

Title (en)  
Rotor wheel of a turbomachine

Title (de)  
Laufgrad eines Turbotriebwerks

Title (fr)  
Roue de rotor de turbomachine

Publication  
**EP 1818507 A1 20070815 (FR)**

Application  
**EP 07290123 A 20070130**

Priority  
FR 0601098 A 20060208

Abstract (en)  
The rotor wheel has disk carrying blades (16) including roots engaged and held in an annular recess (20) in an outer peripheral surface of the disk. The roots are designed to co-operate with an annular sealing gasket (54) mounted on an annular groove (52) of the outer peripheral surface of the disk. The annular gasket exerts a resilient force on blade platforms (44) holding the blades in a proper position for operation when the gasket is in rest state. The annular gasket has an outside diameter greater than that of the mounting groove of gasket, in the free state. An independent claim is also included for an annular sealing gasket for a rotor wheel.

Abstract (fr)  
Roue de rotor de turbomachine, cette roue comprenant un disque (24) portant des aubes (16) dont les pieds (18) sont engagés et retenus dans une gorge annulaire (20) du disque, ces pieds étant raccordés à des plates-formes (44) destinées à coopérer avec un joint annulaire (54) monté dans une rainure annulaire du disque, le joint d'étanchéité annulaire (54) exerçant sur les plates-formes (44) des aubes une force élastique maintenant les aubes (16) dans une position correcte de fonctionnement, à l'arrêt de la turbomachine.

IPC 8 full level  
**F01D 5/30** (2006.01); **F01D 5/00** (2006.01); **F01D 11/00** (2006.01); **F01D 25/06** (2006.01)

CPC (source: EP US)  
**F01D 5/00** (2013.01 - EP US); **F01D 5/3038** (2013.01 - EP US); **F01D 11/006** (2013.01 - US); **F01D 25/06** (2013.01 - EP US); **F05D 2230/64** (2013.01 - EP US); **F05D 2250/70** (2013.01 - EP US)

Citation (search report)

- [XA] FR 2504975 A1 19821105 - ROLLS ROYCE [GB]
- [X] US 6375429 B1 20020423 - HALILA HERBERT [US], et al
- [A] US 2004086387 A1 20040506 - FITTS DAVID ORUS [US], et al
- [A] FR 2013754 A1 19700410 - SULZER AG
- [A] EP 0280246 A1 19880831 - WESTINGHOUSE ELECTRIC CORP [US]

Cited by  
DE102009030397A1; FR2940350A1; US8905710B2; WO2010072968A1

Designated contracting state (EPC)  
DE FR GB

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1818507 A1 20070815; EP 1818507 B1 20160629**; CA 2577502 A1 20070808; CA 2577502 C 20140819; FR 2897099 A1 20070810; FR 2897099 B1 20120817; JP 2007211777 A 20070823; JP 4847887 B2 20111228; US 2007183894 A1 20070809; US 8038403 B2 20111018

DOCDB simple family (application)  
**EP 07290123 A 20070130**; CA 2577502 A 20070208; FR 0601098 A 20060208; JP 2007027909 A 20070207; US 67050907 A 20070202