

Title (en)

METHOD FOR BRAKING A ROTOR OF A TURBINE ENGINE AND A TURNING GEAR FOR DRIVING THE ROTOR OF A TURBINE ENGINE

Title (de)

VERFAHREN ZUM ABBREMSEN EINES ROTORS EINER STRÖMUNGSMASCHINE UND EINE DREHVORRICHTUNG ZUM ANTREIBEN DES ROTORS EINER STRÖMUNGSMASCHINE

Title (fr)

PROCEDE DE FREINAGE D'UN ROTOR D'UNE TURBOMACHINE ET VIREUR PERMETTANT D'ENTRAINER LE ROTOR D'UNE TURBOMACHINE

Publication

EP 1654443 B1 20070321 (DE)

Application

EP 04763286 A 20040716

Priority

- EP 2004007945 W 20040716
- EP 03018376 A 20030813
- EP 04763286 A 20040716

Abstract (en)

[origin: EP1507068A1] The machine (1,31) has a rotary device (22) with drive unit with drive shaft (28), supplied by an energy source. During a cooling phase of the turbine, the rotor (3,30) is driven by the unit via the shaft. After conclusion of the cooling phase, and for rotor cooling, the rotor drives the drive unit via the shaft in reverse operation. The drive unit is disconnected from the energy source and connected to a load element. The drive is a hydraulic motor (26), acting as pump in reverse operation, or an electric motor (33), acting as generator. The rotor is born by an oil bearing, and this has its energy supply cut off when the rotor has stopped.

IPC 8 full level

F01D 21/00 (2006.01); **F01D 25/34** (2006.01)

CPC (source: EP US)

F01D 21/006 (2013.01 - EP US); **F01D 25/34** (2013.01 - EP US)

Designated contracting state (EPC)

CH DE ES GB IT LI

DOCDB simple family (publication)

EP 1507068 A1 20050216; CN 100543276 C 20090923; CN 1833095 A 20060913; DE 502004003297 D1 20070503; EP 1654443 A1 20060510; EP 1654443 B1 20070321; ES 2281820 T3 20071001; US 2011027061 A1 20110203; US 8641360 B2 20140204; WO 2005019603 A1 20050303

DOCDB simple family (application)

EP 03018376 A 20030813; CN 200480022833 A 20040716; DE 502004003297 T 20040716; EP 04763286 A 20040716; EP 2004007945 W 20040716; ES 04763286 T 20040716; US 56833810 A 20100806