

Title (en)
Scroll type machine

Title (de)
Spiralmaschine

Title (fr)
Machine du type scroll

Publication
EP 0882892 A1 19981209 (FR)

Application
EP 98401314 A 19980602

Priority
FR 9706965 A 19970605

Abstract (en)
The scroll machine comprises a fixed disc (5) with a spiral working face (6) and a mobile disc (7) with a spiral working face (8) and a drive to rotate it. It has a sealing bellows (15) connected at one end to a component (14) which rotates with the mobile disc and at the other to a fixed part of the machine, and designed to separate the fluid circuit from the mechanical drive components. The fixed disc is connected on its side opposite the mobile disc to a central fixed shaft (10) with a feed channel (11). The shaft is surrounded by the bellows, with the space between it and the shaft forming a suction duct, while a main hollow rotary shaft (19) surrounds the bellows and is supported by one or more bearings (23, 24). One end of the main shaft has an eccentric circular bore which co-operates with a drive member linked to the mobile disc, and the drive incorporates an electric motor rotor (25) which is connected to the outside of the main shaft (19), and a fixed stator (26) surrounding the rotor.

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

IPC 8 full level
F04C 25/02 (2006.01); **F04C 18/02** (2006.01); **F04C 27/00** (2006.01); **F04C 29/00** (2006.01); **F04C 23/00** (2006.01)

CPC (source: EP US)
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Citation (applicant)
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• US 3817664 A 19740618 - HATFIELD E, et al
• EP 0428729 A1 19910529 - ZEXEL CORP [JP], et al

Citation (search report)
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• [A] FR 2736999 A1 19970124 - CENTRE NAT RECH SCIENT [FR]
• [A] FR 1210922 A 19600311 - ALSACIENNE CONSTR MECA
• [A] US 4677949 A 19870707 - YOUTIE ROBERT K [US]

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