



(51) International Patent Classification:

C23C 2/02 (2006.01) C23G 1/36 (2006.01)
C23G 1/08 (2006.01) C01B 25/18 (2006.01)

(21) International Application Number:

PCT/IL2015/050405

(22) International Filing Date:

15 April 2015 (15.04.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/982,384 22 April 2014 (22.04.2014) US

(71) Applicant: GREEN FUTURE LTD. [IL/IL]; 50 Carmel Street, 7630550 Rehovot (IL).

(72) Inventors: SCHAPIRO, Reuben; 50 Carmel Street, 7630550 Rehovot (IL). BOIKO, Vladimir; 286/1 Rakefet Street, 83054 Kiryat Malachi (IL). SHAPIRO, Lev; 31A/6 Hashalom Street, 84473 Beer Sheva (IL).

(74) Agents: GUTTMANN, Thomas et al.; LUZZATTO & LUZZATTO, P.O. Box 5352, 8415202 Beer Sheva (IL).

(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, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, ST, 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, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

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

(54) Title: METHOD AND FORMULATIONS FOR REMOVING RUST AND SCALE FROM STEEL AND FOR REGENERATING PICKLING LIQUOR IN HOT-DIP GALVANIZATION PROCESS

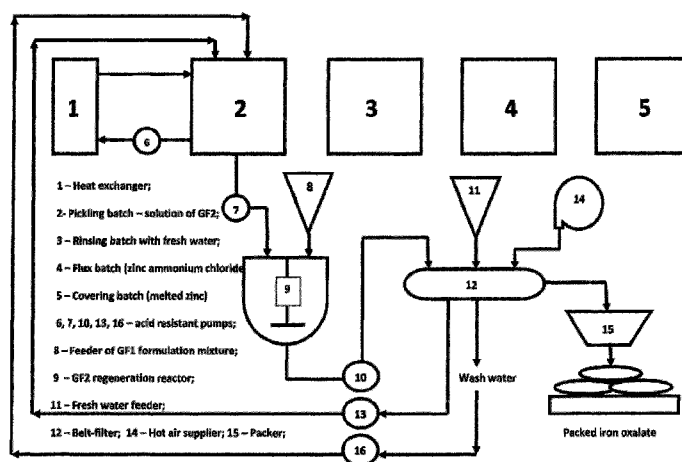


Fig.1

(57) Abstract: This invention provides a cost-effective hot-dip galvanization process for ferrous metals, which is regardful to the environment and to the health of the personnel.