

Title (en)

FORMSTABLE ALKALINE DETERGENT WITH LOW SPECIFIC WEIGHT AND A PROCESS FOR ITS PRODUCTION

Publication

EP 0297273 B1 19911218 (DE)

Application

EP 88108212 A 19880521

Priority

DE 3721461 A 19870630

Abstract (en)

[origin: EP0297273A1] The cleaning agents consist of at least 2 to 50 % by weight of alkali metal phosphates, 2 to 50 % by weight of silicates, 1 to 60 % by weight of alkali metal hydroxides and/or alkali metal carbonates or bicarbonates and additionally contain 0.25 to 10 % by weight of phosphoric acid partial esters. <??>These cleaning agents are produced by initially preparing a foam of the phosphoric acid partial esters with water in the ratio of from 1 : 2 to 1 : 80 by weight, stirring vigorously. After the other components have been incorporated by stirring or kneading into the foam, the resulting mixture is converted into shaped articles which are left to set for 0.5 to 15 hours.

IPC 1-7

C11D 1/78; **C11D 3/36**; **C11D 17/00**

IPC 8 full level

C11D 1/78 (2006.01); **C11D 3/06** (2006.01); **C11D 3/10** (2006.01); **C11D 3/36** (2006.01); **C11D 7/36** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP US)

C11D 1/78 (2013.01 - EP US); **C11D 3/06** (2013.01 - EP US); **C11D 3/10** (2013.01 - EP US); **C11D 3/362** (2013.01 - EP US); **C11D 17/0052** (2013.01 - EP US); **C11D 17/0073** (2013.01 - EP US)

Cited by

EP0711826A3; AU700879B2; EP0711826A2; WO9629387A1; WO9718292A1; WO9718291A1

Designated contracting state (EPC)

AT BE CH DE FR GB LI NL

DOCDB simple family (publication)

EP 0297273 A1 19890104; **EP 0297273 B1 19911218**; AT E70559 T1 19920115; DE 3721461 A1 19890112; DE 3866971 D1 19920130; JP S6424899 A 19890126; US 4915865 A 19900410

DOCDB simple family (application)

EP 88108212 A 19880521; AT 88108212 T 19880521; DE 3721461 A 19870630; DE 3866971 T 19880521; JP 15513388 A 19880624; US 20745488 A 19880616