

(51) International Patent Classification:
A61K 9/127 (2006.01) *C07K 14/775* (2006.01)(21) International Application Number:
PCT/US2009/068499(22) International Filing Date:
17 December 2009 (17.12.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/138,353 17 December 2008 (17.12.2008) US(71) Applicant (for all designated States except US): **ON-COTHYREON, INC.** [US/US]; 2601 Fourth Avenue, Suite 500, Seattle, Washington 98121 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DUPUIT, Robert, A.** [CA/CA]; 11743-37A Avenue, Edmonton, Alberta T6J 0J7 (CA). **REILLEY, William, J.** [US/US]; 11 Cranbury Neck Road, Cranbury, New Jersey 08512 (US).(74) Agents: **BROWDY AND NEIMARK, P.L.L.C.** et al.; 624 Ninth Street N.W., Suite 300, Washington, District of Columbia 20001-5303 (US).

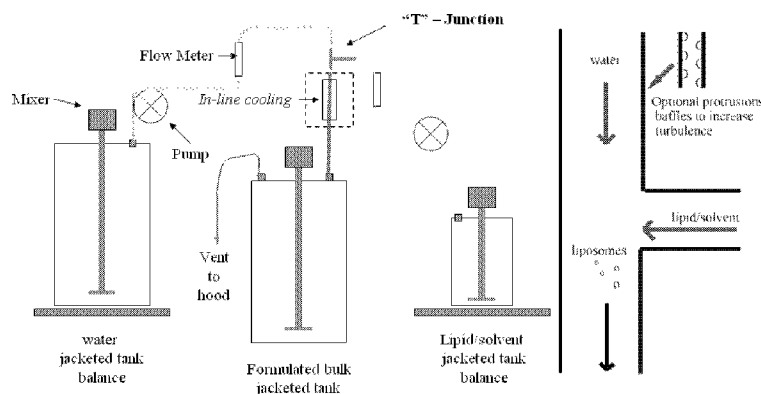
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (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 (Rule 48.2(g))

(54) Title: METHOD OF MAKING SMALL LIPOSOMES



(57) Abstract: Liposomes of constrained particle size are prepared by substantially continuously mixing substantially continuous-flowing streams of water, and of an organic solvent contain lipid(s) capable of forming liposomes, and cooling the mixture so liposomes form, the ratio of the flow rate of the stream of water to the flow rate of the stream of organic solvent, and the rate of cooling of said mixture, being controlled so as to obtain a preparation of liposomes such that at least about 90% of the liposomes are of a particle size less than about 200 nm.