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(11)

EP 1 384 887 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
21.07.2004 Bulletin 2004/30

(51) Int Cl.7: **F04B 27/08, F04B 27/10**

(43) Date of publication A2:
28.01.2004 Bulletin 2004/05

(21) Application number: **03024463.6**

(22) Date of filing: **08.05.1996**

(84) Designated Contracting States:
DE FR IT

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(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
96913701.7 / 0 838 590

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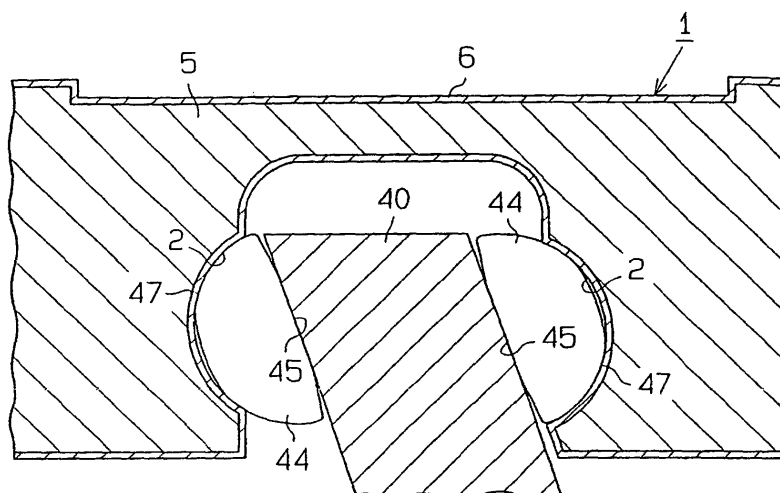
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(54) **Reciprocating compressor**

(57) A compressor comprising: a cylinder block (30,31) containing a cylinder bore (41,42); a drive shaft (39) rotatably supported by the cylinder block; a cam (40,48) attached to the drive shaft to be rotatable integrally therewith; a piston (1,43) housed in the cylinder bore; and a shoe (7,44) having a spherical and flat sliding surface and slidably interposed between the piston

and the cam; the piston being reciprocated via the shoe as the cam is rotated; the piston being made of an aluminum or aluminum alloy matrix and having a receiving portion (2,46) for slidably receiving the spherical surface (8,47) of the shoe therein, characterized in that the shoe is made of a ferrous metal matrix and a coating layer containing tin as a major component is formed at the receiving recess of the piston.

Fig.1



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EUROPEAN SEARCH REPORT

Application Number
EP 03 02 4463

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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A	US 5 056 417 A (KATO MASAFUMI ET AL) 15 October 1991 (1991-10-15) * column 2, line 13 - column 7, line 39; figures 1-5 *	1-9	
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Place of search THE HAGUE		Date of completion of the search 2 June 2004	Examiner Ingelbrecht, P
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	

EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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