

Title (en)  
CATIONIC DETERGENT COMPOUNDS

Title (de)  
KATIONISCHE WASCHMITTEL

Title (fr)  
COMPOSES DETERGENTS CATIONIQUES

Publication  
**EP 1021501 A4 20040506 (EN)**

Application  
**EP 97908765 A 19970226**

Priority  
• GB 9604628 A 19960305  
• US 9703111 W 19970226

Abstract (en)  
[origin: CA2247829A1] There is provided a cationic ester surfactant comprising at least one ester linkage and at least one cationically charged group characterized in that said cationically charged group is an ammonium group substituted by at least one hydroxyalkyl group. Surfactant systems and detergent compositions suitable for use in laundry and dishwashing methods containing the cationic ester surfactants are also provided.

IPC 1-7  
**C07C 219/06**; C11D 1/62; C11D 1/86; C11D 3/02; C11D 1/65

IPC 8 full level  
**C07C 219/06** (2006.01); **C11D 1/62** (2006.01); **C11D 1/86** (2006.01); **C11D 3/02** (2006.01); **C11D 1/14** (2006.01); **C11D 1/72** (2006.01)

CPC (source: EP)  
**C07C 219/06** (2013.01); **C11D 1/62** (2013.01); **C11D 1/86** (2013.01); **C11D 3/044** (2013.01); **C11D 1/146** (2013.01); **C11D 1/72** (2013.01)

Citation (search report)  
• [PLX] GB 2303144 A 19970212 - PROCTER & GAMBLE [US]  
• [X] FR 2248318 A1 19750516 - NIPPON OILS & FATS CO LTD [JP]  
• [DA] US 4228042 A 19801014 - LETTON JAMES C  
• [X] DE 4334365 A1 19950413 - HENKEL KGAA [DE], et al  
• [X] DE 4402527 A1 19950803 - HENKEL KGAA [DE]  
• See references of WO 9732955A1

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)  
**GB 2310851 A 19970910**; **GB 9604628 D0 19960501**; AR 006113 A1 19990811; BR 9707924 A 19990727; CA 2247829 A1 19970912; CN 1217741 A 19990526; EP 1021501 A1 20000726; EP 1021501 A4 20040506; JP H11506160 A 19990602; WO 9732955 A1 19970912

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**GB 9604628 A 19960305**; AR P970100881 A 19970305; BR 9707924 A 19970226; CA 2247829 A 19970226; CN 97194382 A 19970226; EP 97908765 A 19970226; JP 53183697 A 19970226; US 9703111 W 19970226