

Title (en)

METAL OXIDE DISPERSION BASED ON ORGANIC SOLVENT

Title (de)

AUF ORGANISCHEM LÖSUNGSMITTEL BASIERENDE METALLOXID-DISPERSION

Title (fr)

DISPERSION D'OXYDE MÉTALLIQUE À BASE D'UN SOLVANT ORGANIQUE

Publication

**EP 2709751 A1 20140326 (DE)**

Application

**EP 12719664 A 20120502**

Priority

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- EP 2012057968 W 20120502

Abstract (en)

[origin: WO2012156199A1] Dispersion comprising metal oxide particles, in which a) the metal oxide particles a1) are selected from one or more oxides from the group consisting of titanium dioxide, cerium oxide, zinc oxide and zirconium dioxide, a2) are present in the dispersion with a proportion of at least 25% by weight, a3) have a mean aggregate diameter of 20 to 120 nm, and b) the liquid phase comprises b1) 90 to 99.5% by weight of one or more alkanols C<sub>n</sub>H<sub>2n+1</sub>OH where n = 2 to 4, b2) 0.5 to 10% by weight of one or more α,β-unsaturated carboxylic acids having 4 to 12 carbon atoms, b3) 0 to 2% by weight of one or more alkanediols HO(CH<sub>2</sub>)<sub>x</sub>OH where x = 2 to 4, b4) a maximum of 5% by weight of water and b5) a maximum of 2% by weight, in total, of dispersing additives from the group consisting of polyoxyethylated alkyl ether phosphates, polyoxyethylated aryl ether phosphates; alkylolammonium salts of block copolymers having acidic groups; polyalkylene glycols, polyalkylene imines, polyalkylene alcohols. Use of the dispersion for production of dye solar cells.

IPC 8 full level

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CPC (source: EP KR)

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