

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 April 2003 (03.04.2003)

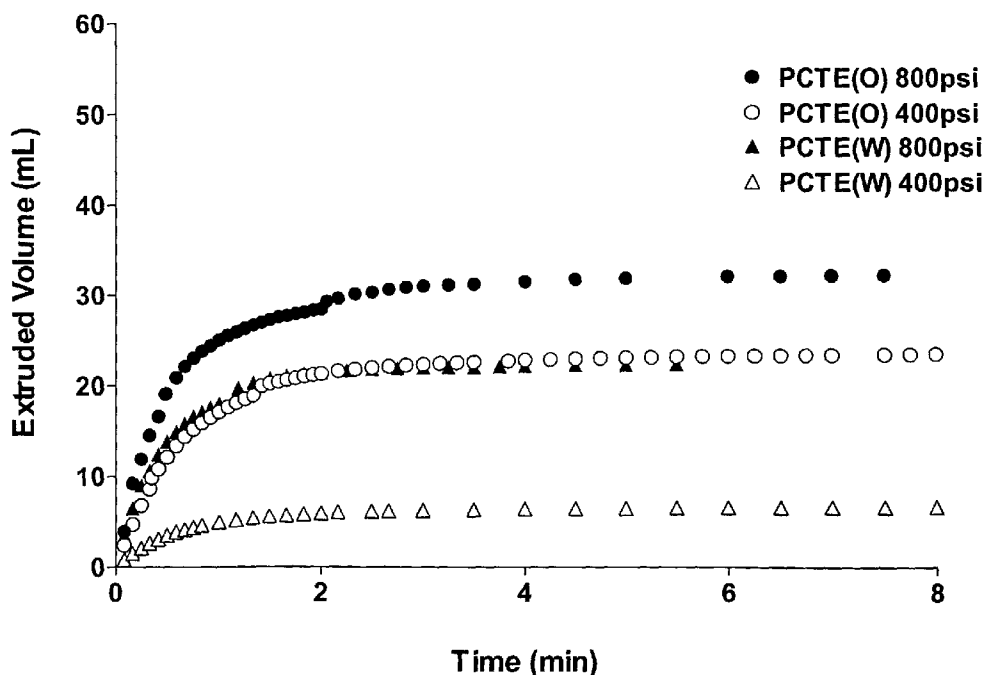
PCT

(10) International Publication Number
WO 03/026588 A2

- (51) International Patent Classification⁷: **A61K** (74) Agents: **CORUZZI, Laura, A.** et al.; Pennie & Edmonds LLP, 1155 Avenue of the Americas, New York, NY 10036 (US).
- (21) International Application Number: PCT/US02/31019
- (22) International Filing Date:
27 September 2002 (27.09.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/326,032 28 September 2001 (28.09.2001) US
- (71) Applicant: **ESPERION THERAPEUTICS, INC.**
[US/US]; 3621 S. State Street, 695 KMS Place, Ann Arbor, MI 48108 (US).
- (72) Inventors: **HILL, Knut, R.**; 225 Outer Lane, Ypsilant, MI 48198 (US). **RODRIGUEZA, Wendi**; 2148 Vail Court, Ann Arbor, MI 48108 (US). **SY, Gavin, A.**; 2795 Winwood Drive, #167, Ann Arbor, MI 48105 (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, 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, 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).
- Published:**
— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: METHODS AND APPARATUS FOR EXTRUSION OF VESICLES AT HIGH PRESSURE



(57) Abstract: This invention relates in general to methods and devices for producing vesicles, including micelles, and particularly liposomes, by extruding solutions comprising materials capable of forming vesicles through a screen membrane at high pressure.

WO 03/026588 A2



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.