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(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).

(71) Applicant (for all designated States except AE, AG, AU, BB, BZ, CA, CY, GB, GD, GH, GM, IE, IL, IN, KE, LC, LK, LS, MN, MW, NZ, SD, SG, SL, SZ, TT, TZ, UG, ZA, ZW): UNILEVER NV [NL/NL]; Weena 455, NL-3013 AL Rotterdam (NL).

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

(72) Inventors: KARPUSIEWICZ, William, Martyn; Unilever Home & Personal Care USA, 75 Merritt Boulevard, Trumbull, CT 06611 (US). RAY, Roy, D.; 101 Mission Hills Drive, Cartersville, GA 30120 (US).

GLASSMAN, Philip; Unilever Home & Personal Care USA, 75 Merritt Boulevard, Trumbull, CT 06611 (US). LOVAS, John, Edward; Unilever Research U.S. Inc., 45 River Road, Edgewater, NJ 07020 (US).

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

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Published:

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12 July 2001

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR MANUFACTURING DETERGENT POWDER

(57) Abstract: A process for applying relatively volatile ingredients, such as perfume, to powdered detergents minimizes the loss of the ingredients to the atmosphere and increases plant efficiency.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 00/06456

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C11D11/00 C11D3/50

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 C11D

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	US 4 006 110 A (KENNEY EDWARD J ET AL) 1 February 1977 (1977-02-01) column 4, line 49 -column 5, line 17 example 1 ---	1,2,4,6
X	WO 92 06163 A (PROCTER & GAMBLE) 16 April 1992 (1992-04-16) example 1 ---	1,2,6
X	EP 0 582 478 A (COLGATE PALMOLIVE CO) 9 February 1994 (1994-02-09) example 1 ---	1,2,6
X	WO 93 21292 A (CHURCH & DWIGHT CO INC) 28 October 1993 (1993-10-28) page 6, last paragraph --- -/--	1,2,6

☒ 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

8 November 2000

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12.01.01

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

Bertran Nadal, J

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 00/06456

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DATABASE WPI Week 199422 Derwent Publications Ltd., London, GB; AN 1994-181673 XP002152145 & SU 1 804 475 A (FLORA PRODN ASSOC), 23 March 1993 (1993-03-23) abstract	1-3,6
A	--- GB 748 780 A (NV DE BATAAFSCHE PETROLEUM MAATSCHAPPIJ) 9 May 1956 (1956-05-09) page 1, line 84-92 page 2, line 129 -page 3, line 22 -----	1,3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 00/06456

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-7

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-7

A process for manufacturing a detergent powder product comprising: mixing a base powder with one or more detergent components and/or adjuncts in a mixing apparatus to produce a base powder mixture and applying a volatile component (a perfume) after the mixing apparatus to the base powder mixture.

2. Claims: 8-14

An apparatus for applying a volatile component (a perfume) to a mixture comprising a base powder and one or more detergent components and/or adjuncts comprising: measuring means for measuring a pre-determined amount of the mixture; container moving means for sequentially moving containers underneath the measuring means; and a spray nozzle disposed (1) above the container moving means and (2) at least partially below a portion of the measuring means.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 00/06456

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