

Title (en)
HAIR TREATMENT PRODUCTS COMPRISING POLYMERS

Title (de)
HAARBEHANDLUNGSMITTEL ENTHALTEND POLYMERE

Title (fr)
AGENT DE TRAITEMENT CAPILLAIRE CONTENANT DES POLYMÈRES

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Application
EP 07820372 A 20070920

Priority
• EP 2007059928 W 20070920
• DE 102006050650 A 20061024

Abstract (en)
[origin: DE102006050650A1] Hair treatment agent comprises at least a copolymer (A) of: monomer (I); monomer (II) comprising e.g. (meth)acrylic acid, phosphopropylacrylate and vinylpyrrolidone, and optionally non-ionic monomer; at least a silicone; and at least a caring agent comprising e.g. monomers, oligomers and polymers of amino acids, DNA- or RNA-oligonucleotides, vitamins, alpha -hydroxycarboxylic acid, flavonoid, isoflavonoid enriched plant extract, polyphenol, ubiquinone, silymarin, ectoin, purine, carbohydrates, hydantoin, 2-furanone and taurine. Hair treatment agent comprises at least a copolymer (A) of 0.1-50% of: monomer of formula (H 2C=C(R 1>)-Z-(CH 2) n-N +>(R 2>)(R 3>)-[A-N +>(R 2>)(R 3>)] m-B 1>-N +>(R 4>)(R 5>)(R 6>)(3X ->)) (I); monomer (II) comprising acrylic acid, methacrylic acid, alpha -ethacrylic acid, beta ,beta -dimethyl acrylic acid, vinylacetic acid, allyl acetic acid, ethylidene acetic acid, propylidene acetic acid, crotonic acid, maleic acid, fumaric acid, itaconic acid, citraconic acid, mesaconic acid, N-methacryloylalanine, N-acryloylhydroxyglycine, sulfopropylacrylate, sulfoethylacrylate, sulfoethylmethacrylate, sulfoethylmethacrylate, styrenesulfonic acid, vinylsulfonic acid, vinylphosphonic acid, phosphoethylacrylate, phosphonoethyl acrylate, phosphopropyl acrylate, phosphonopropylacrylate, phosphoethyl methacrylate, phosphonoethyl methacrylate, phosphopropyl methacrylate, phosphonopropyl methacrylate and their alkali metals- and ammonium salts; and optionally non-ionic monomer (III) comprising acrylamide, vinylalcohol, 1-4C-alkylester of (meth)acrylic acid, 1-4C-hydroxyalkylester of (meth)acrylic acid, preferably ethylene glycol- and propylene glycol acrylate and -methacrylate, polyalkoxylated ester of (meth)acrylic acid, preferably polyethylene glycol- and polypropylene glycolester, ester of (meth)acrylic acid with polyethylene glycol- or polypropylene glycol-mono(1-25C)alkyl vinylacetate, vinylpyrrolidone and methylvinylether, where (II) and (III) together amounts to 50-99.9%; at least a silicone; at least a caring agent comprising monomers, oligomers and polymers of amino acids, N-2-24C-acylamino acid and/or their esters or salts; DNA- or RNA-oligonucleotides; vitamins, provitamins and vitamin precursors of the groups A, B, C, E, H and K and their esters; alpha -hydroxycarboxylic acid, alpha -ketocarboxylic acid, beta -hydroxycarboxylic acid and its ester-, lactone- or salt form; flavonoid and flavonoid enriched plant extract; isoflavonoid and isoflavonoid enriched plant extract; polyphenol and polyphenol enriched plant extract; ubiquinone and its derivatives; silymarin; ectoin; purine and its derivatives; carbohydrates comprising monosaccharides, disaccharides and/or oligosaccharides; hydantoin or its derivatives; 2-furanone or its derivatives; taurine (2-aminoethanesulfonic acid); and/or carnitine, carnitine tartrate, carnitine magnesium citrate, acetylcarnitine, 3-O-lauroyl-L-carnitine hydrochloride, 3-O-octanoyl-L-carnitine hydrochloride, 3-O-palmitoyl-L-carnitine hydrochloride, taurine, taurine lysylate, taurine tartrate, taurine ornithate, lysyl taurine and ornithyl taurine, betalain, 1,1-dimethyl-proline, hercynine (Nalpha ,Nalpha ,Nalpha -trimethyl-L-histidinium-betaine), ergothioneine (thionein, 2-mercapto-Nalpha ,Nalpha ,Nalpha -trimethyl-L-histidinium-betaine), choline, choline chloride, choline bitartrate or choline dihydrogen citrate. R 1>H, CH 3 (preferred) or CH 2CH 3; R 2>-R 6>H, CH 3 (preferred), CH 2CH 3, (CH 2) 2CH 3, CH(CH 3) 2, (CH 2) 3CH 3, CH(CH 3)CH 2CH 3, CH 2CH(CH 3) 2, C(CH 3) 2, CH 2-OH, (CH 2) 2-OH, CH(OH)-CH 3, CH(OH)CH 2CH 3, CH 2CH(OH)CH 3, (CH 2) 3OH, CH 2-NH 2, (CH 2) 2-NH 2, CH(NH 2)-CH 3, CH(NH 2)CH 2CH 3, CH 2CH(NH 2)CH 3 or (CH 2) 3NH 2; n : 1-6, preferably 2, 3 (preferred) or 4; m : 0-10, preferably 0 (preferred), 1 or 2; Z : O, -C(O)-O- or -C(O)-NH- (preferred); A : -(CH 2) 2-, -(CH 2) 3-, -(CH 2) 4- (all preferred), -CH 2-, -(CH 2) 5- or -(CH 2) 6-; B 1>2-12C, preferably 3-6C-polymethylene chain (optionally interrupted one or more heteroatoms, preferably -O- or -NH-, and optionally substituted with one or more hydroxy- and/or amino group), preferably -(CH 2) 3-, -(CH 2) 4-, -(CH 2) 5-, -(CH 2) 6-, -CH 2-CH(OH)-CH 2- (preferred) or -CH 2-CH(NH 2)-CH 2-; and X : anion, preferably chloride, bromide, iodide, sulfate or methosulfate. An independent claim is included for a method for the treatment of skin or hair, comprising applying the hair treatment agent on the skin and/or hair, and rinsing out the agent after an impact time of 0-45 minutes.

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