

Title (en)
METHOD FOR TREATING SURFACES OF TEXTILES AND NON-TEXTILES, IN SUCH A WAY AS TO STIMULATE THE DETACHMENT OF DIRT

Title (de)
VERFAHREN ZUR SCHMUTZABLÖSUNGSFÖRDERNDEN BEHANDLUNG VON OBERFLÄCHEN TEXTILER UND NICHT-TEXTILER MATERIALIEN

Title (fr)
PROCEDE DE TRAITEMENT FAVORISANT LE DECOLLEMENT DE SALETE DE SURFACES DE MATERIAUX TEXTILES ET NON TEXTILES

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Application
EP 02780767 A 20020613

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Abstract (en)
[origin: DE10128900A1] The invention relates to a method for treating surfaces of textiles and non-textiles, in such a way as to stimulate the detachment of dirt. Cationically modified hydrophilic nanoparticles based on non-crosslinked polymers consisting of (a) between 60 and 100 wt. % of at least one ethylenically unsaturated monomer containing carboxyl groups, or the salts thereof, (b) between 0 and 40 wt. % of at least one water-insoluble monoethylenically unsaturated monomer, (c) between 0 and 25 wt. % of at least one monomer containing sulfonic acid and/or phosphonic acid groups, or the salts thereof, and (d) between 0 and 30 wt. % of at least one water-insoluble non-ionic monomer from an aqueous dispersion, are applied to the surface of said textiles or non-textiles. The dispersion of the hydrophilic nanoparticles can be stabilised with anionic, non-ionic and/or betainic emulsifiers and/or protective colloids. Said hydrophilic nanoparticles have a particulate size of between 10 nm and 2 μ m and can be cationically modified by coating their surface with at least one cationic polymer, at least one polyvalent metal ion and/or at least one cationic surfactant.
[origin: DE10128900A1] Cationically surface-modified hydrophilic non-crosslinked homo or co-polymer nanoparticles are claimed, as is also stain-release treatment of textile or non-textile surfaces using aqueous dispersions of the particles. INDEPENDENT CLAIMS are included for: (1) cationically-modified hydrophilic non-crosslinked polymer nanoparticles of size 10 nm to 2 microns which are surface-coated with cationic polymers, polyvalent metal ions or cationic surfactants, the crosslinked polymer comprising (by wt.) (a) carboxyl group-containing ethylenically-unsaturated monomers or salts (60-100%); (b) water-insoluble mono- ethylenically-unsaturated monomers (0-40%); (c) sulfonic- and/or phosphonic-acid-containing monomers (0-25%); and (d) water-soluble nonionic monomers (0-30%); (2) aqueous dispersions of such particles, the dispersions being stabilized with anionic, nonionic and/or betaine-type surfactants and/or protective colloids; and (3) stain-releasing treatment of textile or non-textile surfaces using the dispersions.

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