

Title (en)
Liquid detergent compositions containing organo-functional polysiloxanes.

Title (de)
Flüssige, organo-funktionelle Polysiloxane enthaltende Detergenezusammensetzungen.

Title (fr)
Compositions détergentes liquides contenant des polysiloxanes organo-fonctionnels.

Publication
EP 0150872 A1 19850807 (EN)

Application
EP 85200027 A 19850115

Priority
GB 8401875 A 19840125

Abstract (en)
Liquid detergent compositions containing additive levels of organo-functional polysiloxanes are disclosed. The siloxanes are derived from poly-di-short-alkyl siloxanes by substituting part of the alkyl moieties by specific organo-functional groups, preferably amino-groups, with the proviso that the degree of substitution is in the range from 0.01 - 0.07. The liquid compositions herein unexpectedly provide through-the-wash softening benefits comparable to what can be obtained from the utilization of conventional cationic rinse-softeners.

IPC 1-7
C11D 3/16; **C11D 3/37**; **D06M 15/643**

IPC 8 full level
C11D 3/16 (2006.01); **C11D 3/26** (2006.01); **C11D 3/37** (2006.01); **D06M 13/02** (2006.01); **D06M 13/244** (2006.01); **D06M 13/248** (2006.01); **D06M 13/256** (2006.01); **D06M 13/262** (2006.01); **D06M 13/322** (2006.01); **D06M 13/342** (2006.01); **D06M 13/345** (2006.01); **D06M 13/368** (2006.01); **D06M 13/402** (2006.01); **D06M 13/463** (2006.01); **D06M 13/51** (2006.01); **D06M 13/513** (2006.01); **D06M 15/643** (2006.01)

CPC (source: EP)
C11D 3/373 (2013.01); **C11D 3/3742** (2013.01)

Citation (search report)
• [AD] US 4075118 A 19780221 - GAULT TERRELL WILSON, et al
• [AD] US 4247592 A 19810127 - KALINOWSKI ROBERT E
• [AD] DE 2338468 A1 19740214 - PROCTER & GAMBLE EUROP
• [A] FR 2401195 A1 19790323 - GEN ELECTRIC [US]
• [A] EP 0046342 A1 19820224 - PROCTER & GAMBLE [US], et al

Cited by
US6040288A; DE3929757A1; US5026489A; EP0200325A3; EP0426304A1; EP0290164A1; GB2200365A; EP0350604A3; DE4026029A1; US5520827A; EP0224839A3; GB2169916A; CN1297643C; EP1396535A1; WO0125382A1; WO0125383A1; WO0125380A1; WO2004066972A1; WO2004022681A1; EP0778342A1; WO2013029904A1; WO2019110462A1; WO0125381A1; WO9201773A1; WO0125385A1; WO0125384A1; WO2014009473A1; WO2015112671A1; EP3088505A1; WO2016176240A1; WO2018084930A1; WO2012003319A2; WO2013043852A2; WO2015042086A1; WO2015148360A1; WO2018202846A1; EP3950939A2; EP2036481A2; EP0693549A1; WO2011088089A1; WO2015042209A1; WO2016135217A1; EP3878957A1; WO2022090361A2; WO2023116569A1; WO2012009660A2; FR2985273A1; WO2017093318A1; EP3369845A1; US10227548B2; EP3929285A2; US6939843B2; US9062280B2; WO2015112339A1; WO2015158237A1; WO2016184944A1; EP3272850A1; WO2019154951A1; WO2012003367A2; WO2012151480A2; WO2013043857A1; WO2013142486A1; WO2013142495A1; WO2015004102A1; WO2015112338A1; WO2015112341A1; WO2019063499A1; US6566320B1; EP3088504A1; WO2016176296A1; EP3674387A1; WO2021001400A1; WO2021037878A1; US6949503B2; WO2012003316A1; WO2013043805A1; WO2013070559A1; WO2013070560A1; WO2013174603A1; WO2014018309A1; WO2015112340A1; WO2015148361A1; WO2016120291A1; WO2021037895A1; US11332697B2; US6569826B1; US6991747B2; WO2012003300A2; WO2014147127A1; EP2808372A1; WO2014193859A1; EP3088506A1; WO2016176241A1; US10351805B2; EP3699256A1; US6800602B1; US6956020B2; WO2012009525A2; WO2015181119A2; WO2016087401A1; WO2016113376A1; WO2016178668A1; EP3327108A1; EP3760713A2; EP4067485A2; EP2083065A1; EP1749877A1; WO2012151534A1; WO2014184164A1; WO2015171592A1; EP3173467A1; WO2017091674A1; EP3486319A2; EP4230735A1; US7326677B2; WO2013006871A2; WO2013189661A1; WO2015042087A1; WO2015109972A1; WO2016081437A1; WO2016202739A1; WO2018015295A1; WO2021063778A1; EP4112707A1; WO2023278970A1; EP4357453A2; US6815412B1; EP2287214A1; WO2012003351A2; WO2012003360A2; WO2012052349A1; WO2013002786A1; US8568702B2; US8808678B2; WO2015041887A2; WO2015187757A1; EP3339377A1; EP3533908A1; WO2022103725A1; EP4047058A1; US7642225B2; EP1749879A1; US7294611B2; EP2623586A2; WO2013116261A2; WO2014160820A1; WO2014160821A1; EP3088502A1; EP3088503A1; WO2016176280A1; WO2016176282A1; EP3327106A1; EP3521434A1; WO2023118015A1; WO2023247664A2; US7326676B2; US6825163B1; US6958317B2; WO2013149858A1; WO2015192971A1; WO2015192972A1; WO2015192974A1; WO2015192975A1; WO2015193429A1; WO2019154955A1; WO2019154952A1; WO2019154954A1; WO2021063779A1; US11034916B2; US11427789B2; US11427788B2; WO9742282A1; WO2013043803A2; WO2013171241A1; WO2015088826A1; EP3572572A1; US10494767B2; EP3805350A1; US11293144B2; DE112014005598B4; US11624156B2; US11795622B2

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

DOCDB simple family (publication)
EP 0150872 A1 19850807; **EP 0150872 B1 19900411**; **EP 0150872 B2 19930512**; AT E51892 T1 19900415; CA 1232412 A 19880209; DE 3577107 D1 19900517; GB 8401875 D0 19840229; GR 850050 B 19850418; JP H0657839 B2 19940803; JP S60215099 A 19851028; MX 163030 B 19910805

DOCDB simple family (application)
EP 85200027 A 19850115; AT 85200027 T 19850115; CA 472735 A 19850124; DE 3577107 T 19850115; GB 8401875 A 19840125; GR 850100050 A 19850108; JP 1115885 A 19850125; MX 20414685 A 19850125