



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁶:

F04B 39/12

A1

(11) International Publication Number:

WO 97/43547

(43) International Publication Date: 20 November 1997 (20.11.97)

(21) International Application Number:

PCT/BR97/00017

(22) International Filing Date:

7 May 1997 (07.05.97)

(30) Priority Data:

PI 9601662-0

10 May 1996 (10.05.96)

BR

(71) Applicant (for all designated States except US): EMPRESA BRASILEIRA DE COMPRESSORES S/A. EMBRACO [BR/BR]; Rua Rui Barbosa, 1020, CEP-89219-901 Joinville, SC (BR). - *pls follow forms for correct add.*

(72) Inventors; and

(75) Inventors/Applicants (for US only): TODESCAT, Márcio, Luiz [BR/BR]; Apartamento 504, Rua Jacob Eisehut, 265, CEP-89219-901 Joinville, SC (BR). LILIE, Dietmar, Erich, Bernhard [BR/BR]; Rua Orestes Guimarães, 904, CEP-89219-901 Joinville, SC (BR). FAGOTTI, Fabian [BR/BR]; Rua Franklin Roosevelt, 52, CEP-89219-901 Joinville, SC (BR).

(74) Agents: ARNAUD, Antonio, M., P. et al.; 7th floor, Rua José Bonifácio, 93, CEP-01003-901 São Paulo, SP (BR).

(81) Designated States: CN, JP, KR, SG, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: A SUCTION ARRANGEMENT FOR A RECIPROCATING HERMETIC COMPRESSOR

(57) Abstract

A suction arrangement for a reciprocating hermetic compressor, including a hermetic shell (21), comprising a suction inlet tube (28) for gas admission; a suction orifice (24a), which is provided at the head of a cylinder (22) disposed inside the shell (21) and which is in fluid communication with the suction inlet tube (28), said arrangement comprising a suction means (60) having a first end (61) and a second end (62), which are hermetically coupled to the suction inlet tube (28) and suction orifice (24a), respectively, in order to conduct low pressure gas from the suction inlet tube (28) directly to the suction orifice (24a), providing

thermal and acoustic insulation to the gas flow being drawn; and at least one pressure equalizing means (70), providing a predetermined fluid communication of the gas being drawn between the suction inlet tube (28) and the suction orifice (24a) into the shell (21), maintaining substantially unaltered the thermal and acoustic insulating characteristics of the suction means (60).

