

Title (en)

Detergent compositions comprising cationic surfactant and process for making the composition

Title (de)

Kationisches Tensid enthaltende Waschmittelzusammensetzungen sowie deren Herstellungsverfahren

Title (fr)

Compositions détergentes contenant un agent tensioactif cationique et procédé pour leur fabrication

Publication

EP 0714976 A1 19960605 (EN)

Application

EP 94308960 A 19941202

Priority

EP 94308960 A 19941202

Abstract (en)

The present invention concerns a granular detergent composition or composition comprising anionic surfactant, at least 20% by weight of water-soluble cationic surfactant, and less than 10% by weight of anionic polymer wherein the molar ratio of anionic surfactant to cationic surfactant is less than 1:1, preferably less than 0.5:1. Another aspect of the present invention is a process for making the composition or component comprising the steps of (i) mixing an aqueous solution comprising water-soluble cationic surfactant, anionic surfactant, and less than 10% by weight of anionic polymer (ii) drying the mixture to form a concentrated solution having a solids level of at least 50% by weight, and (iii) granulating the concentrated solution; wherein the cationic surfactant is at a level of at least 20% by weight of the composition or component and the molar ratio of anionic surfactant to cationic surfactant is less than 1:1.

IPC 1-7

C11D 1/65; C11D 10/04; C11D 11/02; C11D 11/00

IPC 8 full level

C11D 1/65 (2006.01); **C11D 10/04** (2006.01); **C11D 11/00** (2006.01); **C11D 11/02** (2006.01); **C11D 17/06** (2006.01); **C11D 1/14** (2006.01);
C11D 1/29 (2006.01); **C11D 1/62** (2006.01)

CPC (source: EP)

C11D 1/65 (2013.01); **C11D 10/047** (2013.01); **C11D 11/0082** (2013.01); **C11D 11/02** (2013.01); **C11D 1/14** (2013.01); **C11D 1/29** (2013.01);
C11D 1/62 (2013.01)

Citation (search report)

- [X] DE 2449354 A1 19760429 - BASF AG
- [X] EP 0547722 A1 19930623 - COLGATE PALMOLIVE CO [US]
- [X] EP 0234717 A1 19870902 - PROCTER & GAMBLE [US]
- [A] GB 2168995 A 19860702 - COLGATE PALMOLIVE CO
- [X] CHEMICAL ABSTRACTS, vol. 98, no. 14, 4 April 1983, Columbus, Ohio, US; abstract no. 109309, page 109; & JP S57137397 A 19820824 - KAO CORP

Cited by

EP0971030A1; WO2005100533A1; WO0002995A1; EP1274827B2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

EP 0714976 A1 19960605; EP 0714976 B1 20000517; EP 0714976 B2 20050323; AT E193051 T1 20000615; AU 4371496 A 19960619;
BR 9509843 A 19971125; CA 2206326 A1 19960606; CN 1174566 A 19980225; DE 69424551 D1 20000621; DE 69424551 T2 20010118;
DE 69424551 T3 20051229; JP H10511713 A 19981110; MA 23734 A1 19960701; MX 9704078 A 19970830; TR 199501509 A2 19960721;
WO 9617042 A1 19960606; ZA 9510227 B 19960612

DOCDB simple family (application)

EP 94308960 A 19941202; AT 94308960 T 19941202; AU 4371496 A 19951130; BR 9509843 A 19951130; CA 2206326 A 19951130;
CN 95197503 A 19951130; DE 69424551 T 19941202; JP 51904696 A 19951130; MA 24083 A 19951201; MX 9704078 A 19951130;
TR 9501509 A 19951129; US 9515548 W 19951130; ZA 9510227 A 19951201