

Title (en)

Magnetorheological fluids and polymer coated magnetic particles

Title (de)

Magnetorheologische Flüssigkeiten, und mit Polymer beschichteten magnetisierbaren Teilchen

Title (fr)

Fluides magnétorhéologiques et particules magnétiques revêtues d'un polymère

Publication

EP 0845790 A1 19980603 (DE)

Application

EP 97120063 A 19971117

Priority

DE 19649321 A 19961128

Abstract (en)

Magneto-rheological fluid consists of magnetisable particles of an oleophilic fluid and optionally a thickener. The magnetisable particles are coated with an organic polymer. Also claimed is the production of the magnetisable particles coated with polymer comprising silanizing the particles by reacting with a silane of formula: R1-Si((R2)a)(X2)3a (where R1 = 1-20C alkyl or 2-20C alkylene optionally substituted with an amino, isocyanate, methacryloxy, acryloyloxy, epoxy or mercapto group and/or interrupted by O, NH, COO or NHCOO; R2 = phenyl, or 1-6C alkyl; X = hydrolysable group; and a = 0-2).

Abstract (de)

Die Erfindung betrifft neue magnetorheologische Flüssigkeiten, ein Verfahren zu deren Herstellung und deren Verwendung sowie Verfahren zur Herstellung von mit einem organischen Polymer beschichteten magnetisierbaren Teilchen.

IPC 1-7

H01F 1/44; H01F 1/06

IPC 8 full level

H01F 1/06 (2006.01); **H01F 1/44** (2006.01)

CPC (source: EP US)

H01F 1/061 (2013.01 - EP US); **H01F 1/447** (2013.01 - EP US)

Citation (search report)

- [DXA] US 5354488 A 19941011 - SHTARKMAN EMIL M [US], et al
- [A] WO 9410693 A1 19940511 - LORD CORP [US]
- [X] EP 0023265 A1 19810204 - BAYER AG [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 502 (E - 1147) 18 December 1991 (1991-12-18)

Cited by

DE10333703B4; US7959822B2; WO0131662A1; WO0127945A1; DE102010026782A1; WO2012004236A1

Designated contracting state (EPC)

CH DE FR GB IT LI NL

DOCDB simple family (publication)

EP 0845790 A1 19980603; EP 0845790 B1 20020710; DE 59707683 D1 20020814; JP H10163021 A 19980619; KR 19980042844 A 19980817; US 5989447 A 19991123

DOCDB simple family (application)

EP 97120063 A 19971117; DE 59707683 T 19971117; JP 33824597 A 19971125; KR 19970063473 A 19971127; US 97655597 A 19971124