

Title (en)

AQUEOUS DISPERSIONS OF NANOMETRIC OR MICROMETRIC PARTICLES FOR ENCAPSULATING CHEMICAL COMPOUNDS

Title (de)

WÄSSRIGE DISPERSIONEN VON TEILCHEN IM NANOBEREICH ODER MIKROBEREICH ZUM VERKAPSELN VON VERBINDUNGEN

Title (fr)

DISPERSIONS AQUEUSES DE PARTICULES NANOMETRIQUES OU MICROMETRIQUES POUR L'ENCAPSULATION DE COMPOSES CHIMIQUES

Publication

EP 1521575 A1 20050413 (FR)

Application

EP 03763923 A 20030701

Priority

- FR 0302045 W 20030701
- FR 0208766 A 20020711

Abstract (en)

[origin: WO2004006897A1] The invention concerns a composition comprising an aqueous dispersion of particles (p) of hydrodynamic mean diameter ranging between 50 and 5000 nm, said particles containing, in combination: (A) polymers based on cyclodextrin units, including on the average at least 4 cyclodextrin units inside their structure; and (B) polysaccharide macromolecules including groups G capable of forming inclusion complexes with the cyclodextrins present in the structure of said polymers (A), the average number of groups G per polysaccharide molecule being not less than 3, said compounds (A) and (B) being water-soluble in isolated state. The invention also concerns the method for preparing said compositions, and their use for encapsulating compounds such as active principles.

IPC 1-7

A61K 9/51; **A61K 47/48**

IPC 8 full level

A61K 9/127 (2006.01); **A61K 9/22** (2006.01); **A61K 9/51** (2006.01); **A61K 47/36** (2006.01); **A61K 47/40** (2006.01); **A61K 47/48** (2006.01); **A61P 25/20** (2006.01); **A61P 29/00** (2006.01); **A61P 35/00** (2006.01); **B01J 13/04** (2006.01); **C08L 5/16** (2006.01)

CPC (source: EP US)

A61K 9/5161 (2013.01 - EP US); **A61K 47/6951** (2017.07 - EP US); **A61P 25/20** (2017.12 - EP); **A61P 29/00** (2017.12 - EP); **A61P 35/00** (2017.12 - EP); **B82Y 5/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2004006897A1

Citation (examination)

MCCORMICK C: "Stimuli-Responsive Water Soluble and Amphiphilic Polymers, ACS Symposium Series", vol. 780, 28 November 2000, Washington DC, article CATHERINE AMIEL ET AL: "Macromolecular Assemblies Generated by Inclusion Complexes between Amphipathic Polymers and Beta-Cyclodextrin Polymers in Aqueous Media", pages: 58 - 81, DOI: 10.1021/bk-2001-0780.ch004

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2842106 A1 20040116; **FR 2842106 B1 20060714**; AU 2003260646 A1 20040202; AU 2003260646 A8 20040202; EP 1521575 A1 20050413; JP 2005536587 A 20051202; JP 4566739 B2 20101020; US 2005250881 A1 20051110; US 7682635 B2 20100323; WO 2004006897 A1 20040122

DOCDB simple family (application)

FR 0208766 A 20020711; AU 2003260646 A 20030701; EP 03763923 A 20030701; FR 0302045 W 20030701; JP 2004520717 A 20030701; US 52065705 A 20050630