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(11) Publication number:

0 505 805 A3

(12)

EUROPEAN PATENT APPLICATION(21) Application number: **92103968.1**(51) Int. Cl.⁵: **F04B 39/12**(22) Date of filing: **09.03.92**(30) Priority: **28.03.91 US 676959**(43) Date of publication of application:
30.09.92 Bulletin 92/40(84) Designated Contracting States:
DE FR GB IT(88) Date of deferred publication of the search report:
25.11.92 Bulletin 92/48(71) Applicant: **TECUMSEH PRODUCTS COMPANY**
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Friedenstrasse 10
W-7920 Heidenheim(DE)(54) **Integral suction system.**

(57) A gas flow system for a hermetic compressor (10) is described which reduces the transfer of heat from the cylinder head (54) and the hot discharge gases along with other hot internal compressor parts, wherein a separately formed suction tube (58) is made from a low thermal conductivity plastic and is adapted to be received in a separately formed cylinder head (54). The cylinder head (54) includes discharge chambers (64, 65) formed integrally therein but is adapted to receive the suction tube (58), while the suction tube (58) includes a conduit (90) defining a suction plenum (90) having a suction inlet (92) and adjutages (98, 99) extending transverse to the conduit (90) which extend to the valve plate (44) and communicate with openings in the cylinder head (54) in order that the refrigerant flowing therein bypass the hot cylinder head (54) and flows directly into the cylinder (32, 33). The gas flow system also provides cooling for the motor (20) in which a part of the refrigerant which flows into the suction tube (58) is directed through the motor (20). Grooves (80, 81, 82) formed in the cylinder head walls accommodate O-rings (84, 85, 86) that allow a press fit of the suction tube (58) onto the cylinder head (54).

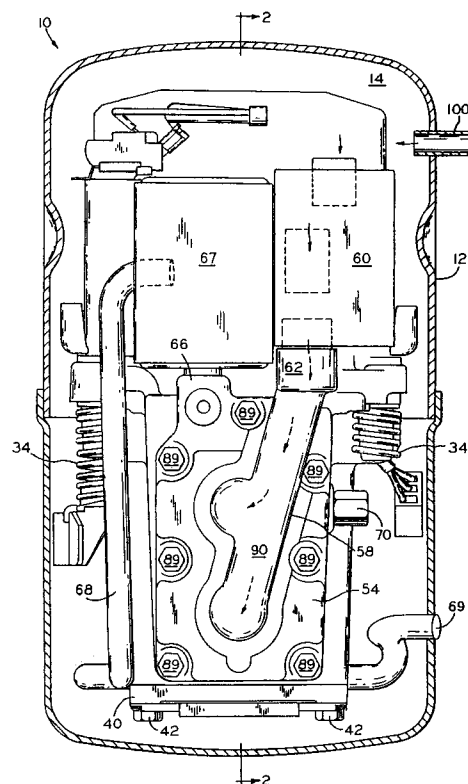


FIG. 1

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EUROPEAN SEARCH REPORT

Application Number

DOCUMENTS CONSIDERED TO BE RELEVANT			EP 92103968.1
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	PATENT ABSTRACTS OF JAPAN, unexamined applications, M field, vol. 9, no. 213, August 30, 1985 THE PATENT OFFICE JAPANESE GOVERNMENT page 151 M 408 * Kokai-no. 60-73 072 (TOSHIBA) * & JP-A-60-73 072 (TOSHIBA) --	1,6	F 04 B 39/12
A	DE - A - 2 951 463 (COPELAND) * Totality * --	1,6	
A	US - A - 4 487 555 (OHINATA) * Totality * ----	1,6	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F 04 B 35/00 F 04 B 39/00 F 25 B 1/00 F 25 B 31/00
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 31-08-1992	Examiner WERDECKER
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	