

Title (en)
HIGH-DENSITY GRANULATED DETERGENT COMPOSITION

Title (de)
GRANULIERTE WASCHMITTELZUSAMMENSETZUNG MIT HOHEM SCHÜTTGEWICHT

Title (fr)
COMPOSITION DE DETERGENT GRANULEE HAUTE DENSITE

Publication
EP 0885953 A4 19990825 (EN)

Application
EP 97900465 A 19970121

Priority

- JP 9700111 W 19970121
- JP 856096 A 19960122
- JP 3378896 A 19960221

Abstract (en)
[origin: WO9727282A1] A high-density granulated detergent composition having a bulk density of 0.6 to 1.2 g/ml, which comprises 0.5 to 30 wt.% of an aspartic acid-N,N-diacetic acid salt (a), 20 to 50 wt.% of an anionic surfactant (b) and 1 to 30 wt.% of an aluminosilicate (d), each percentage being based on the total weight of the composition, and which further contains a nonionic surfactant (c) having an HLB value of 10.5 to 15.0 in an amount of 0.5 to 25 parts by weight per 100 parts by weight of the component (b). This composition contains an organic builder excellent in biodegradability together with an inorganic builder and exhibits high detergency.

IPC 1-7
C11D 17/06; **C11D 3/33**; **C11D 3/37**; **C11D 10/02**

IPC 8 full level
C11D 1/68 (2006.01); **C11D 1/72** (2006.01); **C11D 1/74** (2006.01); **C11D 3/12** (2006.01); **C11D 3/33** (2006.01); **C11D 3/37** (2006.01); **C11D 10/02** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP)
C11D 3/124 (2013.01); **C11D 3/1273** (2013.01); **C11D 3/128** (2013.01); **C11D 3/33** (2013.01); **C11D 17/065** (2013.01)

Citation (search report)

- [A] EP 0509382 A2 19921021 - GRACE W R & CO [US]
- [A] WO 9429421 A1 19941222 - BASF AG [DE], et al
- [A] DE 3739610 A1 19890601 - BASF AG [DE]
- [A] DATABASE WPI Section Ch Week 9316, Derwent World Patents Index; Class D25, AN 93-131475, XP002106828 & CHEMICAL ABSTRACTS, vol. 119, no. 18, 1 November 1993, Columbus, Ohio, US; abstract no. 183398, XP002106915
- See references of WO 9727282A1

Cited by
EP0999264A4; EP1803801A1; US7867966B2; WO2007077143A1

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DE FR GB

DOCDB simple family (publication)
WO 9727282 A1 19970731; DE 69709067 D1 20020124; DE 69709067 T2 20020822; EP 0885953 A1 19981223; EP 0885953 A4 19990825; EP 0885953 B1 20011212; JP 3221830 B2 20011022; JP H09263797 A 19971007

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