(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
7 February 2008 (07.02.2008)

PCT

(10) International Publication Number
WO 2008/014559 A1

(51) International Patent Classification:
E03F 9/00 (2006.01) *B08B 9/032* (2006.01)
B08B 9/093 (2006.01) *E21B 37/08* (2006.01)

(21) International Application Number:
PCT/AU2007/001083

(22) International Filing Date: 3 August 2007 (03.08.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2006 904 218 4 August 2006 (04.08.2006) AU

(71) Applicant and
(72) Inventor: **HATTEN, Paul, Robert** [AU/AU]; 1415 Bribie Island Road, Ningi, QLD 4511 (AU).

(74) Agent: **IP FIRST**; PO Box 1089, Toowong, QLD 4066 (AU).

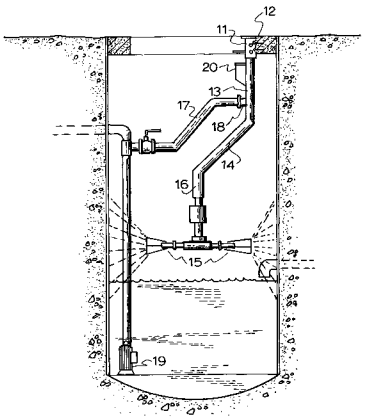
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, 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, 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, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, 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*

WO 2008/014559 A1

(54) Title: WELL CLEANING APPARATUS



(57) Abstract: A well cleaning apparatus comprises water jets rotating on a vertical feed conduit which is rotatably mounted at the top of the well and fed by a stream of fluid pumped from the well by a submersible pump. The apparatus has a housing attached above the inlet pipe to hold an atomiser which allows a deodorizing vapor to be drawn into the conduit by the feed stream. The water jets have deflectors mounted at the end of the jets to direct the effluent being pumped through them.