

Title (en)
Labyrinth seal for a rotating shaft

Title (de)
Labyrinthdichtung für eine rotierende Welle

Title (fr)
Joint à labyrinthe pour un arbre rotatif

Publication
EP 1167696 A3 20031112 (DE)

Application
EP 01112342 A 20010521

Priority
DE 10030820 A 20000623

Abstract (en)
[origin: EP1167696A2] The labyrinth seal consists of sealing strips (2) installed between the rotating and stationary parts and fitted in slots (3) on the rotor or stator (1). The axial rigidity of the rotor or stator between the two sealing strips is in the main constant. At least one relief slot (6) which at most equals the depth of the slot for the sealing strip is located between two sealing strips. The relief slots may be totally or partially filled with an elastic filler and may be a wire.

IPC 1-7
F01D 11/02; F01D 5/02; F16J 15/447

IPC 8 full level
F01D 5/02 (2006.01); **F01D 11/02** (2006.01); **F16J 15/447** (2006.01)

CPC (source: EP US)
F01D 11/02 (2013.01 - EP US)

Citation (search report)
[DA] KARL SCHRÖDER: "Grosse Dampfkraftwerke, Bd 3 Die Kraftwerksausrüstung, Teil B Dampf- und Gasturbinen, Generatoren", 1968, SPRINGER VERLAG, BERLIN / HEIDELBERG / NEW YORK, XP009016858

Cited by
US9752455B2; WO03066219A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

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EP 1167696 A2 20020102; **EP 1167696 A3 20031112**; **EP 1167696 B1 20041215**; DE 10030820 A1 20020103; DE 50104807 D1 20050120; US 2002006330 A1 20020117; US 6575693 B2 20030610

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