



- (51) International Patent Classification:
B04B 1/20 (2006.01)
- (21) International Application Number:
PCT/EP2012/003159
- (22) International Filing Date:
26 July 2012 (26.07.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
11006271.8 29 July 2011 (29.07.2011) EP
- (71) Applicant (for all designated States except US): **AN-DRITZ S.A.S.** [FR/FR]; 2-4 Avenue de l'Europe, F-Vel-izy-Villacoublay (FR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **PASOL, Laurentiu** [FR/FR]; 9, rue Saint Lambert, F-75015 Paris (FR). **HUYGHE, Jean-Marc** [FR/FR]; 47, allée Paul Rue, F-36330 Le Poinçonné (FR).
- (74) Agent: **SCHWEINZER, Friedrich**; Stattegger Strasse 18, A-8045 Graz (AT).
- (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, BN, 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, QA, RO, RS, RU, RW, 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, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(54) Title: CENTRIFUGE AND DISCHARGE PORT MEMBER OF A CENTRIFUGE FOR POWER REDUCTION

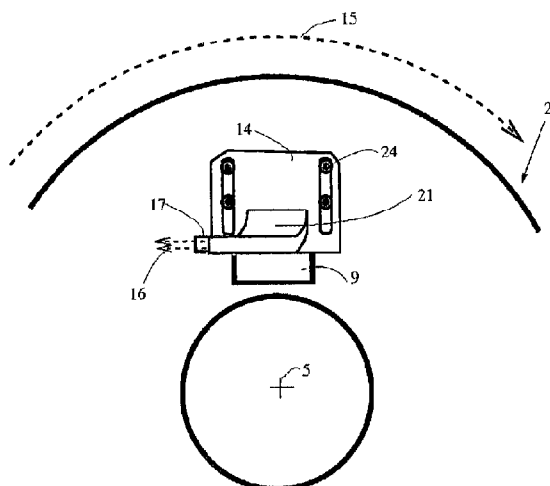


Fig 2.a

(57) Abstract: The invention relates to a rotating machine (1), especially a decanter centrifuge, comprising a bowl (2) rotatable about an axis (5) to generate a cylindrical pool of a feed slurry, said bowl (2) having a heavy phase discharge port (10); and a base plate (6) provided at one longitudinal end (8) of said bowl (2); at least one outlet opening (9) provided in said base plate (6); a liquid phase discharge port member (14, 22) placed over the at least one outlet opening (9); characterised by said liquid phase discharge port member (14, 22) including at least one open straight channel (17) with a longitudinal axis (18); wherein the longitudinal axis (18) of said channel (17) extends at an acute angle (a) relative to said base plate (6) and said channel (17) has an extension in the direction of said longitudinal axis (18). The invention also relates to a liquid phase discharge port member (14, 22) adapted to be placed over an outlet opening (9) of a rotating machine (1), especially a decanter centrifuge.