

Title (en)

Oldham coupling mechanism of scroll-type fluid displacement apparatus

Title (de)

Oldham Kupplungseinrichtung für Spiralverdrängungsanlage

Title (fr)

Dispositif d'accouplement du type Oldham pour appareil de déplacement de fluides à spirales

Publication

**EP 0851124 A1 19980701 (EN)**

Application

**EP 97122951 A 19971229**

Priority

JP 34946396 A 19961227

Abstract (en)

In a scroll-type fluid displacement apparatus, an orbiting scroll has a first and a second grooves formed on a second surface of a second circular end plate, so that the grooves are diametrically opposed to each other. An Oldham coupling is disposed between the orbiting scroll and the housing for preventing the rotation of the orbiting scroll during orbital motion thereby The Oldham coupling has a pair of engaging portions formed thereon for slidably engaging the first and second grooves of the orbiting scroll. A reinforcing device is thus located on the second surface of the second circular end plate of the orbiting scroll and extends across the first groove for reinforcing the circular end plate of the orbiting scroll. Thereby, a scroll-type fluid displacement apparatus may prevent deformation, scuffing and seizures of scroll member while simultaneously maintaining the thickness of the scroll members. <IMAGE>

IPC 1-7

**F04C 18/02**

IPC 8 full level

**F01C 17/06** (2006.01); **F04C 18/02** (2006.01)

CPC (source: EP)

**F01C 17/066** (2013.01); **F04C 18/0253** (2013.01)

Citation (search report)

- [A] US 5516267 A 19960514 - IKEDA KIYOHARU [JP], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 012, no. 121 (M - 686) 15 April 1988 (1988-04-15)
- [A] PATENT ABSTRACTS OF JAPAN vol. 012, no. 206 (M - 708) 14 June 1988 (1988-06-14)
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 051 (M - 457) 28 February 1986 (1986-02-28)

Cited by

US9279325B2; WO2018132344A1

Designated contracting state (EPC)

DE FR

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