

Title (en)

Detergent additive with a high nonionic surfactant content and good dissolution properties

Title (de)

Waschmittelzusatz mit hohem Gehalt an nichtionischen Tensiden und schnellem Auflösungsvermögen

Title (fr)

Additif pour detergents a teneur elevee en tensioactifs non ioniques et solubilite rapide

Publication

**EP 1347037 A1 20030924 (DE)**

Application

**EP 03006115 A 20030318**

Priority

DE 10212169 A 20020319

Abstract (en)

A granular detergent additive free of dispersing aids or structure-formers such as soaps contains (A) a solid silicate carrier; (B) nonionic surfactant(s) (more than 30 wt.%); and (C) an anionic surfactant. Independent claims are also included for: (i) production of the additive by loading the carrier (A) with a mixture of (B) and (C) during agglomeration in an intensive mixer; and (ii) use of an anionic surfactant (C) in acid (i.e. protonated) form in improving the solubility of a granular additive containing (A) and (B).

Abstract (de)

Beschrieben wird ein Waschmittelzusatz in Granulatform, der mindestens einen festen silicatischen Träger, mehr als etwa 30 Gew.-% nichtionische(s) Tensid(e) und mindestens ein anionisches Tensid enthält, wobei der Waschmittelzusatz keine Dispergierhilfsmittel oder Strukturbildner, wie Seife, enthält.

IPC 1-7

**C11D 1/83**; **C11D 3/12**; **C11D 17/00**; **C11D 11/00**

IPC 8 full level

**C11D 1/83** (2006.01); **C11D 3/12** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01); **C11D 1/14** (2006.01); **C11D 1/22** (2006.01); **C11D 1/29** (2006.01); **C11D 1/72** (2006.01)

CPC (source: EP)

**C11D 1/83** (2013.01); **C11D 3/124** (2013.01); **C11D 3/126** (2013.01); **C11D 3/1273** (2013.01); **C11D 3/128** (2013.01); **C11D 11/0088** (2013.01); **C11D 17/0034** (2013.01); **C11D 1/143** (2013.01); **C11D 1/146** (2013.01); **C11D 1/22** (2013.01); **C11D 1/29** (2013.01); **C11D 1/72** (2013.01)

Citation (applicant)

DE 19822942 A1 19991125 - HENKEL KGAA [DE]

Citation (search report)

- [X] WO 9703165 A1 19970130 - HENKEL KGAA [DE], et al
- [X] WO 0146375 A1 20010628 - HENKEL KGAA [DE]
- [X] DE 19944221 A1 20010329 - COGNIS DEUTSCHLAND GMBH [DE]
- [X] DE 4216775 A1 19931125 - HENKEL KGAA [DE]
- [X] DE 19601841 A1 19970724 - HENKEL KGAA [DE]
- [DX] DE 19757216 A1 19990624 - HENKEL KGAA [DE]
- [Y] US 5736501 A 19980407 - YAMASHITA HIROYUKI [JP], et al
- [Y] WO 9717422 A1 19970515 - KAO CORP [JP], et al

Cited by

EP1518923A1; GB2569938A; GB2569938B; US7208458B2; WO2017215260A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1347037 A1 20030924**; **EP 1347037 B1 20100818**; AT E478130 T1 20100915; DE 10212169 A1 20031002; DE 50312986 D1 20100930; ES 2350092 T3 20110118

DOCDB simple family (application)

**EP 03006115 A 20030318**; AT 03006115 T 20030318; DE 10212169 A 20020319; DE 50312986 T 20030318; ES 03006115 T 20030318