

Title (en)
SCREW COMPRESSOR

Title (de)
SCHRAUBENVERDICHTER

Title (fr)
COMPRESSEUR À VIS

Publication
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Application
EP 16714450 A 20160406

Priority
EP 2016057534 W 20160406

Abstract (en)
[origin: WO2017174130A1] Screw compressor comprising a compressor housing (12) with a screw rotor chamber which is arranged therein, two screw rotors (26, 28) which are arranged in the screw rotor chamber, are mounted such that they can be rotated in each case about a screw rotor axis on the compressor housing (12), and engage into one another by way of the screw contours thereof, and two control slides (52, 54) which are arranged in a slide channel (56) of the compressor housing so as to lie behind one another in a displacement direction which runs parallel to the screw rotor axis, adjoin the two screw rotors with slide compression wall surfaces, and can be moved in the displacement direction, wherein the first control slide (52) and the second control slide (54) can be moved, in a composite position with end sides which face one another, in the displacement direction in a manner which is joint and terminates sealingly with one another, and can be positioned at a spacing from one another in a separated position with the formation of an intermediate space, wherein the control slides form an inflow chamber (198) at least in a transition position which lies between the composite position and the separated position, into which inflow chamber (198) the medium to be compressed flows from one of the compression chambers, by virtue of the fact that it passes between the end sides of the control slides which face one another, and wherein one of the control slides is provided with at least one outflow outlet (212) which adjoins the inflow chamber and through which the medium from the inflow chamber (198) enters into an outflow opening (144) on the slide channel (56), which outflow opening (144) overlaps with the outflow outlet in said transition position.

IPC 8 full level
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