

Title (en)  
PROCESS FOR PRODUCING COATED DETERGENT PARTICLES

Title (de)  
VERFAHREN ZUR HERSTELLUNG UMHÜLLTER TENSIDTEILCHEN

Title (fr)  
PROCEDE DE PRODUCTION DE PARTICULES DE DETERGENT ENROBEES

Publication  
**EP 1159390 A1 20011205 (EN)**

Application  
**EP 00916147 A 20000308**

Priority

- US 0005983 W 20000308
- US 12344399 P 19990309
- US 12777299 P 19990405

Abstract (en)  
[origin: WO0053714A1] A process for preparing detergent particles having a coating layer of a water-soluble inorganic material is provided. The detergent particle comprises a particle core of a detergent active material. This particle core is then at least partially covered by a particle coating layer of a water soluble inorganic material. Particularly preferred are non-hydratable inorganic coating materials including double salt combinations of alkali metal carbonates and sulfates. The particle coating layer may also include detergent adjunct ingredients such as brighteners, chelants, nonionic surfactants, co-builders, etc. The process includes the steps of passing the particle core through a coating mixer such as a low speed mixer or fluid bed mixer and coating the particle core with a coating solution or slurry of the water soluble inorganic material. Upon drying, the resultant detergent particles have improved appearance and flow properties and may be packaged and sold as a detergent material or mixed with various other detergent ingredients to provide a fully formulated detergent composition.

IPC 1-7  
**C11D 11/00**; C11D 17/06; C11D 3/02; C11D 3/10

IPC 8 full level  
**C11D 1/83** (2006.01); **C11D 3/02** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01); **C11D 17/06** (2006.01); **C11D 1/14** (2006.01); **C11D 1/22** (2006.01); **C11D 1/29** (2006.01); **C11D 1/72** (2006.01)

CPC (source: EP)  
**C11D 1/83** (2013.01); **C11D 3/046** (2013.01); **C11D 11/0088** (2013.01); **C11D 17/0039** (2013.01); **C11D 17/06** (2013.01); **C11D 1/146** (2013.01); **C11D 1/22** (2013.01); **C11D 1/29** (2013.01); **C11D 1/72** (2013.01)

Citation (search report)  
See references of WO 0053714A1

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

DOCDB simple family (publication)  
**WO 0053714 A1 20000914**; AR 022885 A1 20020904; AT E325183 T1 20060615; AU 3729600 A 20000928; BR 0008852 A 20020108; CA 2362413 A1 20000914; CN 1343250 A 20020403; DE 60027707 D1 20060608; DE 60027707 T2 20070405; EP 1159390 A1 20011205; EP 1159390 B1 20060503; EP 1159390 B2 20090812; JP 2002538291 A 20021112

DOCDB simple family (application)  
**US 0005983 W 20000308**; AR P000101050 A 20000309; AT 00916147 T 20000308; AU 3729600 A 20000308; BR 0008852 A 20000308; CA 2362413 A 20000308; CN 00804703 A 20000308; DE 60027707 T 20000308; EP 00916147 A 20000308; JP 2000603340 A 20000308