

Title (en)  
SCREW COMPRESSOR

Title (de)  
SCHRAUBENVERDICHTER

Title (fr)  
COMPRESSEUR À VIS

Publication  
**EP 3842641 A1 20210630 (EN)**

Application  
**EP 18930891 A 20180823**

Priority  
JP 2018031152 W 20180823

Abstract (en)  
A screw compressor includes: a casing that forms an outer shell of the screw compressor; a screw shaft provided in the casing and provided to be rotated by driving; a screw rotor fixed to the screw shaft and having spiral tooth grooves formed in an outer circumferential surface of the screw rotor; a gate rotor having a plurality of gate-rotor teeth that fit in the spiral tooth grooves of the screw rotor, the gate rotor defining together with the casing and the screw rotor, a compression chamber; a slide valve provided in a slide groove formed in an inner cylindrical surface of the casing, and also provided slidable in a direction along a rotation axis of the screw rotor; and a bearing housing including an internal bearing that supports one end portion of the screw shaft in such a manner as to allow the end portion of the screw shaft to be rotated. A raised surface portion is formed at an outer circumferential surface of the bearing housing and protrudes toward a slide surface of the slide valve.

IPC 8 full level  
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CPC (source: EP)  
**F04C 18/52** (2013.01); **F04C 28/12** (2013.01); **F04C 2230/21** (2013.01); **F04C 2240/30** (2013.01); **F04C 2240/40** (2013.01); **F04C 2240/50** (2013.01)

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