

Title (en)

DETERGENT ADDITIVE GRANULATE AND METHOD FOR PRODUCTION THEREOF

Publication

EP 0458845 B1 19921223 (EN)

Application

EP 90903319 A 19900216

Priority

DK 78089 A 19890220

Abstract (en)

[origin: WO9009428A1] The detergent additive granulate comprises a core with a primary detergent additive surrounded by a shell comprising a secondary detergent additive, a binder, and granulating agents, and optionally a filler, and a protective coating between the core and the shell, whereby the shell comprises cellulose fibres or artificial fibres, and whereby the core facultatively comprises cellulose fibres or artificial fibres. The detergent additive granulate exhibits a high physical strength, and the primary and secondary detergent additives are effectively separated from each other and/or from harmful environmental factors. The detergent additive granulate is produced by introduction of the components thereof into a granulating drum. This method of production is easily controllable and adapted for an industrial scale.

IPC 1-7

C11D 3/386

IPC 8 full level

C11D 3/386 (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP)

C11D 3/38672 (2013.01); **C11D 17/0039** (2013.01)

Cited by

WO2008017661A1; WO2007098756A1; WO2017102477A1; WO2004033083A2; WO03080827A2; WO2009118329A1; WO02061427A1; US10557108B2; EP2537918A1; WO2013003025A1; EP3072399A1; US10704037B2; US11266607B2; WO2020053238A1; WO2004067739A2; WO2011098579A1; WO2011000924A1; US10072256B2; WO2022074166A1; EP2143338A1; EP2143339A1; EP2160950A1; DE202005021811U1; DE202005021810U1; EP2258209A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 9009428 A1 19900823; AT E83797 T1 19930115; DE 69000662 D1 19930204; DE 69000662 T2 19930422; DK 0458845 T3 19930329; DK 78089 D0 19890220; EP 0458845 A1 19911204; EP 0458845 B1 19921223; ES 2036904 T3 19930601; JP 2801395 B2 19980921; JP H04503369 A 19920618

DOCDB simple family (application)

DK 9000043 W 19900216; AT 90903319 T 19900216; DE 69000662 T 19900216; DK 78089 A 19890220; DK 90903319 T 19900216; EP 90903319 A 19900216; ES 90903319 T 19900216; JP 50346090 A 19900216