

Title (en)
Scroll fluid displacement machine

Title (de)
Spiralverdrängungsmaschine

Title (fr)
Machine a déplacement de fluide du type scroll

Publication
EP 0882893 A2 19981209 (FR)

Application
EP 98401316 A 19980602

Priority
FR 9706966 A 19970605

Abstract (en)
The scroll machine consists of fixed (2) and mobile (4) discs with interacting spiral surfaces (3, 5), a rotary drive (11, 16, 22, 23) for the mobile disc, and a friction system with interacting shoes and stops (25, 26). On the opposite side to the moving disc the fixed disc is connected to a fixed central shaft (7) attached to a frame (1) and having a central feed channel (8). The central shaft is surrounded by a seal bellows (12) which is connected at one end to the frame (1) and at the other to a coupling flange (10). The flange is joined to the periphery of the mobile disc outside its spiral surface to form a housing enclosing the fixed disc, and the space between the bellows and central shaft forms a suction channel.

IPC 1-7
F04C 18/02; F04C 29/00; F04C 27/00

IPC 8 full level
F04C 18/02 (2006.01); **F04C 27/00** (2006.01); **F04C 29/00** (2006.01); **F04C 23/00** (2006.01)

CPC (source: EP US)
F04C 18/0215 (2013.01 - EP US); **F04C 27/009** (2013.01 - EP US); **F04C 29/0021** (2013.01 - EP US); **F04C 29/0057** (2013.01 - EP US); **F04C 23/008** (2013.01 - EP US)

Cited by
FR3044348A1; DE10031142A1; DE10031142B4; DE10031141A1; DE10031141B4

Designated contracting state (EPC)
CH DE GR IT LI

DOCDB simple family (publication)
EP 0882893 A2 19981209; **EP 0882893 A3 19990224**; **EP 0882893 B1 20030423**; DE 69813672 D1 20030528; DE 69813672 T2 20040304; FR 2764346 A1 19981211; FR 2764346 B1 19990730; JP 4160161 B2 20081001; JP H1150980 A 19990223; US 6050793 A 20000418

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EP 98401316 A 19980602; DE 69813672 T 19980602; FR 9706966 A 19970605; JP 15807598 A 19980605; US 9015998 A 19980604