

Title (en)

METHOD OF MAKING SILVER-CONTAINING DISPERSIONS WITH NITROGENOUS BASES

Title (de)

VERFAHREN ZUR HERSTELLUNG SILBERHALTIGER DISPERSIONEN MIT STICKSTOFFHALTIGEN BASEN

Title (fr)

PROCÉDÉ DE FABRICATION DE DISPERSIONS CONTENANT DE L'ARGENT AVEC DES BASES AZOTÉES

Publication

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Application

EP 18779896 A 20180911

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Abstract (en)

[origin: WO2019060166A1] A method is used to prepare silver nanoparticle cellulosic polymer composites. A cellulosic polymer, reducible silver ions in an amount of a weight ratio to the cellulosic polymer of 5: 1 to 50: 1, and an organic solvent are mixed. Each organic solvent has a boiling point at atmospheric pressure of 100°C to 500°C. The Hansen parameter ($\delta\tau$ Polymer) of the cellulosic polymer is less than or equal to the Hansen parameter ($\delta\tau$ Solvent) of the organic solvent. The resulting premix solution is heated to at least 75°C, and a (d) nitrogenous base is added to provide a concentration of the nitrogenous base in an equimolar amount or in molar excess in relation to the amount of reducible silver ions, thereby forming a silver nanoparticle cellulosic polymer composite. After cooling, the silver nanoparticle cellulosic polymer composite is isolated and re-dispersed in an organic solvent to provide a non-aqueous silver-containing dispersion.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2019060166A1

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