

Title (en)
PROCESS FOR MAKING A HIGH DENSITY GRANULAR DETERGENT COMPOSITION CONTAINING MID-CHAIN BRANCHED SURFACTANTS

Title (de)
VERFAHREN ZUR HERSTELLUNG EINER GRANULIERTEN WASCHMITTELZUSAMMENSETZUNG MIT MITTELSTÄNDIG VERZWEIGTEN TENSIDEN

Title (fr)
PROCEDE DE PRODUCTION D'UNE COMPOSITION DETERGENTE GRANULAIRE CONTENANT DES TENSIOACTIFS RAMIFIES EN MILIEU DE CHAINE

Publication
EP 1021521 A1 20000726 (EN)

Application
EP 98952221 A 19981009

Priority
• US 9821420 W 19981009
• US 6187897 P 19971010

Abstract (en)
[origin: WO9919453A1] A process which produces a compact granular detergent composition directly from mid-chain branched surfactants and other starting detergent ingredients is disclosed. The mid-chain branched surfactants are mid-chain branched primary alkyl sulfate surfactants and mid-chain branched primary alkyl alkoxyated sulfate surfactants having an average of greater than 14.5 carbon atoms. The process involves mixing a surfactant paste and drying detergent ingredients, spray drying the resulting slurry, compacting the spray dried granules, grinding and coating the granules to form the finished detergent product.

IPC 1-7
C11D 17/06; **C11D 1/00**; **C11D 1/83**; **C11D 11/00**

IPC 8 full level
C11D 1/83 (2006.01); **C11D 11/00** (2006.01); **C11D 11/02** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP)
C11D 11/0082 (2013.01); **C11D 11/02** (2013.01); **C11D 17/065** (2013.01)

Citation (search report)
See references of WO 9919453A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)
WO 9919453 A1 19990422; BR 9812756 A 20000829; CA 2305351 A1 19990422; CN 1281505 A 20010124; EP 1021521 A1 20000726; JP 2001520271 A 20011030

DOCDB simple family (application)
US 9821420 W 19981009; BR 9812756 A 19981009; CA 2305351 A 19981009; CN 98812004 A 19981009; EP 98952221 A 19981009; JP 2000516007 A 19981009