

Title (en)
HIGHLY CONCENTRATED AQUEOUS DISPERSIONS CONTAINING HYDROPHILIC MICROFINE METAL OXIDE PARTICLES AND A DISPERSANT

Title (de)
HOCHKONZENTRIERTE WÄSSRIGE DISPERSIONEN ENTHALTEND HYDROPHILE MIKROFEINE METALLOXIDPARTIKEL UND DISPERGIERHILFSMITTEL

Title (fr)
DISPERSIONS AQUEUSES HAUTE CONCENTRATION RENFERMANT DES PARTICULES D'OXYDE METALLIQUE HYDROPHILES MICROFINES ET UN AGENT DISPERSANT

Publication
EP 1509193 A1 20050302 (DE)

Application
EP 03730067 A 20030517

Priority
• DE 10225123 A 20020606
• EP 0305203 W 20030517

Abstract (en)
[origin: US2003229172A1] Aqueous dispersions comprising microfine metal oxide particles and dispersion auxiliaries, wherein, as dispersion auxiliaries, at least one of the compounds of the general formula (I) in which M is hydrogen, monovalent or divalent metal cation, ammonium ion, organic amine radical; a is 1, or where M is a divalent metal cation, is $\frac{1}{2}$; X is likewise -OMa or -O-(CpH₂pO)_q-R<1> where R<1>=H, aliphatic hydrocarbon radical having 1-20 carbon atoms, cycloaliphatic hydrocarbon radical having 5 to 8 carbon atoms, optionally substituted aryl radical having 6 to 14 carbon atoms, p=2 to 4, q=0 to 100, -NHR<2> and/or -NR<2>₂ where R<2>=R<1> or -CO-NH₂; Y is O, NR<2>; A<1> is ethylene radical, propylene radical, isopropylene radical, butylene radical; m is 10 to 30; n is 0 to 50; and k is 10 to 30, where the summ+k is in the range from 20 to 60, is co-used.

IPC 1-7
A61K 7/42; **B01F 17/00**

IPC 8 full level
A61K 8/19 (2006.01); **A61K 8/00** (2006.01); **A61K 8/04** (2006.01); **A61K 8/25** (2006.01); **A61K 8/26** (2006.01); **A61K 8/27** (2006.01); **A61K 8/29** (2006.01); **A61K 8/30** (2006.01); **A61K 8/34** (2006.01); **A61K 8/72** (2006.01); **A61K 8/81** (2006.01); **A61Q 17/04** (2006.01); **C09K 23/00** (2022.01); **C09K 23/14** (2022.01); **C09K 23/52** (2022.01)

CPC (source: EP US)
A61K 8/04 (2013.01 - EP US); **A61K 8/044** (2013.01 - EP US); **A61K 8/27** (2013.01 - EP US); **A61K 8/29** (2013.01 - EP US); **A61K 8/8164** (2013.01 - EP US); **A61Q 17/04** (2013.01 - EP US); **C09K 23/017** (2022.01 - EP US); **C09K 23/16** (2022.01 - EP US)

Citation (search report)
See references of WO 03103619A1

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)
US 2003229172 A1 20031211; **US 7399487 B2 20080715**; AU 2003240671 A1 20031222; AU 2003240671 B2 20071011; CA 2484783 A1 20031218; DE 10225123 A1 20031218; EP 1509193 A1 20050302; JP 2005529939 A 20051006; PL 372066 A1 20050711; WO 03103619 A1 20031218

DOCDB simple family (application)
US 45627603 A 20030606; AU 2003240671 A 20030517; CA 2484783 A 20030517; DE 10225123 A 20020606; EP 0305203 W 20030517; EP 03730067 A 20030517; JP 2004510739 A 20030517; PL 37206603 A 20030517