

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 March 2003 (06.03.2003)

PCT

(10) International Publication Number
WO 2003/018102 A3

(51) International Patent Classification⁷: **A61M 35/00**

(21) International Application Number:
PCT/IB2002/003485

(22) International Filing Date: 28 August 2002 (28.08.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/315,894 29 August 2001 (29.08.2001) US

(71) Applicant (for all designated States except US): **VECTURA LIMITED** [GB/GB]; University of Bath Campus, Claverton Down, Bath BA2 7AY (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TOBYN, Michael, John** [GB/GB]; 18 Queens Club Gardens, Trowbridge,

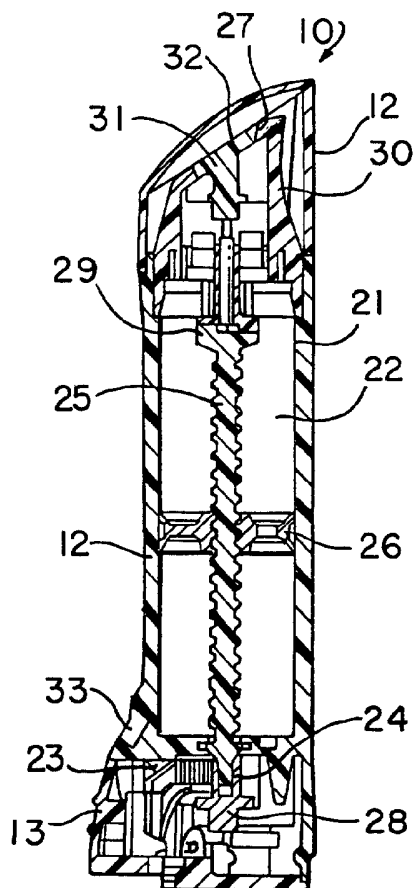
Wilts BA14 9SS (GB). **STANFORTH, John, Nicolas** [GB/GB]; 170 Bloomfield Road, Bath, Banes BA 2 7AT (GB). **MILLS, Sharon, Ann** [GB/GB]; Mendip Cottage, High Street, Faulkland, Bath, Banes BA3 5UX (GB). **PATERSON, Graeme, Lindsay, Jonathan** [GB/GB]; Wytegate, Upper North Street, Cheddar, Somerset BS27 3HX (GB). **ALTHORPE, Christopher** [GB/GB]; 31 Ilton Road, Penylan, Cardiff CF23 5DU (GB).

(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, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: TOPICAL ADMINISTRATION DEVICE



(57) Abstract: Disclosed is a dosing device for topically administering a pharmaceutical formulation to a skin of a mammal, the device comprising a housing capable of holding at least one unit dose of a pharmaceutical formulation comprising a drug and a carrier; an applicator adapted for topically administering a unit dose of the pharmaceutical formulation directly onto the skin; and an actuator, wherein upon actuation, the device is capable of metering a unit dose of the pharmaceutical formulation external to the device, from the housing to the applicator; and methods thereof.



Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK,
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

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.

Published:

— *with international search report*

(88) Date of publication of the international search report:

3 June 2004

INTERNATIONAL SEARCH REPORT

Internal Application No
PCT/IB 02/03485

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61M35/00

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 A61M

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 95 34340 A (NOVONORDISK AS ; PEDERSEN BETTINA ELBAEK (DK); LARSEN PETER BLUM (D) 21 December 1995 (1995-12-21) page 4, line 4 -page 6, line 20; figures 1-8	1-101, 107-121, 124
X	US 5 827 235 A (BEAVER GEORGE M) 27 October 1998 (1998-10-27) column 3, line 47 -column 4, line 25; figures 3-6 -/--	1-9, 18-40, 43, 45-53, 65-101, 107-121, 124

☒ 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
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- *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
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- *Z* document member of the same patent family

Date of the actual completion of the international search

13 May 2003

Date of mailing of the international search report

22/05/2003

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

Ceccarelli, D

INTERNATIONAL SEARCH REPORT

Internal Application No
PCT/IB 02/03485

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 224 572 B1 (DAVIS CLARK C ET AL) 1 May 2001 (2001-05-01) column 4, line 40 -column 5, line 6; figures 1-3 -----	1-9, 18-40, 43, 45-53, 65-101, 107-121, 124
X	DE 29 17 805 A (KREHN SIEGFRIED) 13 November 1980 (1980-11-13) page 12, paragraph 3 -page 14, paragraph 2; figures 1-3 -----	1

INTERNATIONAL SEARCH REPORT

Inte

al application No.
PCT/IB 02/03485**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.: 102-106, 122-123
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
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:

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.:

Remark on Protest

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

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/IB 02/03485

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