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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
27 December 2001 (27.12.2001)

PCT

(10) International Publication Number
WO 01/97795 A2

(51) International Patent Classification[7]: A61K 31/00

(21) International Application Number: PCT/US01/19979

(22) International Filing Date: 22 June 2001 (22.06.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/213,420 22 June 2000 (22.06.2000) US
09/676,339 29 September 2000 (29.09.2000) US

(71) Applicant: **3M INNOVATIVE PROPERTIES COMPANY** [US/US]; 3M Center P.O. Box 33427, St. Paul, MN 55133-3427 (US).

(72) Inventors: **HEDENSTROM, John, C.**; 1415 West Hoyt Avenue, Saint Paul, MN 55108 (US). **JOZWIAKOWSKI, Michael, J.**; 2578 Oriole Avenue N., Stillwater, MN 55082 (US). **MARTINEZ, Mark**; 1052 Ventura Avenue, Albany, CA 94706 (US). **PHARES, Kenneth, R.**; 194 Amber Wood Rn., Chapel Hill, NC 27516 (US). **TROFATTER, Kenneth, F., Jr.**; 18261 Tamarack Drive, Minnetonka, MN 55345 (US).

(74) Agents: **GARRETT, Arthur, S.** et al.; Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., 1300 I Street, N.W., Washington, DC 20005-3315 (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, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, 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, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that 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.

WO 01/97795 A2

(54) Title: SYSTEMS AND METHODS FOR TREATING A MUCOSAL SURFACE

(57) Abstract: A system for treating a condition associated with a mucosal surface, the system comprising an immune response modifier (IRM) compound chosen from imidazoquinoline amines, imidazopyridine amines, 6,7-fused cycloalkylimidazopyridine amines, imidazonaphthyridine amines, oxazoloquinoline amines, thiazoloquinoline amines, 1,2-bridged imidazoquinoline amines, and pharmaceutically acceptable salts thereof and an applicator device for applying the IRM compound to the mucosal surface. This system of IRM compounds and applicator may be used to treat conditions associated with mucosal surfaces such as cervical dysphasia and cervical intraepithelial neoplasia.