

(43) International Publication Date
31 January 2013 (31.01.2013)

- (51) International Patent Classification:
F25B 1/10 (2006.01) *F25B 49/02* (2006.01)
- (21) International Application Number:
PCT/US2012/048099
- (22) International Filing Date:
25 July 2012 (25.07.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
61/511,692 26 July 2011 (26.07.2011) US
- (71) Applicant (for all designated States except US): **CARRIER CORPORATION** [US/US]; 1 Carrier Place, Farmington, Connecticut 06034 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **GAN, Mingfei** [CN/US]; 4590 Red Fox Drive, Manlius, New York 13104-2433 (US). **LEE, KeonWoo** [KR/US]; 4754 Prestwick Drive, Manlius, New York 13104 (US). **HUFF,**

Hans-Joachim [DE/DE]; Taunusstrasse 5, 55118 Mainz (DE). **SHAPIRO, Aryn** [US/US]; 317 S. Clinton Street, Syracuse, New York 13202 (US). **LIU, Lucy Yi** [US/US]; 5003 Saddlebrook Drive, Fayetteville, New York 13066 (US). **HOFSDAL, Gilbert B.** [US/US]; 2381 Old Route 5, Chittenango, New York 13037 (US). **SUN, Jian** [CN/US]; 11 Signal Hill Road, Fayetteville, NY 13066 (US).

(74) Agent: **FOX, David A.**; CANTOR COLBURN LLP, 20 Church Street, 22nd Floor, Hartford, Connecticut 06103 (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, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM,

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(54) Title: STARTUP LOGIC FOR REFRIGERATION SYSTEM

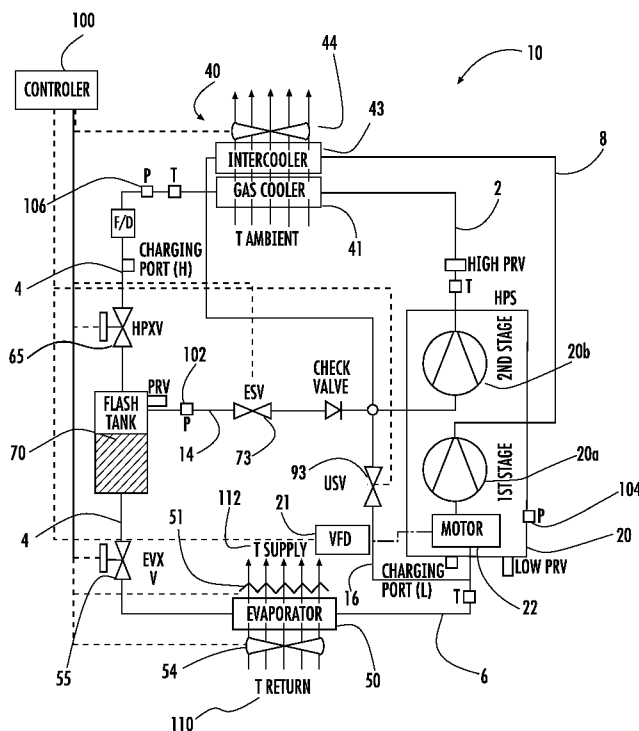


FIG. 1

(57) Abstract: A refrigeration system (10) includes a compressor (20) having a first stage (20a) and a second stage (20b); a heat rejecting heat exchanger (40) having a fan (44) drawing ambient fluid over the heat rejecting heat exchanger, the heat rejecting heat exchanger including an inter-cooler (43) and a gas cooler (41), the intercooler coupled to an outlet of the first stage and the gas cooler coupled to an outlet of the second stage; an unload valve (93) coupled to an outlet of the intercooler and a suction port of the first stage; a flash tank (70) coupled to an outlet of the gas cooler; a primary expansion device (55) coupled to an outlet of the flash tank; a heat absorbing heat exchanger (50) coupled to an outlet of the primary expansion device, an outlet of the heat absorbing heat exchanger coupled to the suction port of the first stage; and a controller (100) for executing a startup process.



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, 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, 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))
- of inventorship (Rule 4.17(iv))

Published:

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