

Title (en)
Use of polymers in laundry cleaning

Title (de)
Verwendung von Polymeren in der Wäschereinigung

Title (fr)
Utilisation de polymères dans le nettoyage du linge

Publication
EP 1146110 A3 20020626 (EN)

Application
EP 01303102 A 20010330

Priority
GB 0009059 A 20000412

Abstract (en)
[origin: EP1146110A2] A detergency enhancing polymer is used in a laundry cleaning operation to improve removal of oily and/or greasy soil from cotton fabrics. This polymer is a homopolymer or copolymer containing one or more monomer units independently selected from those of formula (I) <CHEM> wherein -A- is selected from groups of formula -R<5>- , -R<5>-(CO)-R<6>- , -R<5>-(CO)-O-R<6>- , -R<5>-O-(CO)-R<6>- , -R<5>-(CO)-NH-R<6>- , -R<5>-NH-(CO)-R<6>- , wherein R<5> and R<6> are independently absent, or represent C1-3 alkyl groups; R<1> , R<2> and R<3> are independently selected from hydrogen, C1-3 alkyl, C1-3 alkenyl, hydroxy-C1-3 alkyl and C5-8 cycloalkyl groups; and R<4> is selected from groups as defined for A above; wherein R<3> may also represent a bridge, group with the group R<4> , said bridging group being selected from groups as defined for A above; and X - is a monovalent anion or an n'th part of an n-valent anion.

IPC 1-7
C11D 3/37; **C11D 1/02**; **C11D 1/83**

IPC 8 full level
C11D 1/02 (2006.01); **C11D 1/83** (2006.01); **C11D 3/37** (2006.01)

CPC (source: EP)
C11D 1/02 (2013.01); **C11D 1/83** (2013.01); **C11D 3/3769** (2013.01); **C11D 3/3773** (2013.01)

Citation (search report)
• [E] WO 0179408 A1 20011025 - UNILEVER PLC [GB], et al
• [E] WO 0179407 A1 20011025 - UNILEVER PLC [GB], et al
• [XA] GB 2164657 A 19860326 - COLGATE PALMOLIVE CO

Cited by
EP1191094A3; EP1188817A3; US8728172B2; US8193141B2; US8372795B2

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

DOCDB simple family (publication)
EP 1146110 A2 20011017; **EP 1146110 A3 20020626**; **EP 1146110 B1 20051123**; AT E310795 T1 20051215; DE 60115130 D1 20051229; DE 60115130 T2 20060706; ES 2252157 T3 20060516; GB 0009059 D0 20000531

DOCDB simple family (application)
EP 01303102 A 20010330; AT 01303102 T 20010330; DE 60115130 T 20010330; ES 01303102 T 20010330; GB 0009059 A 20000412