

## Title (en)

MAGNETIC NANODISPERSION COMPRISING CYCLODEXTRINES AND METHOD FOR THE PRODUCTION THEREOF

## Title (de)

MAGNETISCHE NANODISPERSION MIT CYCLODEXTRINEN UND VERFAHREN ZU IHRER HERSTELLUNG

## Title (fr)

NANODISPERSION MAGNETIQUE COMPRENANT DES CYCLODEXTRINES ET PROCEDES POUR LA PRODUIRE

## Publication

**EP 1439860 A1 20040728 (DE)**

## Application

**EP 02772398 A 20021028**

## Priority

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## Abstract (en)

[origin: WO03035113A1] The invention relates to a magnetic dispersion based on water and/or dispersing agents mixable with water and nanoparticles dispersed and stabilized therein. The invention also relates to a method for the production of said magnetic dispersion. The invention has the aim of providing a magnetic dispersion having high saturation polarization with greater biocompatibility, the magnetic particles of said dispersion being suitable as transport vehicles for other pharmacologically and biologically active substances and a method for the production of said magnetic dispersion. According to the invention, the magnetic nanoparticles consist of magnetic core particles and an envelope of general formula  $M[Ap,C,Bq]$ , wherein M are core particles, A are reactive groups, B are bioactive groups and C is cyclodextrine, consisting of 1,4-linked glucose units  $(C_6H_7O_5)_m[(3H)m-(p+q)]$ , wherein  $m = 6$  to  $12$ ,  $p$  is the number of A groups  $1$  to  $3m$  and  $q$  is the number of B groups  $3m-p$ .

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## IPC 8 full level

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