

Title (en)

New softening compositions and methods for making and using same.

Title (de)

Weichspülerzusammensetzungen und Verfahren zu deren Herstellung und Verwendung.

Title (fr)

Compositions adoucissantes et méthodes pour leur fabrication et leur utilisation.

Publication

EP 0354856 A2 19900214 (EN)

Application

EP 89402291 A 19890811

Priority

US 23234688 A 19880812

Abstract (en)

Stable pourable aqueous fabric softening compositions based on quaternary ammonium softeners and siloxanes are provided. The softening component comprises from about 1-20% by weight of the composition. Methods for making the composition are also described. Softening performance is superior to that obtained by using quaternary ammonium compound softeners, alone or with other components absent the siloxane. The softener compositions are primarily intended for use in the rinse cycle of an automatic washing machine.

IPC 1-7

C11D 1/62; **C11D 3/37**

IPC 8 full level

D06M 13/46 (2006.01); **C11D 3/00** (2006.01); **C11D 3/37** (2006.01); **D06M 13/02** (2006.01); **D06M 13/224** (2006.01); **D06M 13/236** (2006.01); **D06M 13/322** (2006.01); **D06M 13/463** (2006.01); **D06M 13/467** (2006.01); **D06M 13/47** (2006.01); **D06M 13/473** (2006.01); **D06M 13/51** (2006.01); **D06M 13/513** (2006.01); **D06M 15/643** (2006.01)

CPC (source: EP)

C11D 3/0015 (2013.01); **C11D 3/373** (2013.01)

Cited by

US5798107A; US5064543A; US5741765A; US5532023A; US5336419A; GB2318364A; US6008183A; GB2318364B; US6265372B1; US7060666B2; WO9633303A1; WO9524460A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0354856 A2 19900214; **EP 0354856 A3 19900502**; AU 3941189 A 19900215; AU 616990 B2 19911114; BR 8904038 A 19900320; DK 395589 A 19900213; DK 395589 D0 19890811; GR 1000488 B 19920730; GR 890100506 A 19900822; JP H02154069 A 19900613; MX 170216 B 19930811; MY 105007 A 19940730; NZ 230238 A 19911025; PH 27205 A 19930504; PT 91429 A 19900308; TR 24991 A 19920821

DOCDB simple family (application)

EP 89402291 A 19890811; AU 3941189 A 19890808; BR 8904038 A 19890810; DK 395589 A 19890811; GR 890100506 A 19890811; JP 21000089 A 19890814; MX 1716189 A 19890810; MY PI19891099 A 19890811; NZ 23023889 A 19890807; PH 39082 A 19890810; PT 9142989 A 19890810; TR 92089 A 19890811