

Title (en)

PH-CONTROLLED RELEASE OF DETERGENT COMPONENTS

Title (de)

PH-GESTEUERTE FREISETZUNG VON WASCHMITTELKOMPONENTEN

Title (fr)

LIBERATION A PH CONTROLE DE CONSTITUANTS DETERGENTS

Publication

EP 0961823 A1 19991208 (DE)

Application

EP 98905366 A 19980129

Priority

- DE 19704634 A 19970207
- EP 9800474 W 19980129

Abstract (en)

[origin: US2001012826A1] A process of washing textiles is presented involving the delayed release of ingredients from a detergent composition. The process involves first dissolving the detergent in water resulting in a pH below 8, slowly dissolving the coating on a coated alkalizing agent to raise the pH to above 8.5, and dissolving the polymeric acid coating on a detergent ingredient, due to the pH above 8.5, to release the ingredient into the wash water.

IPC 1-7

C11D 3/39; **C11D 17/00**

IPC 8 full level

D06L 4/75 (2017.01); **C11D 3/39** (2006.01); **C11D 3/395** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP US)

C11D 3/0047 (2013.01 - EP US); **C11D 3/3907** (2013.01 - EP US); **C11D 3/3935** (2013.01 - EP US); **C11D 3/3942** (2013.01 - EP US); **C11D 17/0039** (2013.01 - EP US); **C11D 2111/12** (2024.01 - EP US)

Citation (search report)

See references of WO 9835009A1

Designated contracting state (EPC)

AT BE DE ES FR GB IT NL

DOCDB simple family (publication)

US 2001012826 A1 20010809; **US 6407052 B2 20020618**; AT E226978 T1 20021115; DE 19704634 A1 19980827; DE 59806112 D1 20021205; EP 0961823 A1 19991208; EP 0961823 B1 20021030; ES 2187004 T3 20030516; JP 2001510501 A 20010731; JP 4130998 B2 20080813; US 6225276 B1 20010501; WO 9835009 A1 19980813

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US 79315301 A 20010226; AT 98905366 T 19980129; DE 19704634 A 19970207; DE 59806112 T 19980129; EP 9800474 W 19980129; EP 98905366 A 19980129; ES 98905366 T 19980129; JP 53371798 A 19980129; US 36709199 A 19990806