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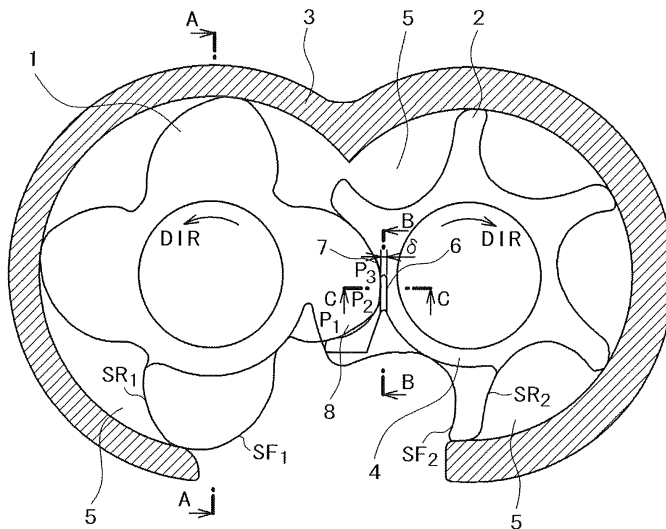
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(54) **Oil free screw compressor**

(57) An oil free screw compressor comprises: a pair of male and female screw rotors (1,2) in which two or more twisted teeth are formed; a casing (3) which receives both the rotors (1,2) and in which a suction port and a discharge port are formed; and bearings (11-14) which rotatably support shaft end parts of both the rotors (1,2) and are held in the casing (3). There is provided a

slot (6), next to the discharge port of the casing (3), which comes into communication with the discharge port with timing where a volume of a compression chamber formed by both the rotors (1,2) and the casing (3) becomes substantially zero as both the rotors (1,2) rotate, to prevent problems such as excessive compression.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number
EP 10 16 4131

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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Y	----- US 4 560 333 A (FUJIWARA MITSURU [JP] ET AL) 24 December 1985 (1985-12-24) * figure 3 *	1-5	
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			TECHNICAL FIELDS SEARCHED (IPC)
			F04C
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 8 April 2014	Examiner Grilli, Muzio
CATEGORY OF CITED DOCUMENTS		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	
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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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08-04-2014

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82