

Title (en)
Scroll fluid displacement machine

Title (de)
Spiralverdrängungsmaschine

Title (fr)
Machine à spirales de déplacement de fluide

Publication
EP 0825331 A1 19980225 (EN)

Application
EP 97306186 A 19970814

Priority
US 70061896 A 19960816

Abstract (en)
A scroll fluid displacement machine that produces thrust loads during operation such as an oil-less compressor, includes a housing (14), a scroll (12) fixed to the housing and having an involute (16), an orbiting scroll (20) having an involute (22) interengaging the other involute and mounted on an eccentric drive shaft (42). The drive shaft (42) moves the orbiting scroll member through a predetermined path relative to the fixed scroll and the machine includes a bearing (60a,b) for supporting the orbiting scroll and counteracting axial thrust present during operation of the machine. The bearing (60a,b) is mounted at one end of the drive shaft (42). The machine incorporates means for achieving a desired alignment and clearance between the two involutes (16,22). <IMAGE>

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F01C 1/02

IPC 8 full level
F01C 21/10 (2006.01)

CPC (source: EP)
F01C 21/102 (2013.01); **F04C 2230/602** (2013.01)

Citation (search report)
• [Y] US 5391065 A 19950221 - WOLVERTON STEVEN R [US], et al
• [YA] WO 9527143 A1 19951012 - PURITAN BENNETT CORP [US], et al
• [A] DE 4100328 A1 19910718 - TOYODA AUTOMATIC LOOM WORKS [JP]
• [A] WO 9521329 A1 19950810 - GRENCI CHARLES [US], et al

Designated contracting state (EPC)
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