

Title (en)  
ROTOR BLADE AND CORRESPONDING TURBINE ENGINE

Title (de)  
LAUFSCHAUFEL UND ZUGEHÖRIGES TURBINENTRIEBWERK

Title (fr)  
AUBE ROTORIQUE ET MOTEUR À TURBINE ASSOCIÉ

Publication  
**EP 1918523 A2 20080507 (EN)**

Application  
**EP 07254135 A 20071018**

Priority  
US 58406206 A 20061020

Abstract (en)  
A turbine rotor for a turbine engine includes multiple rotor disks (26) having rotor blades (28) mounted about the circumference of each of the rotor disks (26). A fluid seal extends about the circumference of each rotor disk (26) in close proximity to a stationary component (36) of the rotor to separate the space between the rotor blades (28) and a stationary component (36) into separate cavities. The fluid seal includes a seal land (44) on the rotor disk (26) and a brush seal (46) extending from the stationary component (36). A plurality of disk land segments (54) and a plurality of blade land segments (56) form the seal land (44). The disk seal segments (54) are located on the rotor disk (26) between the rotor blades (28). The blade land segments (56) are located on the rotor blades (28). After the rotor blades (28) are assembled, the blade land segments (56) and the disk land segments (54) fit together to form a segmented ring-like seal land (44) around the circumference of the rotor disk (26).

IPC 8 full level  
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CPC (source: EP US)  
**F01D 5/3007** (2013.01 - EP US); **F01D 11/001** (2013.01 - EP US); **F05D 2240/56** (2013.01 - EP US)

Cited by  
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