

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 February 2003 (06.02.2003)

PCT

(10) International Publication Number
WO 03/010446 A1

(51) International Patent Classification⁷: **F16J 1/16**,
F04B 39/00

Rua Alberto Schweitzer, 54 -, CEP-89217-160 Joinville,
SP (BR).

(21) International Application Number: PCT/BR02/00103

(74) Agent: ARNAUD, Antonio, M., P.; Rua José Bonifácio,
93 - 7° and 8° floors -, CEP-01003-901 São Paulo, SP (BR).

(22) International Filing Date: 24 July 2002 (24.07.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PI 0104001-4 25 July 2001 (25.07.2001) BR

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BY, BZ, CA, CH, CN, CO, CR, CU, CZ,
DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZM, ZW.

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

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK,
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

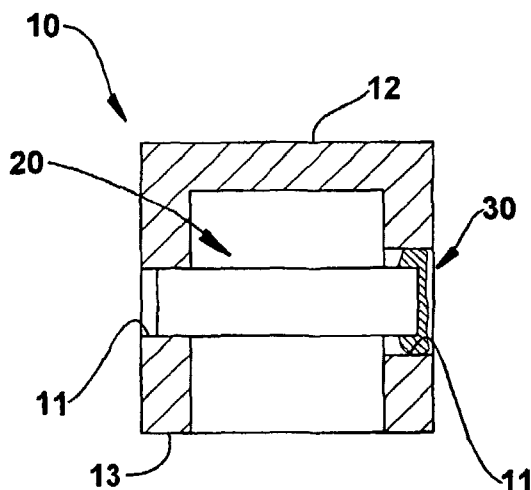
(75) Inventors/Applicants (*for US only*): **LILIE, Dietmar,
Erich, Bernhard** [BR/BR]; Rua Orestes Guimarães,
904, CEP-89204-060 Joinville, SC (BR). **KLEIN, Fábio,
Henrique** [BR/BR]; Rua Max Colin, 1214 - Apt. 1003,
CEP-89204-040 Joinville, SC (BR). **POSSAMAI, Fabrício,
Caldeira** [BR/BR]; Rua Jaguaruna, 207 - Apt. 602,
CEP-89201-450 Joinville, SC (BR). **SEIBEL, Hugo,
Renato** [BR/BR]; Rua Desembargador Nelson Nunes
Guimarães, 811 - Apt. 302 -, CEP-89203-060 Joinville,
SC (BR). **PEREIRA FILHO, Ivan, da Costa** [BR/BR];
Rua Água Marinha, 540 - Apt. 504A -, CEP-89221-220
Joinville, SC (BR). **TODESCAT, Márcio, Luiz** [BR/BR];

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: MOUNTING ARRANGEMENT FOR THE PISTON OF A RECIPROCATING HERMETIC COMPRESSOR



(57) Abstract: A mounting arrangement for the piston of a reciprocating hermetic compressor, comprising: a cylinder (1), inside which is defined a compression chamber (C); and a piston (10) provided with a pair of radial holes (11), each lodging and retaining one end of a pin (20), to which is coupled a driving mechanism of the compressor to reciprocate the piston (10) inside the cylinder (1), said radial holes (11) being completely sealed in relation to the radial gaps (15) of the bearing surfaces (10a, 10b) of the piston (10), so that both radial gaps (15) operate as means for restraining the leakage of refrigerant gas outwardly and inwardly in relation to the compression chamber (C).



WO 03/010446 A1