

Title (en)  
WASHING MATERIALS CONTAINING SOFTENING AGENT

Publication  
**EP 0163910 B1 19871014 (DE)**

Application  
**EP 85105004 A 19850425**

Priority  
DE 3416472 A 19840504

Abstract (en)  
[origin: US4589988A] Softener-containing washing agents which, in addition to the customary components of washing agents, contain 0 to 10% by weight of a quaternary ammonium compound and 1 to 30% by weight of a softener system which comprises 10 to 90% by weight of a tertiary amine and 90 to 10% by weight of a crystalline sheet-silicate of the formula  $\text{Me}_2\text{SixO}_{2x+1}\text{x yH}_2\text{O}$  in which Me denotes an alkali metal ion or a proton, x denotes a number greater than 7, in particular from 7.5 to 23, and y denotes a number smaller than 7 x, in particular smaller than x. In the softener system, the tertiary amine is in a state of adsorption on the alkali metal silicate. The ammonium compounds, which are adsorbed on said silicate, produce a softening effect in the washing agent but on the other hand are compatible with anionic surfactants in the washing agent. produce a softening effect in the washing agent but on the other hand are compatible with anionic surfactants in the washing agent.

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IPC 8 full level  
**C11D 1/62** (2006.01); **C11D 1/65** (2006.01); **C11D 3/00** (2006.01); **C11D 3/08** (2006.01); **C11D 3/12** (2006.01); **D06M 11/00** (2006.01); **D06M 11/77** (2006.01); **D06M 11/79** (2006.01); **D06M 13/02** (2006.01); **D06M 13/322** (2006.01); **D06M 13/325** (2006.01); **D06M 13/328** (2006.01); **D06M 13/35** (2006.01); **D06M 13/352** (2006.01); **D06M 13/372** (2006.01); **D06M 13/402** (2006.01); **D06M 13/405** (2006.01); **D06M 13/46** (2006.01); **D06M 13/463** (2006.01); **D06M 23/02** (2006.01); **D06M 23/08** (2006.01)

CPC (source: EP US)  
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Cited by  
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