

Title (en)

WASHING AGENT HAVING LAUNDRY SOFTENING PROPERTIES AND PROCESS FOR ITS PRODUCTION

Publication

**EP 0151936 B1 19890503 (DE)**

Application

**EP 85100278 A 19850112**

Priority

DE 3402437 A 19840125

Abstract (en)

[origin: EP0151936A2] 1. A detergent based on anionic and non-ionic surfactants that has fabric-softening properties, characterized in that it contains, as fabric softener, from 5 to 25 % by weight of a powdered fabric-softening agent consisting of A) from 60 to 80 % by weight of a fabric softener based on one or more nitrogenous cationic surface-active substances having at least one hydrocarbon group that is attached to the nitrogen atom and has at least 8 carbon atoms, which softener optionally contains conventional additives, wherein the surface-active substances consist of at least one of the following compounds : a) a quaternary ammonium compound of the formula see diagramm : EP0151936,P6,F1 wherein R\*\*1 and R\*\*2 are alkyl radicals having from 8 to 24 C-atoms, R\*\*3 and R\*\*4 are alkyl radicals having from 1 to 4 C-atoms, and A- is an anion, b) an alkylimidazolinium compound of the general formula see diagramm : EP0151936,P7,F2 wherein R\*\*5 is an alkyl radical having from 1 to 4 C-atoms, R\*\*6 is an alkyl radical having from 8 to 25 C-atoms, R\*\*7 is an alkyl radical having from 1 to 4 C-atoms or is hydrogen, and R\*\*8 is an alkyl radical having from 8 to 25 C-atoms, and A- is an anion, c) a quaternary ammonium compound of the general formula see diagramm : EP0151936,P7,F3 wherein R\*\*9 and R\*\*10 are alkyl radicals having from 8 to 24 C-atoms or are fatty acid amidoalkyl radicals, R\*\*11 is an alkyl radical having from 1 to 4 C-atoms, R\*\*12 is hydrogen or methyl, x is an interger from 1 to 5, and A- is an anion, and B) from 20 to 40 % by weight of a highly adsorbent silicic acid having a surface area of from approximately 250 to approximately 600 m\*\*2/g, wherein component A) has been adsorbent onto component B).

IPC 1-7

**C11D 1/62; C11D 3/00; C11D 3/12; C11D 17/00**

IPC 8 full level

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CPC (source: EP)

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Cited by

EP0881279A3; EP0523287A1; GB2507750A; US4919846A; EP0247832A1; GB2313602A; EP0175287A3; EP0359630A1; FR2636342A1; US7288498B1; WO02081612A1

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**EP 85100278 A 19850112**; AT 85100278 T 19850112; AU 3772285 A 19850116; CA 472217 A 19850116; DE 3402437 A 19840125; DE 3569939 T 19850112; DK 16885 A 19850114; JP 930885 A 19850123; NO 850289 A 19850124; ZA 85625 A 19850125