

Title (en)
Use of comb polymers as soil release polymers

Title (de)
Verwendung von Kammpolymeren als Schmutzablösepolymere

Title (fr)
Utilisations de polymères peignes comme polymères éliminant la saleté

Publication
EP 1035194 A3 20020102 (DE)

Application
EP 00102085 A 20000203

Priority
DE 19906367 A 19990216

Abstract (en)
[origin: DE19906367A1] Soil release polymers are comb polymers (I) obtained by condensation of: (a) a polycarboxylic acid or polyol; (b) optionally sulfonated di-, tri- or tetrahydric polyol(s) or polyglycols; (c) optionally 2-10 carbon dicarboxylic acid(s); and (d) compound(s) selected from mono- or di-alkyl- or -aryl-amines, alcohols or phenols, carboxylic acids, glycols or (poly)ether glycols and sulfonated alcohols. Compound(s) (III) selected from mono- or di-alkyl- or -aryl-amines (IIIA, IIIB), alcohols or phenols (IIIC), carboxylic acids (IIID), glycols or (poly)ether glycols (IIIE) and sulfonated alcohols (IIIF) are comprised of formulae: HO-(XO)a-H (II) NH₂R (IIIA) NHR₂ (IIIB) ROH (IIIC) R<1>COOH (IIID) HO(XO)bH (IIIE) HO(CH₂CH₂)dSO₃K (IIIF) X = C₂H₄ and/or C₃H₇; a = 2-35, preferably 2-5; b = 2-40, preferably 3-20; d = 1-10, preferably 1-4; K = a cation; R = 1-22C alkyl or 6-10C aryl; R<1> = 1-22C alkyl or sulfoalkyl, 6-10C aryl or sulfoaryl; An Independent claim is also included for the production of the oligoester (I).

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CPC (source: EP US)
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Citation (search report)
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