acrylate.

IPC 1-7  
**C10M 169/04**; **C10M 145/14**; **C10M 149/02**

IPC 8 full level  
**C10M 145/14** (2006.01); **C10M 149/02** (2006.01); **C10M 169/04** (2006.01); **C10N 20/02** (2006.01); **C10N 20/04** (2006.01); **C10N 30/02** (2006.01); **C10N 30/04** (2006.01); **C10N 40/08** (2006.01)

CPC (source: EP)  
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Citation (search report)

- [XD] DE 3607444 A1 19870910 - ROEHM GMBH [DE]
- [A] GB 2189495 A 19871028 - ROEHM GMBH
- [AD] US 4822508 A 19890418 - PENNEWISS HORST [DE], et al
- [A] DE 1644951 A1 19710513 - SHELL INT RESEARCH
- [A] CHEMICAL ABSTRACTS, Band 79, Nr. 10, November 1973, Seite 76, Zusammenfassung Nr. 116842m, Columbus, Ohio, US; & JP-A-73 039 506 (KANEKAFUCHI CO.) 11-06-1973

Cited by  
EP0812901A3; US6124249A; US6409778B1; CN111918954A; US5843874A; KR100714141B1; EP0939114A3; US5866519A; US5807815A; US5646099A; US5641732A; EP1516913A3; US5821313A; US5641733A; EP3401382A1; EP0750031A3; US5969068A; EP0708170A1; US5726136A; EP0569639A1; US6271184B1; WO2004087851A1; WO9927037A1; US6294628B1; US6881780B2; US6639034B2; US6331603B1; US10351792B2

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