

Title (en)

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

Title (de)

Bremsvorrichtung für eine Turbine in einem Gasturbinenantrieb 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 1995414 B1 20100707 (FR)

Application

EP 08156695 A 20080521

Priority

FR 0703759 A 20070525

Abstract (en)

[origin: EP1995414A1] The device (100) has a braking unit (110) integrated to a rim (63'B) and provided with a cutting element (110A) presented under the form of a blade. Another braking unit (120) is integrated to a stator downstream of the rim, and has a ring shaped element (120A) made of a material to be cut. The braking units contact by axial displacement of a rotor after rupture of the rotor, where the cutting element of the braking unit cuts the ring shaped element. The ring shaped element is brought on a flange (120B) mounted on the stator.

IPC 8 full level

F01D 21/02 (2006.01); **F01D 21/04** (2006.01)

CPC (source: EP US)

F01D 21/006 (2013.01 - EP US); **F01D 21/04** (2013.01 - EP US); **F05D 2270/021** (2013.01 - EP US)

Cited by

EP3670852A1; CN108742350A; US11624295B2

Designated contracting state (EPC)

DE FR GB

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EP 08156695 A 20080521; CA 2631620 A 20080523; DE 602008001684 T 20080521; FR 0703759 A 20070525; RU 2008120784 A 20080523; US 12640708 A 20080523