Title (en)

#### SCREW COMPRESSOR

Title (de)

SCHRAUBENVERDICHTER

Title (fr)

COMPRESSEUR À VIS

Publication

## EP 3859159 B1 20240327 (DE)

Application

### EP 21163537 A 20160406

Priority

- EP 21163537 A 20160406
- EP 16714450 A 20160406
- 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, into which inflow chamber (198) the medium to be compressed flows from 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

F04C 28/12 (2006.01); F04C 18/16 (2006.01)

# CPC (source: EP RU US)

F04C 18/023 (2013.01 - US); F04C 18/16 (2013.01 - EP RU US); F04C 28/12 (2013.01 - EP RU US); F04C 28/185 (2013.01 - US)

## Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2017174130 A1 20171012**; CN 109072919 A 20181221; CN 109072919 B 20200512; EP 3440358 A1 20190213; EP 3440358 B1 20210324; EP 3440358 B9 20220323; EP 3859159 A1 20210804; EP 3859159 B1 20240327; RU 2713784 C1 20200207; US 11286935 B2 20220329; US 2019032661 A1 20190131

## DOCDB simple family (application)

**EP 2016057534 W 20160406**; CN 201680083867 A 20160406; EP 16714450 A 20160406; EP 21163537 A 20160406; RU 2018138285 A 20160406; US 201816152019 A 20181004