

Title (en)

POLYOXYALKYLENE SURFACTANTS

Title (de)

TENSIDEN MIT POLYOXYALKYLENGRUPPEN

Title (fr)

TENSIOACTIFS DE POLYOXYALKYLENE

Publication

EP 0944699 A2 19990929 (EN)

Application

EP 97948391 A 19971119

Priority

- US 9721160 W 19971119
- US 3191796 P 19961126

Abstract (en)

[origin: WO9823712A2] Mid-chain branched primary alkyl polyoxyalkylene surfactants useful in laundry and cleaning compositions, especially granular and liquid detergent compositions. These surfactants are also suitable for formulation with other surfactants for the purpose of providing improved surfactant systems, especially for use in detergent compositions which will be used in laundry processes involving low water temperature wash conditions. The present invention also relates to novel mid-chain branched primary alkyl polyoxyalkylene surfactants suitable for use in the surfactant mixtures.

IPC 1-7

C11D 1/72; C11D 1/722; C11D 3/37

IPC 8 full level

C11D 1/72 (2006.01); **C11D 1/722** (2006.01); **C11D 3/16** (2006.01)

CPC (source: EP)

C11D 1/72 (2013.01); **C11D 1/722** (2013.01)

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)

WO 9823712 A2 19980604; WO 9823712 A3 19980723; AR 011769 A1 20000913; BR 9713301 A 20000321; CA 2272139 A1 19980604; CA 2272139 C 20021217; CN 100457880 C 20090204; CN 1120226 C 20030903; CN 1244892 A 20000216; CN 1441042 A 20030910; CZ 186899 A3 20000412; CZ 302716 B6 20110921; EP 0944699 A2 19990929; HU P0001842 A2 20000928; HU P0001842 A3 20010228; JP 2001506679 A 20010522; JP 2007016246 A 20070125; JP 4364308 B2 20091118; MA 24408 A1 19980701; TR 199901159 T2 19990823

DOCDB simple family (application)

US 9721160 W 19971119; AR P970105555 A 19971126; BR 9713301 A 19971119; CA 2272139 A 19971119; CN 02147508 A 19971119; CN 97181417 A 19971119; CZ 186899 A 19971119; EP 97948391 A 19971119; HU P0001842 A 19971119; JP 2006243135 A 20060907; JP 52472898 A 19971119; MA 24875 A 19971125; TR 9901159 T 19971119