

Title (en)

Braking device for a turbine in a gas turbine motor in the event of shaft breakage

Title (de)

Bremsvorrichtung in einem Gasturbinenmotor einer Turbine für den Fall eines Wellenbruchs

Title (fr)

Dispositif de freinage dans un moteur à turbine à gaz d'une turbine en cas de rupture d'arbre

Publication

EP 2071136 A3 20100310 (FR)

Application

EP 08156698 A 20080521

Priority

FR 0703758 A 20070525

Abstract (en)

[origin: FR2916482A1] The system (100) has a braking unit (110) provided with an abrasive element (110A), braking unit (120) with a ring shaped element (120A) made of susceptible material. The two braking units are integrated to a stator and a rotor, respectively. The braking units are contacted by an axial displacement of the rotor, after braking of a shaft. The abrasive element is eroded with the ring shape element. The braking unit is mounted on a stator support formed by an exhaust case (10).

IPC 8 full level

F01D 21/00 (2006.01)

CPC (source: EP US)

F01D 21/006 (2013.01 - EP US); **F05D 2230/90** (2013.01 - EP US); **F05D 2260/902** (2013.01 - EP US); **F05D 2300/21** (2013.01 - EP US); **F05D 2300/2102** (2013.01 - EP US); **F05D 2300/2118** (2013.01 - EP US); **F05D 2300/44** (2013.01 - EP US); **F05D 2300/601** (2013.01 - EP US); **F05D 2300/603** (2013.01 - EP US); **F05D 2300/611** (2013.01 - EP US); **F05D 2300/614** (2013.01 - EP US)

Citation (search report)

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- [X] EP 0374003 A1 19900620 - SNECMA [FR]
- [A] US 4498291 A 19850212 - JEFFERY GRAHAM J [GB]
- [A] FR 2050550 A5 19710402 - COMMISSARIAT ENERGIE ATOMIQUE
- [A] EP 0928881 A1 19990714 - SNECMA [FR]

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US9062560B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

FR 2916482 A1 20081128; **FR 2916482 B1 20090904**; EP 2071136 A2 20090617; EP 2071136 A3 20100310; EP 2071136 B1 20180725; US 2009126336 A1 20090521; US 8161727 B2 20120424

DOCDB simple family (application)

FR 0703758 A 20070525; EP 08156698 A 20080521; US 12664808 A 20080523