

Title (en)
WORM-DRIVE COMPRESSOR

Title (de)
SCHRAUBENVERDICHTER

Title (fr)
COMPRESSEUR A VIS

Publication
EP 0828940 B1 20010816 (DE)

Application
EP 96916081 A 19960515

Priority
• DE 19519247 A 19950525
• EP 9602078 W 19960515

Abstract (en)
[origin: US6093008A] PCT No. PCT/EP96/02078 Sec. 371 Date Nov. 19, 1997 Sec. 102(e) Date Nov. 19, 1997 PCT Filed May 18, 1996 PCT Pub. No. WO96/37706 PCT Pub. Date Nov. 28, 1996The invention relates to a worn-rive compressor (10) with a main rotor shaft (18) on which are fitted at least one first and one second main rotor (14, 16), each of which meshes with a matching first or second sub-rotor (20, 22) on a rotor layshaft (24). To provide a hard-wearing, economically produced and highly efficient worm-drive compressor (10), the hearings of the rotor main and layshafts (18, 24) are matched to the compressed gas supply in such a way that the loads imposed on the shafts by the pressures produced are absorbed by radially operating bearings (40, 42, 44, 47) near the point at which they arise.

IPC 1-7
F04C 18/16; **F04C 23/00**

IPC 8 full level
F04C 18/16 (2006.01); **F04C 23/00** (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP US)
F04C 18/16 (2013.01 - EP US); **F04C 23/001** (2013.01 - EP US); **F04C 29/0021** (2013.01 - EP US); **F04C 2240/51** (2013.01 - EP US)

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

DOCDB simple family (publication)
US 6093008 A 20000725; AT E204362 T1 20010915; DE 19519247 A1 19961128; DE 19519247 C2 20000831; DE 59607504 D1 20010920; EP 0828940 A1 19980318; EP 0828940 B1 20010816; JP H11505911 A 19990525; WO 9637706 A1 19961128

DOCDB simple family (application)
US 97316797 A 19971119; AT 96916081 T 19960515; DE 19519247 A 19950525; DE 59607504 T 19960515; EP 9602078 W 19960515; EP 96916081 A 19960515; JP 53533796 A 19960515