

Publication

EP 0579229 A3 19940413

Application

EP 93111379 A 19930715

Priority

JP 21065592 A 19920716

Abstract (en)

[origin: EP0579229A2] A fluid having magnetic and electrorheological effects simultaneously, which comprises a magnetic field-susceptible component, an electric field-susceptible component and an electrically insulating liquid has a larger torque and a higher response speed.

IPC 1-7

C10M 171/00; H01F 1/00; H01F 1/37

IPC 8 full level

C10M 171/00 (2006.01); **H01F 1/44** (2006.01)

CPC (source: EP)

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Citation (search report)

- [X] US 3385793 A 19680528 - KLASS DONALD L, et al
- [DXY] GB 1076754 A 19670719 - PURE OIL CO
- [Y] EP 0478034 A1 19920401 - ASAHI CHEMICAL IND [JP]
- [XY] US 2661596 A 19531208 - WINSLOW WILLIS M
- [Y] US 2452529 A 19481026 - LOUIS SNOCK JACOB
- [E] EP 0566931 A1 19931027 - BASF AG [DE]
- [A] US 3228881 A 19660111 - THOMAS JOHN R
- [PX] DATABASE WPI Section Ch Week 9244, Derwent World Patents Index; Class G04, AN 92-360957
- [X] DATABASE WPI Section Ch Week 8310, Derwent World Patents Index; Class M22, AN 83-24583K

Cited by

US5746934A; EP0644253A3; US5516445A; US5523157A; EP0785248A1; EP0625565A1; US5679280A; EP0670363A3; US5536428A

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