

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number
WO 2005/004729 A1

(51) International Patent Classification⁷: **A61B 17/20**,
A61M 37/00

(21) International Application Number:
PCT/US2004/021076

(22) International Filing Date: 29 June 2004 (29.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/484,142 30 June 2003 (30.06.2003) US

(71) Applicant (for all designated States except US): **ALZA CORPORATION** [US/US]; 1900 Charleston Road, P.O. Box 7210, Building M10-3B, Mountain View, CA 94039-7210 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DADDONA, Peter** [US/US]; 35 Anderson Way, Menlo Park, CA 94025 (US).

CHAN, Keith, T. [US/US]; 1235 Balboa Court, Sunnyvale, CA 94086 (US). **DONNER, John, W.** [US/US]; 24 Arastradero Road, Portola Valley, CA 94028 (US). **AYER, Rupal** [US/US]; 10670 Morengo Drive, Cupertino, CA 95014 (US).

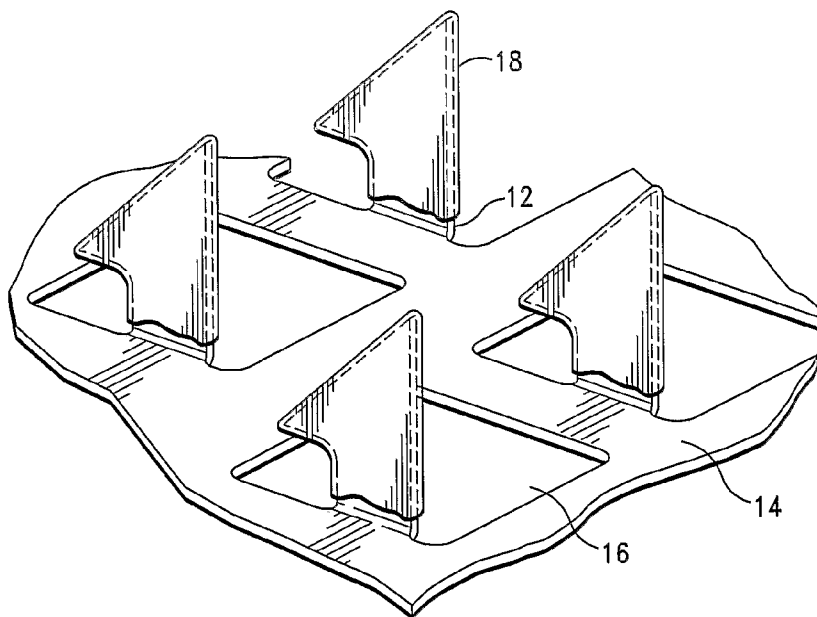
(74) Agents: **FRANCIS, Ralph, C.** et al.; Alza Corporation, c/o Johnson & Johnson, One Johnson & Johnson Plaza, WH3221, New Brunswick, NJ 08933 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): 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, NA, 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, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: METHOD FOR COATING SKIN PIERCING MICROPROJECTIONS



(57) Abstract: An apparatus (10) and method are provided for selectively applying an agentcontaining liquid coating to extremely tiny skin piercing microprojections (12) . The coating solution is applied to the skin piercing microprojections (12) using a coating technique which selectively coats only predetermined portions the skin piercing microprojections (12) . By the use of various photoresists and hydrophobic coatings, a defined and precise portion of the microprojections and/or the microprojection (12) . arrays can be coated with an agent formulation.

WO 2005/004729 A1



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

Published:

— *with international search report*

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.