Title (en)

## SCREW ROTORS TYPE MACHINE

Title (de)

SCHRAUBENKOLBENMASCHINE

Title (fr)

MACHINE DU TYPE A ROTOR A VIS

Publication

## EP 0627041 B1 19990929 (EN)

Application

## EP 93904233 A 19930219

Priority

• GB 9203521 A 19920219

• GB 9300349 W 19930219

Abstract (en)

[origin: WO9317223A1] A rotary positive displacement machine for operation both as a compressor and an expander comprises a casing (6) housing intermeshing male and female rotors (2, 3), the casing (6) including a fluid inlet and a fluid discharge for fluid to be compressed or expanded, and drive means (9, 10) enabling driving of the rotors (2, 3) separately from each other so that the machine can operate as a dry machine. The rotors (2, 3) intermesh via lobes (4, 5) whose profiles are produced by a co-generation process, the male lobe (4) having a symmetric transverse profile of varying curvature while the opposite flanks (5L, 5T) of the female lobe (5) are generally concave but with a substantially straight portion at the tip arranged such that each female lobe (5) diverges at the tip. The machine enables leakage blow holes to be reduced both for the compressing and expansion modes of operation.

IPC 1-7

## F01C 1/08

IPC 8 full level

F01C 1/08 (2006.01)

CPC (source: EP) **F01C 1/084 (2013.01)** 

Cited by

US8328542B2; US7530217B2; US7726115B2; US7854111B2; US8708643B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 9317223 A1 19930902; DE 69326606 D1 19991104; DE 69326606 T2 20000504; EP 0627041 A1 19941207; EP 0627041 B1 19990929; GB 9203521 D0 19920408

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