

Title (en)

FACE SEAL WITH DOUBLE GROOVE ARRANGEMENT.

Title (de)

GLEITRINGDICHTUNG MIT DOPPELNUTZANORDNUNG.

Title (fr)

JOINT TOURNANT A CONFIGURATION RAINUREE DOUBLE.

Publication

**EP 0670977 A4 19951220 (EN)**

Application

**EP 93921316 A 19930901**

Priority

- US 9308289 W 19930901
- US 11224093 A 19930826
- US 11218093 A 19930826

Abstract (en)

[origin: WO9506212A1] A non-contacting grooved face seal for a shaft rotating at high speed with a combination of two groove patterns (34, 44) on one of the two sealing faces of mating seal rings; one pattern being relatively deep angled grooves (34), and the other pattern being relatively shallow grooves (44). The relatively deep groove pattern (34) is optimized for hydrodynamic operation and on shaft rotation pumps the sealed fluid between the sealing faces to set the running clearance. The relatively shallow pattern (44) is designed to hydrostatically prevent a friction lock of the sealing faces when the shaft is at or near to a stationary condition.

IPC 1-7

**F16J 15/34**

IPC 8 full level

**F16J 15/34** (2006.01)

CPC (source: EP)

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- See references of WO 9506212A1

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