

Title (en)
SCREW COMPRESSOR

Title (de)
SCHRAUBENVERDICHTER

Title (fr)
COMPRESSEUR À VIS

Publication
EP 3842641 B1 20231122 (EN)

Application
EP 18930891 A 20180823

Priority
JP 2018031152 W 20180823

Abstract (en)
[origin: EP3842641A1] 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)
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