

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
4 April 2002 (04.04.2002)

PCT

(10) International Publication Number
WO 02/026896 A3

(51) International Patent Classification⁷: **C11D 17/04**,
B05D 7/04

Richard; 105 St. James Avenue, Upton-by-Chester,
Cheshire CH2 1NN (GB).

(21) International Application Number: PCT/EP01/10853

(74) Agents: **ELLIOTT, Peter, William** et al.; Unilever PLC,
Patent Department, Colworth House, Sharnbrook, Bedford,
Bedfordshire MK44 1LQ (GB).

(22) International Filing Date:
20 September 2001 (20.09.2001)

(25) Filing Language: English

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA,
ZW.

(26) Publication Language: English

(30) Priority Data:
0023713.1 27 September 2000 (27.09.2000) GB

(71) Applicant (*for AE, AG, AU, BB, BZ, CA, CY, GB, GD, GH,
GM, IE, IL, KE, LC, LK, LS, MN, MW, NZ, SD, SG, SL, SZ,
TT, TZ, UG, ZA, ZW only*): **UNILEVER PLC** [GB/GB];
Unilever House, Blackfriars, London EC4P 4BQ (GB).

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,
CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
TG).

(71) Applicant (*for AL, AM, AT, AZ, BA, BE, BF, BG, BJ, BR,
BY, CF, CG, CH, CI, CM, CN, CO, CR, CU, CZ, DE, DK,
DM, DZ, EC, EE, ES, FI, FR, GA, GE, GN, GQ, GR, GW,
HR, HU, ID, IS, IT, JP, KG, KP, KR, KZ, LR, LT, LU, LV,
MA, MC, MD, MG, MK, ML, MR, MX, MZ, NE, NL, NO,
PH, PL, PT, RO, RU, SE, SI, SK, SN, TD, TG, TJ, TM, TR,
UA, UZ, VN, YU only*): **UNILEVER NV** [NL/NL]; Weena
455, NL-3013 AL Rotterdam (NL).

Published:
— with international search report

(71) Applicant (*for IN only*): **HINDUSTAN LEVER LIM-
ITED** [IN/IN]; Hindustan Lever House, 165/166 Backbay
Reclamation, Maharashtra, 400 020 Mumbai (IN).

(88) Date of publication of the international search report:
19 December 2002

(72) Inventors: **CROPPER, James, Dawson**; c/o Lever
Faberge Limited, Lever Development Centre, Port Sun-
light, Wirral, Merseyside CH62 4ZD (GB). **HARBOUR**,

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*



WO 02/026896 A3

(54) Title: PROCESS FOR COATING A WATER-SOLUBLE PACKAGE AND PACKAGE COATED BY THAT PROCESS

(57) Abstract: A water-soluble package comprises a composition such as a liquid detergent composition enclosed within a water-soluble film. The film, or at least a substantial portion thereof, is dusted with a powder such as talc, starch, calcium stearate or zinc stearate by passing the package through a cloud or fluidised bed of the particles.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 01/10853

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C11D17/04 B05D7/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B05D C11D B65D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE WPI Section Ch, Week 198910 Derwent Publications Ltd., London, GB; Class A14, AN 1989-074741 XP002209044 & JP 01 029438 A (KAO CORP), 31 January 1989 (1989-01-31) cited in the application abstract</p>	<p>1,5-9, 11,13-17</p>
X	<p>US 4 416 791 A (HAQ ZIA) 22 November 1983 (1983-11-22) column 3, line 33 - line 45 column 4, line 58 - line 65 example 1</p>	<p>1,2,5, 9-13</p>
	-/--	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

7 August 2002

Date of mailing of the international search report

21/08/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Stembrouck, I

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 01/10853

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 217 186 A (JOHNSON & SON INC S C) 8 April 1987 (1987-04-08) page 13, line 18 - line 34 -----	1,11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 01/10853

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 1029438	A	31-01-1989	NONE	
US 4416791	A	22-11-1983	AT 32327 T AU 549230 B2 AU 9022682 A BR 8206490 A CA 1190465 A1 DE 3278073 D1 EP 0079248 A2 ES 517260 D0 ES 8900250 A1 GB 2109706 A ,B JP 1024066 B JP 1539489 C JP 58087050 A PT 75821 A ,B ZA 8208235 A	15-02-1988 23-01-1986 19-05-1983 27-09-1983 16-07-1985 10-03-1988 18-05-1983 01-06-1989 16-10-1989 08-06-1983 10-05-1989 16-01-1990 24-05-1983 01-12-1982 27-06-1984
EP 0217186	A	08-04-1987	AU 6261586 A BR 8604362 A CA 1279749 A1 EP 0217186 A1 JP 62084199 A NO 863637 A NZ 217552 A US 4797221 A	19-03-1987 12-05-1987 29-01-1991 08-04-1987 17-04-1987 13-03-1987 29-08-1989 10-01-1989