

Title (en)  
METHOD OF PRODUCING AN AMORPHOUS ALKALI SILICATE FOLLOWED BY IMPREGNATION

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES AMORPHEN ALKALISILIKATS MIT IMPRÄGNIERUNG

Title (fr)  
PROCEDE DE PRODUCTION D'UN SILICATE ALCALIN AMORPHE SOUMIS A UNE IMPREGNATION

Publication  
**EP 0845028 B1 20000105 (DE)**

Application  
**EP 96928415 A 19960806**

Priority  
• DE 19529908 A 19950815  
• EP 9603466 W 19960806

Abstract (en)  
[origin: DE19529908A1] The object of the invention is to produce spray-dried amorphous silicates and impregnate them with detergent and cleaning agent constituents which are liquid to waxy in conventional processing conditions, without substantially impairing pourability. This object is achieved in that: a) an aqueous preparation substantially containing as active substance an amorphous alkali silicate, having an M2O : SiO2 (M = alkali metal) molar composition of between 1:1.5 and 1:3.3, is spray-dried and subsequently; b) impregnated with an aqueous dispersion of washing and cleaning agent constituents, one constituent of this dispersion being an organic co-builder; and c) is optionally dried.

IPC 1-7  
**C11D 17/00**; **C11D 11/00**; **C11D 3/08**

IPC 8 full level  
**C11D 3/08** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01); **C01B 33/32** (2006.01)

CPC (source: EP KR)  
**C11D 3/08** (2013.01 - EP); **C11D 17/00** (2013.01 - KR)

Cited by  
US7226899B2; EP0859827B2

Designated contracting state (EPC)  
AT BE DE ES FR GB IT NL

DOCDB simple family (publication)  
**WO 9707194 A1 19970227**; AT E188505 T1 20000115; DE 19529908 A1 19970220; DE 59604128 D1 20000210; EP 0845028 A1 19980603; EP 0845028 B1 20000105; ES 2142603 T3 20000416; HU P9802376 A2 19990128; HU P9802376 A3 20001128; JP H11510844 A 19990921; KR 19990036368 A 19990525; PL 324634 A1 19980608

DOCDB simple family (application)  
**EP 9603466 W 19960806**; AT 96928415 T 19960806; DE 19529908 A 19950815; DE 59604128 T 19960806; EP 96928415 A 19960806; ES 96928415 T 19960806; HU P9802376 A 19960806; JP 50889997 A 19960806; KR 19980701036 A 19980212; PL 32463496 A 19960806