

Title (en)  
Fabric softener compositions

Title (de)  
Gewebeweichmacherzusammensetzungen

Title (fr)  
Compositions d'adoucissants pour tissus

Publication  
**EP 0394133 B1 19970827 (EN)**

Application  
**EP 90401065 A 19900419**

Priority  
US 34118989 A 19890421

Abstract (en)  
[origin: EP0394133A1] Stable aqueous fabric softening compositions based on water-dispersible cationic fabric softeners such as the di-long chain, di-short chain quaternary ammonium salts are provided using a combination of fatty alcohol and cationic water-soluble polymer to improve the rheological properties to enhance the softening performance. Both concentrated and ready-for-use formulations can be prepared. The active ingredients concentration in the concentrated formula is generally in the range of 11 to 20% by weight while for the ready-for-use formulations, concentration of the active ingredients may range from about 3 to about 8% by weight. In either case, the weight ratio of cationic softening agent to fatty alcohol may range from about 100:1 to about 1:1 and the ratio of cationic softener to cationic water-soluble polymer may range from about 100:1 to 1:1. These compositions have medium viscosity and are easily dispersible. Method for making the compositions are also disclosed.

IPC 1-7  
**C11D 3/37**; **C11D 3/20**

IPC 8 full level  
**C11D 3/00** (2006.01); **C11D 3/20** (2006.01); **C11D 3/37** (2006.01)

CPC (source: EP)  
**C11D 3/0015** (2013.01); **C11D 3/2013** (2013.01); **C11D 3/3773** (2013.01)

Citation (examination)  
• EP 0002085 A2 19790530 - PROCTER & GAMBLE [US]  
• GB-A- 2 207 446

Cited by  
US7135451B2; US6939844B2; AU2003300863B2; US6949500B2; US9090853B2; US8709992B2; WO2011157490A1; WO2012135411A1; WO2004061066A1; WO9920725A1; US6492322B1; US6797688B2; WO9812293A1; WO9424255A1; WO2004061065A1; WO9705220A1; EP0668902B2; EP2173843B2

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0394133 A1 19901024**; **EP 0394133 B1 19970827**; AT E157393 T1 19970915; AU 4264289 A 19901025; AU 634493 B2 19930225; BR 9001856 A 19910618; CA 2014991 A1 19901021; CA 2014991 C 20000808; DE 69031321 D1 19971002; DK 95990 A 19901022; DK 95990 D0 19900418; GR 1000480 B 19920730; GR 900100302 A 19910927; MY 106255 A 19950429; NZ 233281 A 19930225; PT 93810 A 19901120; PT 93810 B 19970228; TR 27517 A 19950607; ZA 902891 B 19911224

DOCDB simple family (application)  
**EP 90401065 A 19900419**; AT 90401065 T 19900419; AU 4264289 A 19891006; BR 9001856 A 19900420; CA 2014991 A 19900420; DE 69031321 T 19900419; DK 95990 A 19900418; GR 900100302 A 19900423; MY PI19900642 A 19900419; NZ 23328190 A 19900410; PT 9381090 A 19900419; TR 48490 A 19900430; ZA 902891 A 19900417