

Title (en)
SCREW COMPRESSOR

Title (de)
SCHRAUBENVERDICHTER

Title (fr)
COMPRESSEUR À VIS

Publication
EP 2732165 B1 20180404 (DE)

Application
EP 12728244 A 20120614

Priority
• DE 102011051730 A 20110711
• EP 2012061356 W 20120614

Abstract (en)
[origin: WO2013007470A1] In order to improve a screw compressor comprising a screw compressor housing having a screw rotor housing, having screw rotor bores arranged in the screw rotor housing, having screw rotors which are arranged in the screw rotor bores and mounted in the screw rotor housing such that they can rotate about rotation axes, having a drive for the screw rotors and having a slide which is guided in a displaceable manner in a slider receptacle in the screw rotor housing and is adjacent in some regions to the screw rotors with end faces, for setting a volume ratio of the screw compressor, which extends starting from an insertion space of the slide receptacle in a guide trough of the slide receptacle which is open towards the screw rotor bores towards a high-pressure outlet and which can be positioned in a first position and a second position, wherein in one of the positions the volume ratio of the screw compressor is greater than in the other of the positions, in such a manner that the screw compressor requires as little installation space as possible for the actuation of the slide, it is proposed for the slide to be connected to a first cylinder element which is arranged at least partially in the insertion space and interacts with a second cylinder element which is arranged at least partially in the insertion space, and for the cylinder elements to be arranged one after the other in the displacement direction on the slide on a side of the slide which is opposite the high-pressure outlet.

IPC 8 full level
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CPC (source: EP US)
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F04C 28/12 (2013.01 - EP US); **F04C 28/125** (2013.01 - EP US); **F04C 29/0007** (2013.01 - US)

Citation (examination)
WO 2004051089 A1 20040617 - BITZER KUEHLMASCHINENBAU GMBH [DE], et al

Cited by
CN109058115A; WO2020056982A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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EP 2732165 B1 20180404; US 10030653 B2 20180724; US 2014127067 A1 20140508; WO 2013007470 A1 20130117

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