

Title (en)
PROCESS FOR THE PREPARATION OF EXTRUDED WASHING OR CLEANING AGENTS CONTAINING WATER-SOLUBLE BUILDERS

Title (de)
VERFAHREN ZUR HERSTELLUNG EXTRUDIERTER WASCH- ODER REINIGUNGSMITTEL MIT WASSERLÖSLICHEN BUILDERSUBSTANZEN

Title (fr)
PROCEDE DE PREPARATION PAR EXTRUSION D' AGENTS DE LAVAGE OU DE NETTOYAGE CONTENANT DES ADJUVANTS DE LAVAGE HYDROSOLUBLES

Publication
EP 0793708 B1 19990113 (DE)

Application
EP 95941007 A 19951123

Priority
• DE 4442977 A 19941202
• EP 9504627 W 19951123

Abstract (en)
[origin: WO9617045A1] The aim of the invention is the production, in particular by extrusion, of washing or cleaning agents with bulk densities higher than 600 g/l containing anionic and, optionally, non-ionic surfactants plus water-soluble builders such as sodium carbonate and amorphous sodium silicate to an extent such that zeolites become unnecessary or are necessary only in smaller quantities, but without causing problems in the production of the agents, particularly as regards the extrusion procedure. This aim is achieved by reducing the average zeolite content to less than 19 % by wt. (calculated on the basis of the anhydrous substance) and adding sodium carbonate and amorphous sodium silicate to give a total content of 10 to 40 % by wt. (also calculated based on the anhydrous substances), the ratio by weight of sodium carbonate to sodium silicate lying within the range 5:1 to 1:10 and at least part of the sodium carbonate being added in granular form. Preferably added are granular carbonate-containing materials which also contain amorphous silicates.

IPC 1-7
C11D 11/00; **C11D 3/08**; **C11D 3/10**; **C11D 17/06**

IPC 8 full level
C11D 1/83 (2006.01); **C11D 3/08** (2006.01); **C11D 3/10** (2006.01); **C11D 11/00** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP)
C11D 1/83 (2013.01); **C11D 3/08** (2013.01); **C11D 3/10** (2013.01); **C11D 17/065** (2013.01)

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

DOCDB simple family (publication)
WO 9617045 A1 19960606; AT E175717 T1 19990115; DE 4442977 A1 19960605; DE 59504841 D1 19990225; EP 0793708 A1 19970910; EP 0793708 B1 19990113; ES 2128793 T3 19990516

DOCDB simple family (application)
EP 9504627 W 19951123; AT 95941007 T 19951123; DE 4442977 A 19941202; DE 59504841 T 19951123; EP 95941007 A 19951123; ES 95941007 T 19951123