

Title (en)

MAGNETIC FLUID WITH HIGH SATURATION MAGNETISATION

Title (de)

MAGNETOFLUID MIT HOHER SÄTTIGUNGSMAGNETISIERUNG

Title (fr)

FLUIDE MAGNETIQUE PRESENTANT UNE AIMANTATION A SATURATION ELEVEE

Publication

EP 0823123 A1 19980211 (DE)

Application

EP 97918008 A 19970227

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Abstract (en)

[origin: WO9732321A1] The aim of the invention is to create a magnetic fluid with high saturation magnetisation and a saturation concentration above 100 mT in order to transmit greater loads. This is done according to the invention by forming stable dispersions in carrier fluids of cobalt and nanometer particles modified with adsorption layers. The volume concentration of the ferromagnetic components is between 5 and 35 %, preferably 15 and 30 %, and the volume concentration of the modified particles (bare particles with adsorption coating) is up to 50 vol. %.

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H01F 1/44

IPC 8 full level

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