

Title (en)
SCREW COMPRESSOR-EXPANDER MACHINE

Title (de)
SCHRAUBENVERDICHTER-ENTSPANNERMASCHINE

Title (fr)
COMPRESSEUR-EXTENSEUR A VIS

Publication
EP 1502007 A1 20050202 (EN)

Application
EP 03722804 A 20030430

Priority
• GB 0301864 W 20030430
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Abstract (en)
[origin: WO03093649A1] A plural screw compressor-expander machine has a casing (10) in the interior of which are mounted intermeshing helical rotors (11 and 12). The rotors (11 and 12) are supported at each end in bearings in the end walls of the casing. The interior of the casing is divided by a transverse partition (14) into a relatively longer compressor portion (1) and a shorter expander portion (5). The higher pressure ports (16, 18) of the compressor and expander portions are adjacent the partition, on opposite sides of a plane through the rotor axes. Similarly, the lower pressure ports (15, 17) are on opposite sides of the plane through the rotor axes but adjacent the end walls. This arrangement reduces the loads on the bearings of the rotors.

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CPC (source: EP US)
F01C 1/16 (2013.01 - EP US); **F01C 11/004** (2013.01 - EP US); **F01C 21/003** (2013.01 - EP US); **F01C 21/108** (2013.01 - EP US); **F04C 18/084** (2013.01 - EP US); **F25B 2309/061** (2013.01 - EP US)

Citation (search report)
See references of WO 03093649A1

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