



(43) International Publication Date
20 February 2014 (20.02.2014)

(51) International Patent Classification:

F04B 39/00 (2006.01) *F16L 33/00* (2006.01)
F04B 39/12 (2006.01)

(21) International Application Number:

PCT/BR2013/000310

(22) International Filing Date:

16 August 2013 (16.08.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

BR 10 2012 020725 7

17 August 2012 (17.08.2012)

BR

(71) Applicant: **WHIRLPOOL S.A.** [BR/BR]; Avenida das Nações Unidas, 12.995 - 32° andar - Brooklin Novo, 04578-000 São Paulo - SP (BR).

(72) Inventors: **PUFF, Rinaldo**; Rua Jaó, 280 -, 89220-160 Joinville - SC (BR). **KNIES, Marcelo**; Rua Carlos Stiel, 260 -, 89216-570 Joinville - SC (BR). **ERZINGER, João**

Luiz; Rua Joaquina Schroeder, 163 -, 89204-740 Joinville - SC (BR). **LILIE, Dietmar Erich Bernhard**; Rua Orestes Guimarães, 904 -, 89204-060 Joinville - SC (BR).

(74) Agents: **ARNAUD, Antonio M.P.** et al.; Rua José Bonifácio, 93 - 9th floor, 01003-901 São Paulo - SP (BR).

(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, 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, 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, SZ, TZ,

[Continued on next page]

(54) Title: GAS DISCHARGE ARRANGEMENT FOR A REFRIGERATION COMPRESSOR

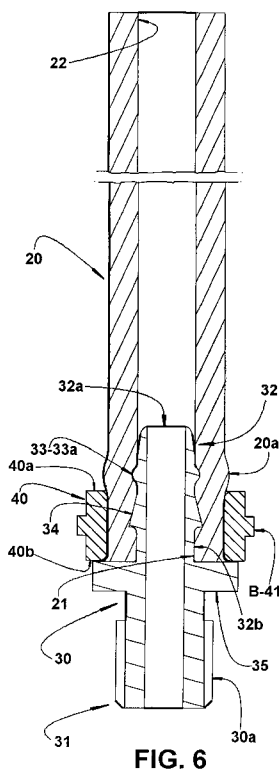


FIG. 6

(57) Abstract: The compressor comprises: a shell (1) carrying a gas outlet tube (1a) and housing a cylinder cap (10) having a gas outlet (13); and a plastic discharge tube (20) having an inlet end and an outlet end (21, 22) respectively coupled to the gas outlet (13) and to the gas outlet tube (1a), at least one of said inlet and outlet ends being connected to a discharge part, defined at the gas outlet (13) or at the gas outlet tube (1a), by a connecting element (30) having: a fixation portion (31), affixed inside the discharge part (1a, 13); an engaging portion (32) fitted inside one end of the discharge tube (20) and carrying a superficial indexing means (33) acting against the discharge tube (20); and gripping means (34) disposed between the indexing means (33) and the fixation portion (31); and a retaining ring (40) mounted around the discharge tube (20) for compressing the latter, in order to spike, therein, the gripping means (34).



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).

Published:

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