

Title (en)
DETERGENTS CONTAINING SOFTENERS

Publication
EP 0263520 A3 19900328 (DE)

Application
EP 87114700 A 19871008

Priority
DE 3634279 A 19861008

Abstract (en)
[origin: EP0263520A2] The softener-containing detergents contain, besides the customary detergent ingredients, 0 to 10% by weight of a quaternary ammonium compound and 1 to 30% by weight of a softener system consisting of 10 to 90% by weight of an alkylamine and 90 to 10% by weight of a crystalline sheet silicate of the formula $\text{Me}_2\text{SixO}_{2x+1} \cdot \text{Y} \cdot \text{H}_2\text{O}$ where Me is an alkali metal ion or a proton, x is a number below 7, preferably from 1.5 to 4, in particular 2, and y is a number below 7 x, in particular below 2x. The alkylamine is in this case adsorbed onto the alkali metal silicate. The alkylamines adsorbed onto the silicate display, together with the quaternary ammonium compounds, a softening effect in the detergent but, on the other hand, are compatible with anionic surfactants in the detergent.

IPC 1-7
C11D 1/62; **C11D 3/12**

IPC 8 full level
C11D 1/40 (2006.01); **C11D 1/44** (2006.01); **C11D 1/58** (2006.01); **C11D 3/00** (2006.01); **C11D 3/12** (2006.01)

CPC (source: EP)
C11D 1/40 (2013.01); **C11D 1/44** (2013.01); **C11D 1/58** (2013.01); **C11D 3/001** (2013.01); **C11D 3/1273** (2013.01)

Citation (search report)
• [A] EP 0163910 A1 19851211 - HOECHST AG [DE]
• [AD] EP 0164552 A2 19851218 - HOECHST AG [DE]

Cited by
EP0337219A3; JPH01311197A; EP0337217A3; JPH0297600A; US5078895A; WO2009080575A3; WO9216608A1

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
EP 0263520 A2 19880413; **EP 0263520 A3 19900328**; DE 3634279 A1 19880811

DOCDB simple family (application)
EP 87114700 A 19871008; DE 3634279 A 19861008