

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 November 2009 (19.11.2009)

PCT

(10) International Publication Number
WO 2009/139830 A2

(51) International Patent Classification:

F27B 7/06 (2006.01) *F27B 7/36* (2006.01)
F27B 7/08 (2006.01) *F27B 7/22* (2006.01)
F27B 7/20 (2006.01) *F27B 7/32* (2006.01)

(21) International Application Number:

PCT/US2009/002833

(22) International Filing Date:

7 May 2009 (07.05.2009)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/127,423 13 May 2008 (13.05.2008) US

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(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.

(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, MK, 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).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: OVERHUNG ROTARY TUBE FURNACE

(57) Abstract: A rotary tube furnace (1) comprising an insulated heating chamber (4), the insulated heating chamber having a product discharge outlet (21) and a process tube inlet (39), a heating element (14) operatively arranged to selectively heat the heating chamber, a generally horizontally extending process tube (2) supported for rotation relative to the heating chamber, the process tube having a first portion (36) generally arranged outside of the heating chamber and a cantilevered second portion (37) extending from the first portion into the heating chamber and terminating at a discharge end (38) within the heating chamber, a feed mechanism (40) configured and arranged to feed product into the process tube, and a bearing assembly operating between a support frame (34) and the first portion of the process tube and configured and arranged to support the process tube and transmit rotational torque to the process tube.



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