

Title (en)  
Anti-bacterial liquid dishwashing detergent compositions

Title (de)  
Antibakterielle, flüssige Geschirrspülmittel

Title (fr)  
Compositions liquides antibactériennes pour la vaisselle

Publication  
**EP 0916720 A1 19990519 (EN)**

Application  
**EP 97870184 A 19971117**

Priority  
EP 97870184 A 19971117

Abstract (en)  
Liquid dishwashing compositions are disclosed, which have antibacterial properties. The compositions comprise a surfactant, a hydrotrope, an unsaturated aliphatic terpene alcohol or a derivative thereof, and an amphiphilic polymer having a hydrophobic and a hydrophilic portion.

IPC 1-7  
**C11D 3/00**; **C11D 1/94**; **C11D 3/20**; **C11D 3/34**; **C11D 3/37**; **C11D 3/22**

IPC 8 full level  
**C11D 1/75** (2006.01); **C11D 1/94** (2006.01); **C11D 3/00** (2006.01); **C11D 3/20** (2006.01); **C11D 3/22** (2006.01); **C11D 3/34** (2006.01); **C11D 3/37** (2006.01); **C11D 3/48** (2006.01); **C11D 17/08** (2006.01)

CPC (source: EP)  
**C11D 3/2037** (2013.01); **C11D 3/225** (2013.01); **C11D 3/3726** (2013.01); **C11D 3/3765** (2013.01); **C11D 3/48** (2013.01); **C11D 1/75** (2013.01); **C11D 3/3418** (2013.01)

Citation (search report)

- [X] EP 0049546 A1 19820414 - PROCTER & GAMBLE [US]
- [X] WO 9700609 A1 19970109 - HENKEL CORP [US]
- [A] GB 2103236 A 19830216 - COLGATE PALMOLIVE CO [US]
- [A] EP 0221774 A2 19870513 - PROCTER & GAMBLE [US]
- [A] EP 0222557 A2 19870520 - PROCTER & GAMBLE [US]
- [A] US 4946627 A 19900807 - LEIGHTON JOHN C [US], et al
- [A] WO 9616548 A1 19960606 - ACTION PIN [FR], et al
- [A] WO 9004401 A1 19900503 - UNIV LEHIGH [US]
- [A] WO 9731092 A1 19970828 - PROCTER & GAMBLE [US], et al
- [A] GB 2179054 A 19870225 - UNILEVER PLC
- [A] "HYDROPHOBICALLY MODIFIED POLYCARBOXYLATE POLYMERS AS BACTERIOCIDES IN DETERGENT COMPOSITIONS", RESEARCH DISCLOSURE, no. 330, 1 October 1991 (1991-10-01), pages 823, COMPLETE, XP000265076

Cited by  
US9102902B2; CN103957874A; FR2998571A1; GB2390096A; EA024578B1; US8759277B1; US2014287980A1; US9693941B2; WO2014079598A1; WO2013083393A1; WO2015091109A1; US8759276B2; US9127238B2; US9458416B2; US10773973B2; US11987505B2; US9157049B2; US9765284B2; US10246665B2; US10975331B2; US9029313B2; US9410112B2; US9765285B2; US10100268B2; US10435308B2; US11718540B2

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)  
**EP 0916720 A1 19990519**; AR 017410 A1 20010905; AU 9756998 A 19990607; EP 1032630 A1 20000906; JP 2001523755 A 20011127; WO 9925800 A1 19990527

DOCDB simple family (application)  
**EP 97870184 A 19971117**; AR P980105831 A 19981117; AU 9756998 A 19981113; EP 98951621 A 19981113; IB 9801805 W 19981113; JP 2000521169 A 19981113