

Title (en)

Detergent compositions and process for preparing them.

Title (de)

Waschmittelzusammensetzungen und Verfahren zu deren Herstellung.

Title (fr)

Compositions détergentes et leur procédé de préparation.

Publication

EP 0544365 A1 19930602 (EN)

Application

EP 92203563 A 19921119

Priority

GB 9125035 A 19911126

Abstract (en)

A process is provided for the preparation of a granular detergent composition having a bulk density of at least 650 g/l, which comprises treating a particulate starting material in a high speed mixer/densifier, characterised in that 0.1 to 50% by weight as calculated on the granular detergent composition of a liquid surfactant composition is mixed with the starting material during this treating process, said surfactant composition comprising (a) a sodium or potassium salt of an alkyl sulphate in an amount from 5 to 40% by weight; (b) an alkoxylated nonionic surfactant in an amount from 60 to 95% by weight, (c) the balance being water in an amount from 0 to less than 20% by weight. e

IPC 1-7

C11D 1/83; C11D 11/00; C11D 17/06

IPC 8 full level

C11D 1/83 (2006.01); **C11D 3/12** (2006.01); **C11D 3/39** (2006.01); **C11D 3/395** (2006.01); **C11D 11/00** (2006.01); **C11D 17/06** (2006.01); **D06L 3/02** (2006.01); **C11D 1/14** (2006.01); **C11D 1/72** (2006.01)

CPC (source: EP KR US)

C11D 1/83 (2013.01 - EP); **C11D 3/1253** (2013.01 - EP US); **C11D 3/128** (2013.01 - EP); **C11D 3/3905** (2013.01 - EP US); **C11D 3/3942** (2013.01 - EP); **C11D 3/395** (2013.01 - KR); **C11D 11/0082** (2013.01 - EP); **C11D 17/065** (2013.01 - EP); **C11D 1/146** (2013.01 - EP); **C11D 1/72** (2013.01 - EP)

Citation (search report)

- [A] EP 0451894 A1 19911016 - UNILEVER NV [NL], et al
- [A] EP 0420317 A1 19910403 - UNILEVER NV [NL], et al
- [A] EP 0425277 A2 19910502 - UNILEVER PLC [GB], et al
- [A] EP 0390251 A2 19901003 - UNILEVER NV [NL], et al

Cited by

EP0643130A1; AU701791B2; CN1110542C; EP0665288A1; US5539139A; US5857269A; GB2294056A; US5736501A; GB2294056B; US5945395A; DE19529298C5; US6911423B2; US7446085B2; EP1832648A1; US6900170B2; AU702278B2; US5929021A; US6077820A; EA000766B1; AU721831B2; US5990073A; CN1116401C; EA000238B1; EA001453B1; WO9610071A1; WO9619556A1; GB2283756A; FR2712298A1; NL9401844A; BE1009038A5; ES2097700A1; GB2283756B; EP0639639B1; WO9722685A1; WO9824876A1; WO9702338A1

Designated contracting state (EPC)

CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0544365 A1 19930602; EP 0544365 B1 19950628; AU 2854792 A 19930527; BR 9204571 A 19930601; CA 2083332 A1 19930527; CA 2083332 C 19981006; DE 69203217 D1 19950803; DE 69203217 T2 19951130; ES 2075600 T3 19951001; GB 9125035 D0 19920122; GB 9201059 D0 19920311; IN 177135 B 19961116; JP 2837325 B2 19981216; JP H0617098 A 19940125; KR 930010168 A 19930622; KR 930010174 A 19930622; KR 930016530 A 19930826; KR 930016531 A 19930826; KR 950013924 B1 19951118; KR 960001018 B1 19960117; KR 960001019 B1 19960117; KR 960001021 B1 19960117; MY 108256 A 19960830; SA 93130524 B1 20040814; SA 93130528 B1 20050612; SA 93130598 B1 20051123; TW 232704 B 19941021; TW 254966 B 19950821; ZA 929184 B 19940526; ZA 929185 B 19940526

DOCDB simple family (application)

EP 92203563 A 19921119; AU 2854792 A 19921120; BR 9204571 A 19921126; CA 2083332 A 19921119; DE 69203217 T 19921119; ES 92203563 T 19921119; GB 9125035 A 19911126; GB 9201059 A 19920117; IN 376BO1992 A 19921126; JP 31709492 A 19921126; KR 920022273 A 19921125; KR 920022274 A 19921125; KR 930000453 A 19930115; KR 930000454 A 19930115; MY PI19922140 A 19921124; SA 93130524 A 19930512; SA 93130528 A 19930512; SA 93130598 A 19930620; TW 82100228 A 19930115; TW 82100233 A 19930115; ZA 929184 A 19921126; ZA 929185 A 19921126