

Title (en)

PROCESS FOR PRODUCING PASTY WASHING AGENTS

Title (de)

VERFAHREN ZUR HERSTELLUNG PASTENFÖRMIGER WASCHMITTEL

Title (fr)

PROCEDE DE FABRICATION D'UN DETERGENT SE PRESENTANT SOUS FORME DE PATE

Publication

**EP 0641381 B2 19990929 (DE)**

Application

**EP 93909938 A 19930511**

Priority

- DE 4216453 A 19920519
- EP 9301146 W 19930511

Abstract (en)

[origin: US5518645A] A process for producing a paste-form, substantially water-free detergent by heating a mixture of nonionic and anionic surfactants to a predetermined temperature, adding soap in particulate form to the heated mixture, then cooling the mixture, and adding builder components and a bleaching agent to the mixture.

IPC 1-7

**C11D 17/00**; **C11D 10/04**

IPC 8 full level

**C11D 1/02** (2006.01); **C11D 1/04** (2006.01); **C11D 1/66** (2006.01); **C11D 3/39** (2006.01); **C11D 3/395** (2006.01); **C11D 9/02** (2006.01); **C11D 10/04** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01); **C11D 1/12** (2006.01); **C11D 1/14** (2006.01); **C11D 1/72** (2006.01)

CPC (source: EP KR US)

**C11D 3/3947** (2013.01 - EP US); **C11D 10/04** (2013.01 - EP US); **C11D 11/0094** (2013.01 - EP US); **C11D 17/00** (2013.01 - KR); **C11D 17/0004** (2013.01 - EP US); **C11D 1/02** (2013.01 - EP US); **C11D 1/12** (2013.01 - EP US); **C11D 1/14** (2013.01 - EP US); **C11D 1/72** (2013.01 - EP US)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 9323521 A1 19931125**; AT E134384 T1 19960315; CA 2136173 A1 19931125; DE 4216453 A1 19931125; DE 59301689 D1 19960328; DK 0641381 T3 19960624; DK 0641381 T4 20000103; EP 0641381 A1 19950308; EP 0641381 B1 19960221; EP 0641381 B2 19990929; ES 2083285 T3 19960401; ES 2083285 T5 19991116; FI 945417 A0 19941117; FI 945417 A 19941117; GR 3019219 T3 19960630; GR 3031777 T3 20000229; JP H07506607 A 19950720; KR 950701679 A 19950428; NO 306560 B1 19991122; NO 943320 D0 19940908; NO 943320 L 19940908; US 5518645 A 19960521

DOCDB simple family (application)

**EP 9301146 W 19930511**; AT 93909938 T 19930511; CA 2136173 A 19930511; DE 4216453 A 19920519; DE 59301689 T 19930511; DK 93909938 T 19930511; EP 93909938 A 19930511; ES 93909938 T 19930511; FI 945417 A 19941117; GR 960400626 T 19960305; GR 990402868 T 19991108; JP 51985693 A 19930511; KR 19940704096 A 19941116; NO 943320 A 19940908; US 33856594 A 19941207