

Title (en)

Packaging for unit dose of detergent and method of its use

Title (de)

Verpackung für Wasch- oder Reinigungsmittel-Einzeldosen und dessen Verfahren zur Verwendung

Title (fr)

Emballage pour détergent sous forme de dose unitaire et son procédé d'utilisation

Publication

EP 1149897 A1 20011031 (EN)

Application

EP 00202542 A 20000714

Priority

- EP 00202542 A 20000714
- EP 00870086 A 20000427

Abstract (en)

The present invention relates to a package which comprises a substrate and one or more fabric treatment chemicals, wherein the fabric treatment chemicals are released from the substrate through the action of temperature, friction and/or contact with water. The present invention also provides a method for treating fabrics, the method comprising the step of opening a package, the package containing at least one unit dose of detergent, and subsequently dissolving and/or dispersing the detergent composition to provide a wash liquor, and wherein the package comprises an insoluble substrate and one or more fabric treatment chemicals, the chemical-containing substrate being used to directly or indirectly apply the fabric treatment chemicals to the fabrics.

IPC 1-7

C11D 17/04; **C11D 3/37**

IPC 8 full level

B65D 75/04 (2006.01); **C11D 3/37** (2006.01); **C11D 17/00** (2006.01); **C11D 17/04** (2006.01)

CPC (source: EP KR)

B65D 81/3272 (2013.01 - KR); **C11D 3/001** (2013.01 - KR); **C11D 17/0073** (2013.01 - EP KR); **C11D 17/045** (2013.01 - KR); **C11D 17/046** (2013.01 - EP); **D06L 1/01** (2017.01 - KR); **C11D 2111/12** (2024.01 - KR)

Citation (applicant)

- US 3989631 A 19761102 - MARSAN MARIO S
- US 4055248 A 19771025 - MARSAN MARIO S
- US 4073996 A 19780214 - BEDENK WILLIAM THOMAS, et al
- US 4022938 A 19770510 - ZAKI WAHIB NASSIF, et al
- US 4764289 A 19880816 - TRINH TOAN [US]
- US 4808086 A 19890228 - EVANS MARK D [US], et al
- US 4103047 A 19780725 - ZAKI WAHIB NASSIF, et al
- US 3736668 A 19730605 - DILLARSTONE A
- US 3701202 A 19721031 - COMPA RUSSEL EDWARD, et al
- US 3634947 A 19720118 - FURGAL HENRY P
- US 3633538 A 19720111 - HOEFLIN MELVIN W
- US 3435537 A 19690401 - RUMSEY JOSEPH F JR
- US 4000340 A 19761228 - MURPHY ALAN PEARCE, et al
- US 3686025 A 19720822 - MORTON DAVID RUSSELL

Citation (search report)

- [E] WO 0100781 A1 20010104 - HENKEL KGAA [DE]
- [E] DE 19934254 A1 20010125 - HENKEL KGAA [DE]

Cited by

US2015118930A1; US10370792B2; US10030334B2

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)

EP 1149897 A1 20011031; AR 028045 A1 20030423; AT E276354 T1 20041015; AU 2001257301 B2 20050505; AU 5730101 A 20011107; BR 0110365 A 20030218; CA 2403582 A1 20011101; CA 2403582 C 20070619; CN 1426453 A 20030625; DE 60105581 D1 20041021; DE 60105581 T2 20050929; EP 1276847 A1 20030122; EP 1276847 B1 20040915; ES 2227184 T3 20050401; JP 2003531282 A 20031021; KR 100496724 B1 20050622; KR 20020089532 A 20021129; MX PA02010601 A 20030310; WO 0181530 A1 20011101

DOCDB simple family (application)

EP 00202542 A 20000714; AR P010101956 A 20010426; AT 01930798 T 20010425; AU 2001257301 A 20010425; AU 5730101 A 20010425; BR 0110365 A 20010425; CA 2403582 A 20010425; CN 01808560 A 20010425; DE 60105581 T 20010425; EP 01930798 A 20010425; ES 01930798 T 20010425; JP 2001578601 A 20010425; KR 20027014420 A 20021025; MX PA02010601 A 20010425; US 0113456 W 20010425