

Title (en)

POSITIVE BIASED PACKING RING BRUSH SEAL COMBINATION

Title (de)

POSITIV BELASTETE DICHT- UND BÜRSTENRINGKOMBINATION

Title (fr)

COMBINAISON DE JOINT A BROUSSE TOROIDALE ET DE BAGUE D'ETANCHEITE SOLLICITEE POSITIVEMENT

Publication

**EP 1169587 A1 20020109 (EN)**

Application

**EP 00913310 A 20000201**

Priority

US 0002479 W 20000201

Abstract (en)

[origin: WO0157420A1] Circumferentially extending sealing segments (45) are disposed about a rotary component (16) and have seal face (34) carrying a plurality of labyrinth seal teeth (36) and a brush seal (37). The segments are movable between large and small clearance positions relative to the rotor at start-up and steady-state operating conditions, respectively. In one form, springs (31) bias the segments radially outwardly at start-up and steam pressure displaces the segments to the small clearance positions at steady-state operations. In a further embodiment, springs bias the segment for movement to the small clearance position, the extent of movement being determined by thermal expansion of centering rings mounting the segments to the stationary components.

IPC 1-7

**F16J 15/44**

IPC 8 full level

**F01D 11/00** (2006.01); **F01D 11/02** (2006.01); **F16J 15/16** (2006.01); **F16J 15/22** (2006.01); **F16J 15/44** (2006.01)

CPC (source: EP KR)

**F16J 15/00** (2013.01 - KR); **F16J 15/442** (2013.01 - EP)

Citation (search report)

See references of WO 0157420A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**WO 0157420 A1 20010809**; EP 1169587 A1 20020109; JP 2003521657 A 20030715; KR 20010112226 A 20011220

DOCDB simple family (application)

**US 0002479 W 20000201**; EP 00913310 A 20000201; JP 2001556031 A 20000201; KR 20017007011 A 20010605