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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
22 July 2004 (22.07.2004)

PCT

(10) International Publication Number
WO 2004/060473 A3

(51) International Patent Classification[7]: A61M 37/00

(21) International Application Number:
PCT/US2003/041334

(22) International Filing Date:
24 December 2003 (24.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/436,590 26 December 2002 (26.12.2002) US

(71) Applicant: **ALZA CORPORATION** [US/US]; 1900 Charleston Road, P.O. Box 7210, Mountain View, CA 94039-7210 (US).

(72) Inventors: **CORMIER, Michel**; 278 Andsbury Avenue, Mountain View, CA 94043 (US). **MATRIANO, James**; 2384 Lida Drive, Mountain View, CA 94043 (US). **JOHNSON, Juanita**; 2822 San Juan Blvd., Belmont, CA 94002 (US).

(74) Agents: **WEBB, Samuel, E.** et al.; Alza Corporation, c/o Johnson & Johnson, One Johnson & Johnson Plaza, WH3221, New Brunswick, NJ 08933 (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, 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, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

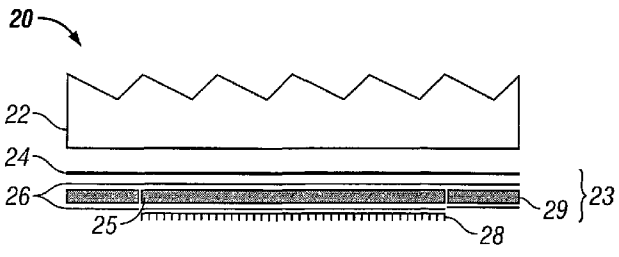
(84) Designated States *(regional)*: ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF,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

Published:
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
25 November 2004

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: ACTIVE AGENT DELIVERY DEVICE HAVING COMPOSITE MEMBERS



(57) Abstract: A device and method are provided for percutaneous transdermal delivery of a biologically active agent by applying a microprojection array to the skin of a person or animal with a system that has a composite applicator tip and/or a composite microprojection ar ray system.

WO 2004/060473 A3