

Title (en)

Process for making granules containing cationic surfactant

Title (de)

Verfahren zur Herstellung kationensidhaltiger Granulate

Title (fr)

Procédé de préparation de granules contenant un tensioactif cationique

Publication

EP 0881279 A3 19990616 (DE)

Application

EP 98108983 A 19980518

Priority

DE 19721885 A 19970526

Abstract (en)

[origin: EP0881279A2] A solid granulate is claimed which contains (A) 50-40 wt.% cationic, textile-softening agent of formula (I), (II) and/or (III), where R<1> = 1-6C alkyl, alkenyl or hydroxyalkyl; R<2> = 8-28C alkyl or alkenyl; R<3> = as for R<1> or -(CH₂)_n-T-R<2>; R<4> = as for R<1> or R<2>, or -(CH₂)_n-T-R<2>; T = -CH₂-, -O-CO- or -CO-O-; and n = 0-5; (B) 50-90 wt.% solid carrier comprising an alkali metal-sulphate, -carbonate, -silicate, -citrate or -aluminium silicate or citric acid; and (C) 0-5 wt.% granulating auxiliaries. Also claimed is production of the granulate by low energy impacting of a solid carrier with a cationic surfactant in a mixer, followed by high energy granulation in the presence of water or an aqueous solution of a granulating auxiliary.

IPC 1-7

C11D 1/62

IPC 8 full level

C11D 1/62 (2006.01); **C11D 17/00** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP)

C11D 1/62 (2013.01); **C11D 17/0034** (2013.01); **C11D 17/06** (2013.01)

Citation (search report)

- [X] EP 0151936 A2 19850821 - REWO CHEMISCHE WERKE GMBH [DE] & DE 3402437 A1 19850725 - REWO CHEMISCHE WERKE GMBH [DE]
- [A] EP 0111074 A2 19840620 - DEGUSSA [DE] & DE 3243983 A1 19840530 - DEGUSSA [DE]
- [A] EP 0163910 A1 19851211 - HOECHST AG [DE]
- [A] EP 0523287 A1 19930120 - PROCTER & GAMBLE [US]
- [A] EP 0175287 A2 19860326 - HOECHST AG [DE]

Cited by

EP1502942A1; CN1306015C; EP3645693A4; US6916779B2; US6989361B2; US11441106B2; WO03083027A1; WO03083025A1; WO2023046690A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0881279 A2 19981202; EP 0881279 A3 19990616; EP 0881279 B1 20030102; EP 0881279 B2 20070418; AT E230431 T1 20030115; DE 19721885 A1 19981203; DE 59806786 D1 20030206; ES 2189034 T3 20030701; ES 2189034 T5 20071116

DOCDB simple family (application)

EP 98108983 A 19980518; AT 98108983 T 19980518; DE 19721885 A 19970526; DE 59806786 T 19980518; ES 98108983 T 19980518