

Title (en)
A rotary positive displacement fluid machine

Title (de)
Umlaufende Verdrängungsmaschine

Title (fr)
Machine rotatif à déplacement positif

Publication
EP 0790389 A1 19970820 (EN)

Application
EP 97830064 A 19970214

Priority
IT BO960066 A 19960214

Abstract (en)
A fluid machine includes: a casing (1) with internal cavity (2), and axis (3), about which the cavity (2) is symmetrical and two sections (4, 4a), respectively for the infeed into and discharge from the cavity (2) of the fluid; a pair of vanes (5, 6), positioned in the cavity (2) in such a way that they divide it into a corresponding pair of separate chambers (7, 8) designed to alternately receive and discharge the fluid. The vanes (5, 6) are mounted in the casing (1): in such a way that they can turn about the axis (3), and independently, so that one (5, 6) moves relative to the other (6, 5) to cause a corresponding variation in the volumes of the chambers (7, 8) between them. The machine (20) includes drive means (21, 12a, 12b, 14a, 14b) designed to cause the vanes (5, 6) to turn at a cyclically variable speed, and being timed differently for each of the vanes (5, 6) so as to cause variations in the volumes of the chambers (7, 8) suited to the changes in state of the fluid. <IMAGE> <IMAGE>

IPC 1-7
F01C 1/077

IPC 8 full level
F01C 1/077 (2006.01)

CPC (source: EP)
F01C 1/077 (2013.01)

Citation (search report)
• [X] WO 8605548 A1 19860925 - VENTURELLI GIACOMO [IT], et al
• [X] EP 0062087 A1 19821013 - ROEDIGER GERHARD [DE], et al
• [X] US 3398643 A 19680827 - HANS SCHUDT
• [X] FR 2244367 A6 19750411 - BOES JEAN [FR]

Cited by
WO0079102A1

Designated contracting state (EPC)
DE ES FR GB GR IT PT

DOCDB simple family (publication)
EP 0790389 A1 19970820; IT 1285896 B1 19980626; IT BO960066 A0 19960214; IT BO960066 A1 19970814

DOCDB simple family (application)
EP 97830064 A 19970214; IT BO960066 A 19960214