

Title (en)

A screw compressor incorporating a slide valve.

Title (de)

Schraubenverdichter mit Schieber.

Title (fr)

Compresseur volumétrique à vis comportant un tiroir.

Publication

EP 0162157 A1 19851127 (EN)

Application

EP 84303436 A 19840521

Priority

EP 84303436 A 19840521

Abstract (en)

A slide valve type screw compressor having a slide valve (31) with a surface of chevron shape in section consisting of a couple of arcuately curved surfaces forming part of the inner wall surfaces of a rotor chamber (8) accommodating a pair of intermeshed male and female screws (6, 5) the slide valve (31) being slidable in the axial direction of the rotors for communicating the rotor chamber with a suction port (11) through an opening with an adjustably variable area for volumetric control of the compressor, characterized in that: the slide valve (31) is retractably protruded into a suction casing at a fore end on the side of the suction port and has the opposite outer corner portions of the curved surfaces cut off at a predetermined angle with the longitudinal axis thereof to provide a substantially triangular section with a forwardly reduced width at the protruded fore end.

IPC 1-7

F04C 29/10; **F04C 18/16**

IPC 8 full level

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

CPC (source: EP)

F04C 28/125 (2013.01)

Citation (search report)

- [A] DE 3221849 A1 19831215 - AERZENER MASCHF GMBH [DE]
- [A] DE 1118800 B 19611207 - SVENSKA ROTOR MASKINER AB
- [A] FR 1258651 A 19610414 - SVENSKA ROTOR MASKINER AB
- [A] FR 2279951 A1 19760220 - DUNHAM BUSH INC [US]

Cited by

CN106164490A; FR2722425A1; DE4007217A1; DE4007217C2; WO2016156756A1; US6176695B1; WO9835136A1

Designated contracting state (EPC)

DE FR GB SE

DOCDB simple family (publication)

EP 0162157 A1 19851127; **EP 0162157 B1 19880810**; DE 3473326 D1 19880915

DOCDB simple family (application)

EP 84303436 A 19840521; DE 3473326 T 19840521