

Title (en)
METHOD FOR CONTROLLED FREE RADICAL POLYMERIZATION OR COPOLYMERIZATION OF METHACRYLIC AND/OR METHACRYLATE MONOMERS OR EXCLUSIVELY METHACRYLIC AND/OR METHACRYLATE COPOLYMERS

Title (de)
VERFAHREN ZUR KONTROLLIERTEN RADIKALISCHEN POLYMERISATION ODER COPOLYMERISATION VON METHACRYL- UND/ODER METHACRYLATMONOMEREN ODER REINEN METHACRYL- UND/ODER METHACRYLAT-COPOLYMEREN

Title (fr)
PROCEDE DE POLYMERISATION OU COPOLYMERISATION RADICALAIRE CONTROLEE DE MONOMERES METHACRYLIQUES ET/OU METHACRYLATES POUR REALISER DES POLYMERES METHACRYLIQUES OU METHACRYLATES OU DES COPOLYMERES EXCLUSIVEMENT METHACRYLIQUES ET/OU METHACRYLATES

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Application
EP 06842042 A 20061124

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Abstract (en)
[origin: FR2893620A1] Polymerization of methacrylic and/or methacrylate monomers to synthesize methacrylate/methacrylic polymers, or methacrylic and/or methacrylate copolymers, comprises contacting the monomers with a nitroxide compound (I) or with a fused pyrrolidine compounds (II). Polymerization of methacrylic and/or methacrylate monomers to synthesize methacrylate/methacrylic polymers, or methacrylic and/or methacrylate copolymers, comprises contacting the monomers with a nitroxide compounds of formula (I) or with a fused pyrrolidine compounds of formula (II). A+2C : hydrocarbon group forming an aromatic cycle (optionally substituted or optionally fused with optionally substituted aromatic or aliphatic rings); R 1, R 2alkyl, alkenyl, aryl (all optionally substituted), -OH, -OR 5, -COOH, -COOR 6or CN; R 5-R 7alkyl, alkenyl, aryl or aralkyl (all optionally substituted); either R 3, R 4H or R 1; or R 3R 4X; X : O or NR 7; Z : -CR 8R 9R 10; R 8, R 9alkyl (optionally substituted); R 10alkenyl, aryl, aralkyl (all optionally substituted), CN or COOR 11; and R 11H, Li, Na, K, NH 4+>or R 7. Independent claims are included for: (1) methacrylate/methacrylic polymers, or exclusively methacrylic and/or methacrylate copolymers prepared by the process; (2) a cosmetic composition comprising the (co)polymer in a medium; (3) an adhesive composition comprising the (co)polymer; (4) a thermoplastic composition comprising the (co)polymer; (5) the fused pyrrolidine compound (II); and (6) the preparation of (II) comprising reaction of (I) with a halide of formula (Z-X 1) in a medium comprising an organic solvent and an organometallic system containing a metal salt of formula (MX 1) and an organic ligand containing amino group. X 1halo; and M : transition metal, preferably Cu. [Image].

IPC 8 full level
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CPC (source: EP US)
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