

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 December 2002 (05.12.2002)

PCT

(10) International Publication Number
WO 02/096347 A3

- (51) International Patent Classification⁷: **A61K 9/48**
- (21) International Application Number: PCT/US02/16185
- (22) International Filing Date: 22 May 2002 (22.05.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/294,786 31 May 2001 (31.05.2001) US
- (71) Applicant (for all designated States except US): **MICRO-DOSE TECHNOLOGIES, INC.** [US/US]; 4262 U.S. Route 1, Monmouth Junction, NJ 08852 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **ABRAMS, Andrew, L.** [US/US]; 26 Imperial Avenue, Westport, CT 06880 (US). **GUMASTE, Anand, V.** [US/US]; 7 Ardsley Court, Robbinsville, , NJ 08691 (US).
- (74) Agents: **SOLOWAY, Norman, P.** et al.; Hayes Soloway P.C., 130 W. Cushing Street, Tucson, AZ 85701 (US).
- (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), 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).
- Published:**
— with international search report
- (88) Date of publication of the international search report:
27 March 2003
- 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.*



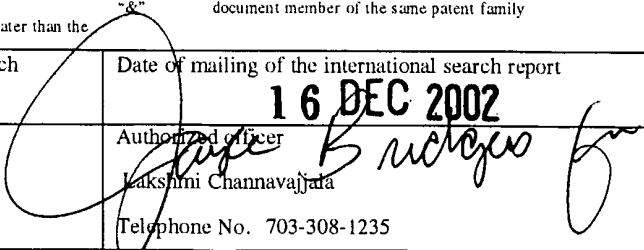
WO 02/096347 A3

(54) Title: METERING AND PACKAGING OF CONTROLLED RELEASE MEDICATION

(57) Abstract: Controlled quantities of powdered medication are formed in controlled release packages using electrostatic metering. Also provided are combination medication therapy delivery packages comprising two or more active pharmaceuticals segregated from one another in a single delivery package.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US02/16185

<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61K 9/48 US CL : 424/451, 457, 464, 490, 449 According to International Patent Classification (IPC) or to both national classification and IPC</p>												
<p>B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 424/451, 457, 464, 490, 449</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST</p>												
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>US 5,960,609 A (ABRAMS et al.) 05 October 1999, see entire document.</td> <td>1-8</td> </tr> <tr> <td>Y</td> <td>US 4,795,644 A (ZENTNER) 03 January 1989, see entire document.</td> <td>9-63</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	Y	US 5,960,609 A (ABRAMS et al.) 05 October 1999, see entire document.	1-8	Y	US 4,795,644 A (ZENTNER) 03 January 1989, see entire document.	9-63	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
Y	US 5,960,609 A (ABRAMS et al.) 05 October 1999, see entire document.	1-8										
Y	US 4,795,644 A (ZENTNER) 03 January 1989, see entire document.	9-63										
<p><input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.</p>												
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"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</td> </tr> <tr> <td>"E" earlier application or patent published on or after the international filing date</td> <td>"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</td> </tr> <tr> <td>"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)</td> <td>"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</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"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	"E" earlier application or patent published on or after the international filing date	"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	"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)	"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	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed	
"A" document defining the general state of the art which is not considered to be of particular relevance	"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											
"E" earlier application or patent published on or after the international filing date	"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											
"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)	"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											
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family											
"P" document published prior to the international filing date but later than the priority date claimed												
Date of the actual completion of the international search 25 November 2002 (25.11.2002)		Date of mailing of the international search report 16 DEC 2002										
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230		Authorized officer  Lakshmi Channavaajata Telephone No. 703-308-1235										