



(51) International Patent Classification:

B23K 9/12 (2006.01) **B23K 9/18** (2006.01)
B23K 9/173 (2006.01)

(21) International Application Number:

PCT/EP2010/064499

(22) International Filing Date:

29 September 2010 (29.09.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant (for all designated States except US): **ESAB AB** [SE/SE]; P.O. Box 8004, S-402 77 Göteborg (SE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **BERG, Michael** [SE/SE]; Björnstigen 2, S-695 31 Laxå (SE).

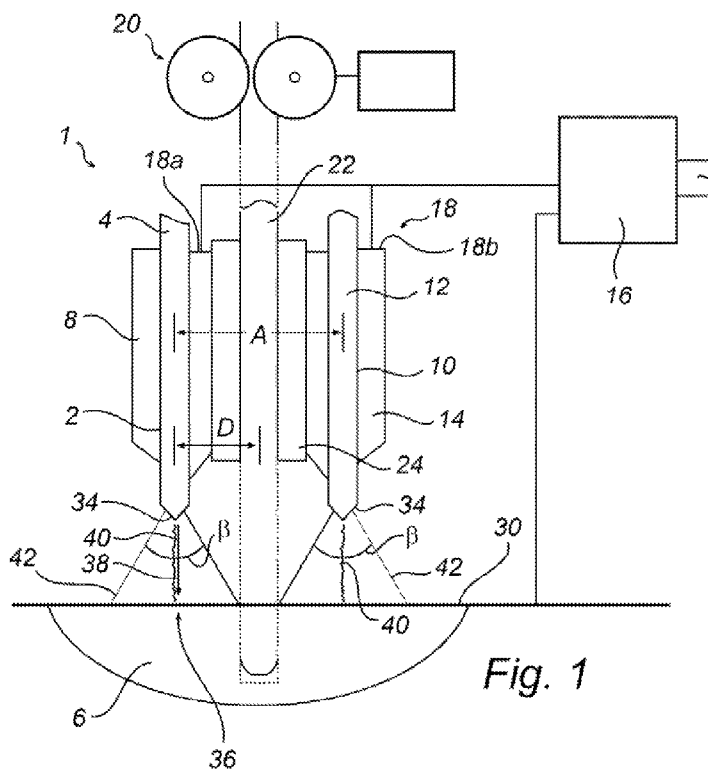
(74) Agent: **EKSTRÖM, Nils**; AWAPATENT AB, P.O. Box 11394, S-40428 Göteborg (SE).

(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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: A WELDING APPARATUS AND A METHOD FOR WELDING



(57) Abstract: The invention relates to a twin wire welding apparatus (1) including a first contact tube (2) for guiding a first consumable electrode (4) toward a weld puddle (6) and transferring welding current to the first consumable electrode (4), a second contact tube (10) for guiding a second consumable electrode (12) toward said weld puddle (6) and transferring welding current to the second consumable electrode (12), and a single power source (16) connected to said first and second contact tubes (2,10) for providing the same potential to said two consumable electrodes (4,12), and to a method for operating such an apparatus.

WO 2012/041375 A1



Published:

— *with international search report (Art. 21(3))*