

Title (en)

LIQUID LAUNDRY DETERGENTS CONTAINING SELECTED ALKYL AMIDOALKOYL QUATERNARY AMMONIUM COMPOUNDS

Title (de)

QUARTÄRE ALKYLAMIDOALKOYLAMMONIUMVERBINDUNGEN ENTHALTENDE FLÜSSIGE WASCHMITTEL

Title (fr)

DETERGENTS LIQUIDES POUR LESSIVE, CONTENANT DES COMPOSES D'AMMONIUM QUATERNAIRES AMIDOALCOYLE ALKYLE SELECTIONNES

Publication

**EP 0876453 A1 19981111 (EN)**

Application

**EP 96936038 A 19960927**

Priority

- US 9615578 W 19960927
- US 454695 P 19950929

Abstract (en)

[origin: WO9712020A1] This invention relates to a liquid laundry detergent composition comprising a Nil-LAS surfactant system said surfactant system comprising: i) anionic surfactants selected from the group of alkyl alkoxy sulfates and alkyl sulfates, and ii) a quaternary ammonium surfactant having formula (I), whereby R<sub>1</sub> is a C<sub>6</sub>-C<sub>18</sub> alkyl; y is from 1 to 6; R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> are either the same or different and can be H, a C<sub>1</sub>-C<sub>8</sub> alkyl, C<sub>1</sub>-C<sub>8</sub> alkoxy, aryl, alkaryl or alkoxyaryl; X is a counterion.

IPC 1-7

**C11D 1/65; C11D 1/86**

IPC 8 full level

**C11D 1/65** (2006.01); **C11D 1/86** (2006.01); **C11D 17/00** (2006.01); **C11D 1/14** (2006.01); **C11D 1/29** (2006.01); **C11D 1/52** (2006.01); **C11D 1/62** (2006.01); **C11D 1/72** (2006.01); **C11D 1/75** (2006.01)

CPC (source: EP)

**C11D 1/65** (2013.01); **C11D 1/86** (2013.01); **C11D 1/146** (2013.01); **C11D 1/29** (2013.01); **C11D 1/525** (2013.01); **C11D 1/62** (2013.01); **C11D 1/72** (2013.01); **C11D 1/75** (2013.01)

Citation (search report)

See references of WO 9712020A1

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 9712020 A1 19970403**; BR 9610672 A 19990706; CA 2233332 A1 19970403; CA 2233332 C 20020101; EP 0876453 A1 19981111; JP H11512769 A 19991102

DOCDB simple family (application)

**US 9615578 W 19960927**; BR 9610672 A 19960927; CA 2233332 A 19960927; EP 96936038 A 19960927; JP 51371297 A 19960927