

Title (en)
LIQUID CONCENTRATE OF MINERAL FILLERS CONTAINING GRAFTED POLYMERS AND THEIR USE FOR PREPARING PAINTS IN AQUEOUS AND/OR ORGANIC MEDIUM

Title (de)
Flüssiges Konzentrat aus mineralischen Füllstoffen enthaltend Propfcopolymere und seine Anwendung zur Herstellung von Anstrichstoffen in wässrigem oder organischem Medium

Title (fr)
CONCENTRE LIQUIDE DE CHARGES MINERALES CONTENANT DES COPOLYMERES GREFFES ET LEUR UTILISATION POUR LA PREPARATION DE PEINTURES EN MILIEU AQUEUX ET/OU ORGANIQUE

Publication
EP 1383843 A1 20040128 (FR)

Application
EP 02759807 A 20020329

Priority
• FR 0201112 W 20020329
• FR 0104626 A 20010405

Abstract (en)
[origin: WO02081581A1] The invention concerns a liquid concentrate of mineral fillers comprising an aqueous or organic solvent, mineral fillers useful for making paints, with a dry extract of mineral fillers not less than 65 %, and a grafted copolymer consisting of 1) 5 to 40 wt. %, preferably 15 to 35 wt. %, more preferably still 20 to 30 wt. % of said anchoring sequence(s) consisting of a linear copolymer formed from at least two different monomer units including: a first ethylene monomer unit comprising at least a basic nitrogenous group, a second unsaturated ethylene monomer unit comprising an aromatic group, preferably a phenyl, the weight content in said first monomer units relative to said second monomer units being from 40 to 60 wt. %, preferably about 50 wt. %; 2) 25 to 90 wt. %, preferably 40 to 80 wt. %, more preferably still 50 to 70 wt. % of said organo-soluble hydrophobic sequence(s) to disperse the particles in apolar medium; and 3) 5 to 70 wt. %, preferably 15 to 30 wt. %, more preferably still 10 to 20 wt. % of hydrophilic sequences comprising a water-soluble polymer.

IPC 1-7
C09D 151/00; **C08K 9/08**; **C08F 290/04**; **C08F 290/06**

IPC 8 full level
C08F 290/04 (2006.01); **C08F 290/06** (2006.01); **C09D 151/00** (2006.01)

CPC (source: EP US)
C08F 290/046 (2013.01 - EP US); **C08F 290/062** (2013.01 - EP US); **C09D 151/00** (2013.01 - EP US)

Citation (search report)
See references of WO 02081581A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 02081581 A1 20021017; EA 005272 B1 20041230; EA 200300959 A1 20040429; EP 1383843 A1 20040128; FR 2823213 A1 20021011; FR 2823213 B1 20070608; US 2004106715 A1 20040603; US 7193008 B2 20070320

DOCDB simple family (application)
FR 0201112 W 20020329; EA 200300959 A 20020329; EP 02759807 A 20020329; FR 0104626 A 20010405; US 47248903 A 20030930