

Title (en)  
TURBINE AND METHOD FOR DISCHARGING LEAKAGE FLUID

Title (de)  
TURBINE SOWIE VERFAHREN ZUR ABFÜHRUNG VON LECKFLUID

Title (fr)  
TURBINE ET PROCEDE POUR EVACUER DU FLUIDE DE FUITE

Publication  
**EP 1206627 A1 20020522 (DE)**

Application  
**EP 00956463 A 20000818**

Priority  
• EP 00956463 A 20000818  
• EP 0008089 W 20000818  
• EP 99116939 A 19990827

Abstract (en)  
[origin: WO0116467A1] The invention relates to a turbine (1) equipped with a rotor (2) which comprises a blade area (3) for accommodating moving blades (4) and comprises a thrust balance piston (5). The thrust balance piston (5) has a hot side (6) that faces the blade area (3) and has a cold side (7) that faces away from said blade area (3). Both a feed (14), which is provided for sealing fluid (15) and which is assigned to the cold side (7), as well as a leakage fluid feed (12), which is fluidically connected to the blade area (3), open into a mixing area (13) on one side, and a discharge line (16) branches off from the mixing area on the other side. The invention also relates to a method for discharging hot leakage fluid (17). The leakage fluid (17) enters a turbine (1) through a radial gap (12), which is located between a thrust balance piston (5) of a rotor (2) and a stationary turbine part (11), is mixed with a cooler sealing fluid (15) and is discharged.

IPC 1-7  
**F01D 11/04**; **F01D 3/04**

IPC 8 full level  
**F01D 3/04** (2006.01); **F01D 11/04** (2006.01); **F01D 25/16** (2006.01); **F01D 25/32** (2006.01)

CPC (source: EP KR US)  
**F01D 3/04** (2013.01 - EP US); **F01D 11/04** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 0116467A1

Cited by  
EP1806476A1

Designated contracting state (EPC)  
CH DE FR GB IT LI

DOCDB simple family (publication)  
**WO 0116467 A1 20010308**; CN 1171006 C 20041013; CN 1370254 A 20020918; DE 50009046 D1 20050127; EP 1206627 A1 20020522; EP 1206627 B1 20041222; JP 2003508665 A 20030304; JP 4522633 B2 20100811; KR 20020028221 A 20020416; US 6695575 B1 20040224

DOCDB simple family (application)  
**EP 0008089 W 20000818**; CN 00811954 A 20000818; DE 50009046 T 20000818; EP 00956463 A 20000818; JP 2001519993 A 20000818; KR 20027002572 A 20020227; US 6954302 A 20020227