



(51) International Patent Classification:
B01D 1/18 (2006.01) **C02F 1/12** (2006.01)

(21) International Application Number:
PCT/AU2011/000192

(22) International Filing Date:
23 February 2011 (23.02.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2010900741 23 February 2010 (23.02.2010) AU

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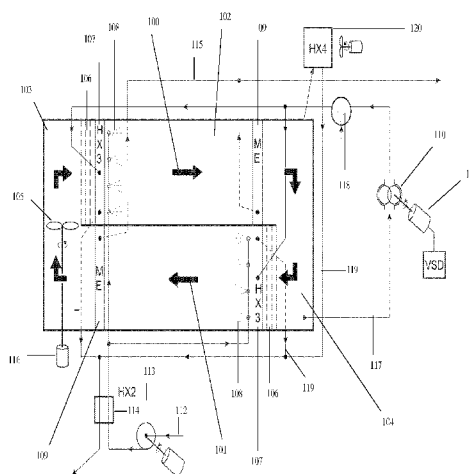
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, 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, TH, 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, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, 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, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- with amended claims (Art. 19(1))

(54) Title: A DEVICE FOR HEATING A LIQUID COMPRISING A SOLVENT AND SOLUTE, AND SEPARATING THE SOLVENT AND SOLUTION



(57) Abstract: A device for treating a liquid comprising a solvent and a solute, and separating the solvent and solute, the device comprising a continuous flow treatment chamber including: (a) one or more drying zones (101,102); (b) one or more return zones (103,104) to circulate heating fluid continuously through drying zone(s) (101,102) and return zone(s) (103,104) sequentially; (c) a heating fluid inlet(s) in at least one of the return zones (103,104) for the introduction of the heating fluid; (d) a circulating fan (105) to circulate the heating fluid; (e) a liquid inlet(s) in the drying zone(s) (101,102) including nozzles (108) through which liquid to be treated is introduced in misted form into the zones (101,102); (f) a solute collector(s) (109) located in the drying zone(s) (101,102) downstream of the liquid inlet(s); wherein the introduced liquid is heated by the heating fluid and the solute is separated from the liquid in the solute collector(s) (109).