



(51) International Patent Classification:

F23Q 9/00 (2006.01) *F23N 5/00* (2006.01)
F23Q 9/14 (2006.01) *F23G 7/08* (2006.01)

(21) International Application Number:

PCT/US2013/020732

(22) International Filing Date:

9 January 2013 (09.01.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

13/352,830 18 January 2012 (18.01.2012) US

(71) Applicant: HONEYWELL INTERNATIONAL INC.

[US/US]; Patent Services M/S AB/2B, 101 Columbia Road, P. O. Box 2245, Morristown, New Jersey 07962-2245 (US).

(72) Inventors: KRAUS, Kurt; Honeywell International Inc.,

Patent Services M/S AB/2B, 101 Columbia Road, P. O. Box 2245, Morristown, New Jersey 07962-2245 (US).
RICHMOND, Dusty; Honeywell International Inc., Patent

Services M/S AB/2B, 101 Columbia Road, P. O. Box 2245, Morristown, New Jersey 07962-2245 (US). JENNINGS, Jay; Honeywell International Inc., Patent Services M/S AB/2B, 101 Columbia Road, P. O. Box 2245, Morristown, New Jersey 07962-2245 (US). BIETTO, Stefano; Honeywell International Inc., Patent Services M/S AB/2B, 101 Columbia Road, P. O. Box 2245, Morristown, New Jersey 07962-2245 (US).

(74) Agent: BEATUS, Carrie; Honeywell International Inc., Patent Services M/S AB/2B, 101 Columbia Road, P. O. Box 2245, Morristown, New Jersey 07962-2245 (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, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ,

[Continued on next page]

(54) Title: A FLARE PILOT DETECTION AND IGNITION SYSTEM

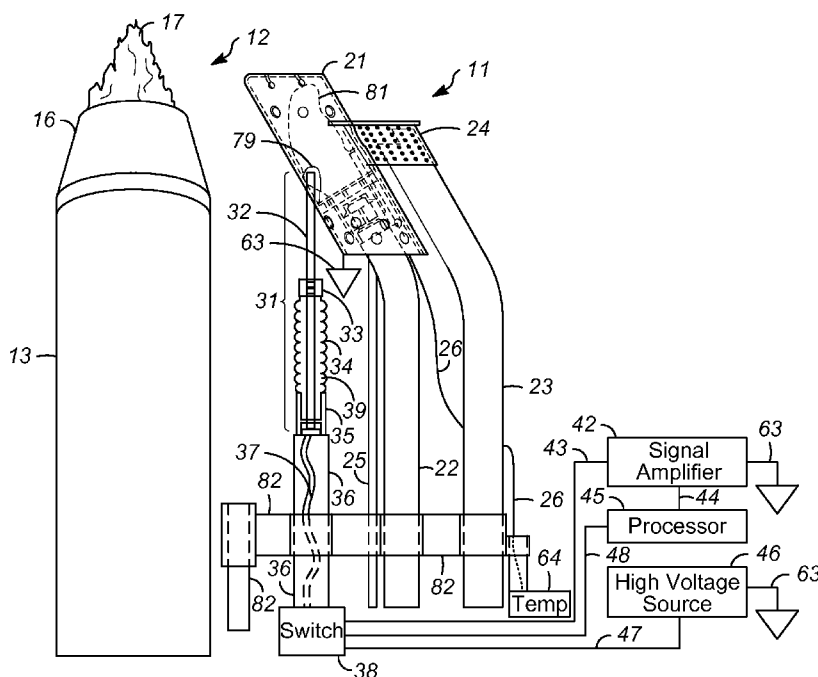


FIG. 1

(57) Abstract: A system having a flame rod assembly for operation in a high temperature pilot burner. The assembly is designed for operation in temperatures from about -40 to 1100 degrees C. The system may operate in inclement weather involving high speed winds and significant amounts of moisture and rain to hurricane storm force levels and rates. The system incorporates an electrical apparatus which may provide flame sensing and ignition via the flame rod assembly incorporating a quick drying insulator around a rod of the assembly to ensure proper operation of the electrical apparatus.



TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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

(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,

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))*