

Title (en)

SINGLE OR MULTI-PHASE DETERGENT FORMS WITH SPECIAL BLEACH ACTIVATORS

Title (de)

EIN- ODER MEHRPHASIGE WASCH- UND REINIGUNGSMITTELFORMKÖRPER MIT SPEZIELLEN BLEICHAKTIVATOREN

Title (fr)

CORPS MOULES D'AGENTS DE LAVAGE ET DE NETTOYAGE MONOPHASES OU MULTIPHASES COMPORTANT DES ACTIVATEURS DE BLANCHIMENT SPECIAUX

Publication

EP 1165742 B1 20060125 (DE)

Application

EP 00916991 A 20000322

Priority

- DE 19914812 A 19990331
- EP 0002533 W 20000322

Abstract (en)

[origin: DE19914812A1] Single- or multi-phase detergent tablets consisting of compressed particulate detergent ingredients, including a bleaching agent and bleach activator(s), contain, or have at least one phase containing, a cyanomethyl ammonium salt (I) as bleach activator, provided that a 1% aqueous solution of the (I)-containing tablet or phase has a pH below 10. Single- or multi-phase detergent tablets consisting of compressed particulate detergent ingredients, including a bleaching agent and bleach activator(s), contain, or have at least one phase containing, a cyanomethyl ammonium salt of formula (I) as bleach activator, provided that a 1% aqueous solution of the (I)-containing tablet or phase has a pH below 10: R<1> = H; Me; 2-24C alkyl or alkenyl optionally substituted by Cl, Br, OH, NH₂ and/or CN; or optionally ring-substituted alkyl- or alkenylaryl with a 1-24C alkyl group (sic); R<2>, R<3> = cyanomethyl, 1-3C alkyl, hydroxymethyl, 1- or 2-hydroxyethyl, 1-, 2- or 3-hydroxypropyl or (CH₂CH₂O)_nH; n = 1-6; X<-> = an anion.

IPC 8 full level

C11D 3/30 (2006.01); **C11D 17/00** (2006.01); **C11D 3/26** (2006.01); **C11D 3/32** (2006.01); **C11D 3/37** (2006.01); **C11D 3/386** (2006.01); **C11D 3/39** (2006.01); **C11D 3/395** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP KR)

C11D 3/386 (2013.01 - KR); **C11D 3/3925** (2013.01 - EP KR); **C11D 17/0086** (2013.01 - EP KR); **C11D 17/0091** (2013.01 - EP); **C11D 1/83** (2013.01 - KR); **C11D 3/0021** (2013.01 - KR); **C11D 3/40** (2013.01 - KR); **C11D 3/50** (2013.01 - KR)

Cited by

US9783766B2; US10557106B2; US10280386B2; US11053459B2; US11731889B2; US10870818B2; US11193093B2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

DE 19914812 A1 20001005; AU 3814200 A 20001023; CA 2303638 A1 20000930; DE 50012128 D1 20060413; EP 1165742 A2 20020102; EP 1165742 B1 20060125; ES 2255995 T3 20060716; JP 2002541302 A 20021203; KR 20010110469 A 20011213; WO 0060035 A2 20001012; WO 0060035 A3 20010104

DOCDB simple family (application)

DE 19914812 A 19990331; AU 3814200 A 20000322; CA 2303638 A 20000331; DE 50012128 T 20000322; EP 0002533 W 20000322; EP 00916991 A 20000322; ES 00916991 T 20000322; JP 2000609527 A 20000322; KR 20017012454 A 20010928