

Title (en)
GAS TURBINE ENGINE

Title (de)
GASTURBINENMOTOR

Title (fr)
MOTEUR À TURBINE À GAZ

Publication
EP 2543851 A4 20131106 (EN)

Application
EP 11750330 A 20110221

Priority
• JP 2010044426 A 20100301
• JP 2011000945 W 20110221

Abstract (en)
[origin: EP2543851A1] A gas turbine engine (1) comprises a hollow rotor (11) including a plurality of rotor segments stacked and coupled together in a direction of its center axis (C) and defining at least one of a compressor (3) and a turbine (7); and a pipe unit (51) inserted into an inner space (29) of the rotor in the center axis direction. In the gas turbine engine (1), a weight distribution of the pipe unit (51) within an axial transverse section is set eccentric with respect to the center axis (C) of the rotor. In this way, a gas turbine engine which is high in performance and reliability is provided, in which a pipe provided in an inner space of the rotor to transport a cooling medium or lay out a cable, etc., is prevented from whirling.

IPC 8 full level
F02C 7/18 (2006.01); **F01D 5/06** (2006.01); **F01D 5/08** (2006.01); **F01D 11/04** (2006.01); **F01D 25/00** (2006.01); **F01D 25/16** (2006.01)

CPC (source: EP US)
F01D 5/085 (2013.01 - EP US)

Citation (search report)
• [XAY] US 6094905 A 20000801 - FUKUYAMA YOSHITAKA [JP]
• [Y] EP 1128158 A2 20010829 - GEN ELECTRIC [US]
• See references of WO 2011108216A1

Cited by
GB2574107A; GB2574107B; EP3105438A4; US10337405B2; WO2017200644A1; US10443429B2; US10526910B2; US11879411B2

Designated contracting state (EPC)
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