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(54) **Volume regulating structure for rotary helical screw compressors**

(57) A volume regulating structure for a rotary helical screw compressor includes a housing, a male-female rotor pair, a slide valve, and an extending support. The housing is provided, inside, with a rotor chamber and a slide valve chamber which are opening at the discharge surface of the housing. The extending support is fixed on

the discharge surface of the housing, and that an inner profile of the extending support is aligned with two lower-half arcs of an opening profile of the slide valve chamber. Accordingly, part of the slide valve moved out of the housing can be supported by the extending support so as to reduce shocking of the slide valve effectively.

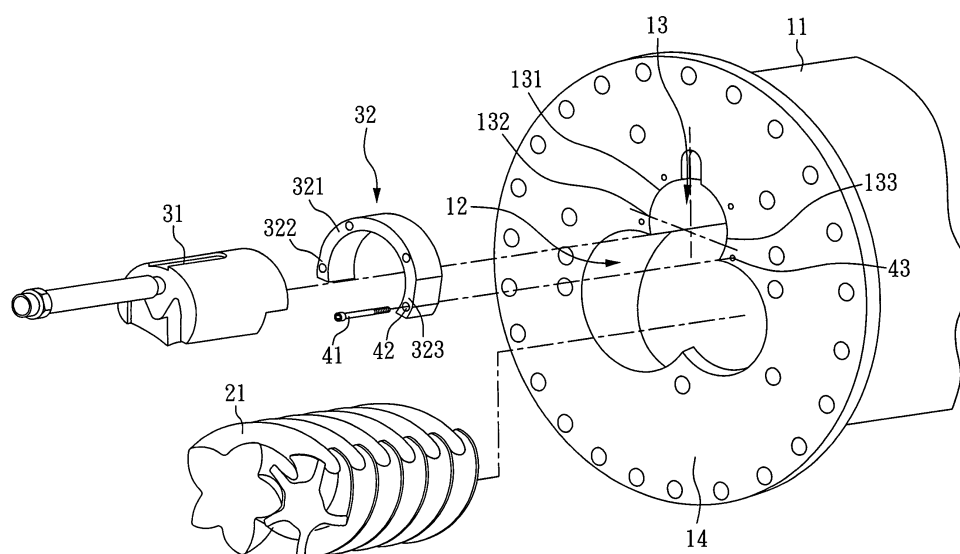


FIG. 4



EUROPEAN SEARCH REPORT

Application Number
EP 08 25 0657

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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			TECHNICAL FIELDS SEARCHED (IPC)
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 30 July 2010	Examiner Ingelbrecht, Peter
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			

2
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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