

Title (en)

PREPARATION OF LOW DENSITY DETERGENT AGGLOMERATES CONTAINING SILICA

Title (de)

HERSTELLUNG VON KIESELSÄURE ENTHALTENDE WASCHMITTELAGGLOMERATE MIT NIEDRIGER DICHT

Title (fr)

PROCEDE DE FABRICATION D'AGGLOMERATS DETERGENTS DE FAIBLE DENSITE CONTENANT DE LA SILICE

Publication

**EP 0915959 B1 20011121 (EN)**

Application

**EP 97934909 A 19970716**

Priority

- US 9711988 W 19970716
- US 2247396 P 19960726

Abstract (en)

[origin: WO9804670A1] A process for continuously preparing low density detergent agglomerate is provided. The process comprises the steps of: (a) agglomerating a liquid acid precursor of a detergent surfactant and dry starting detergent material in a high speed mixer to obtain detergent agglomerates, wherein the dry starting detergent material includes a silica material and an alkaline inorganic material; and (b) drying the detergent agglomerates so as to form the detergent composition having a density of less than about 500 g/l.

IPC 1-7

**C11D 11/00**; **C11D 3/12**; **C11D 17/06**

IPC 8 full level

**C11D 3/12** (2006.01); **C11D 11/00** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP)

**C11D 3/124** (2013.01); **C11D 11/0082** (2013.01); **C11D 17/06** (2013.01)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 9804670 A1 19980205**; AR 008784 A1 20000223; AT E209248 T1 20011215; AU 3796697 A 19980220; BR 9710559 A 19990817; CN 1120229 C 20030903; CN 1230981 A 19991006; DE 69709746 D1 20020221; DE 69709746 T2 20020718; DK 0915959 T3 20020521; EP 0915959 A1 19990519; EP 0915959 B1 20011121; ES 2163792 T3 20020201; GR 3037079 T3 20020131; ID 17634 A 19980115; PT 915959 E 20020328; ZA 976616 B 19980210

DOCDB simple family (application)

**US 9711988 W 19970716**; AR P970103364 A 19970724; AT 97934909 T 19970716; AU 3796697 A 19970716; BR 9710559 A 19970716; CN 97197975 A 19970716; DE 69709746 T 19970716; DK 97934909 T 19970716; EP 97934909 A 19970716; ES 97934909 T 19970716; GR 20010401951 T 20011031; ID 972621 A 19970728; PT 97934909 T 19970716; ZA 976616 A 19970724