

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
2 July 2009 (02.07.2009)

PCT

(10) International Publication Number
WO 2009/082676 A1

(51) International Patent Classification:
B01F 3/04 (2006.01)

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(21) International Application Number:
PCT/US2008/087576

(22) International Filing Date:
19 December 2008 (19.12.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/016,246 21 December 2007 (21.12.2007) 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, 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, 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.

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(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, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

(54) Title: GAS FOIL IMPELLER

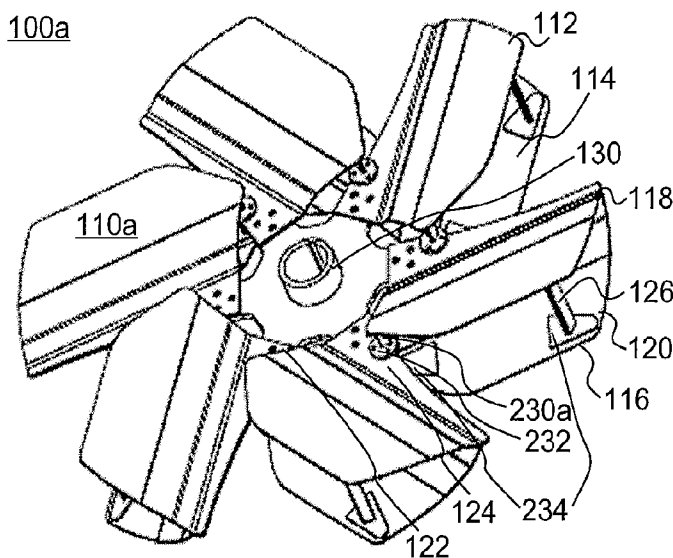


FIG. 4A

(57) Abstract: An impeller assembly includes a shaft, multiple scoops spaced circumferentially about the shaft, each scoop including an upper blade portion and a lower blade portion, spaced apart at the leading edges and joined at the inner edges, and a rib extending rearward from the inner edges, each scoop being coupled to the shaft by attachment at the rib. A system and method for mixing gas or liquid into liquid include a vessel for containing liquid, a drive shaft for extending into the vessel, and an impeller assembly adapted for rotating about the drive shaft, adapted for submerging below the liquid surface, and having multiple scoops, each scoop including an upper blade portion and a lower blade portion, spaced apart at the leading edges and joined at the inner edges, and a rib extending rearward from the inner edges, each scoop being coupled to the shaft by attachment at the rib.