

Title (en)
MONODISPERSABLE MAGNETIC NANOCOLLOIDS HAVING AN ADJUSTABLE SIZE AND METHOD FOR THE PRODUCTION THEREOF.

Title (de)
MONODISPERSE, MAGNETISCHE NANOKOLLOIDE EINSTELLBARER GRÖSSE UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)
NANOCOLLOIDES MAGNETIQUES A DISPERSION UNIFORME ET DE TAILLE AJUSTABLE, ET LEUR PROCEDE DE PRODUCTION

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Application
EP 03722460 A 20030412

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Abstract (en)
[origin: CA2489975A1] The invention relates to monodispersable, optionally magnetic particles containing one or more metals, optionally, protected by a secondary treatment with air, having an adjustable average particle size of between 2 and 15 nm and a narrow distribution of particle size with a standard variance of 1.6 nm at the most. The invention also relates to a method for the production of said materials. Said materials are used in an isolated form or dispersed in a solution inter alia as a sealing medium against dust and gas in magnetic fluid sealing systems (liquid O-ring) for the lubrication and bearing of rotating shafts (magnetic levitation bearings), for the magneto-optical storage of information and additionally, for the magnetic marking of cells and the separation thereof in biological samples or for the local application of medicaments.

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