

Title (en)  
ROTARY HELICAL SCREW-TYPE COMPRESSOR

Title (de)  
SCHRAUBENKOMPRESSOR

Title (fr)  
COMPRESSEUR A VIS

Publication  
**EP 1163451 A1 20011219 (DE)**

Application  
**EP 00916927 A 20000310**

Priority  
• DE 29904410 U 19990310  
• EP 0002152 W 20000310

Abstract (en)  
[origin: US6488488B2] The drive gear 19, 21 and the synchronizing gear 25, 27 for the two rotors 9,11 of a screw compressor are both located at the pressurized end of the rotor housing 3. At the suction end of the rotor housing 3 is only the bearing 53 for the suction side shaft journal 55, 57 that is free of oil lubrication. Inlet openings 13 in a suction side inlet housing are located in such a way that the intake air cools the oil-free shaft bearing 53. Each shaft journal has a tool interface 63 accessible through the inlet housing on which to attach a rotating tool. The inlet housing 4 can be removed from the shaft journal 55, 57 together with the bearing 53 and seal 87, for example to exchange the bearing, without having to remove the rotors 9, 11 or without throwing off their adjustment.

IPC 1-7  
**F04C 18/16**; **F04C 29/06**; **F04C 29/00**; **F04C 29/04**

IPC 8 full level  
**F01C 21/02** (2006.01); **F04C 18/16** (2006.01); **F04C 29/00** (2006.01); **F04C 29/04** (2006.01); **F04C 29/06** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP US)  
**F01C 21/02** (2013.01 - EP US); **F04C 18/16** (2013.01 - EP US); **F04C 29/0092** (2013.01 - EP US); **F04C 29/04** (2013.01 - EP US); **F04C 29/065** (2013.01 - EP US); **F04C 29/068** (2013.01 - EP US); **F04C 29/12** (2013.01 - EP US)

Cited by  
DE202007005097U1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**US 2002048521 A1 20020425**; **US 6488488 B2 20021203**; AT E267343 T1 20040615; DE 29904410 U1 20000720; DE 50006495 D1 20040624; EP 1163451 A1 20011219; EP 1163451 B1 20040519; WO 0053930 A1 20000914

DOCDB simple family (application)  
**US 95032301 A 20010910**; AT 00916927 T 20000310; DE 29904410 U 19990310; DE 50006495 T 20000310; EP 0002152 W 20000310; EP 00916927 A 20000310