

Title (en)
TURBINE ENGINE SHUTDOWN TEMPERATURE CONTROL SYSTEM

Title (de)
STEUERUNGSSYSTEM DER TURBINENMOTORABSCHALTUNGSTEMPERATUR

Title (fr)
SYSTÈME DE RÉGULATION DE TEMPÉRATURE D'ARRÊT DE MOTEUR À TURBINE

Publication
EP 2989297 A1 20160302 (EN)

Application
EP 14723657 A 20140416

Priority
• US 201313871080 A 20130426
• US 2014034296 W 20140416

Abstract (en)
[origin: US2014321981A1] A turbine engine shutdown temperature control system configured to foster consistent air temperature within cavities surrounding compressor and turbine blade assemblies to eliminate turbine and compressor blade tip rub during warm restarts of gas turbine engines is disclosed. The turbine engine shutdown temperature control system may include one or more air amplifiers positioned in a turbine case. An exhaust outlet of the air amplifier may extend into a cavity created by a turbine case and may be configured to exhaust air in a generally circumferential direction to entrain air within the cavity to flow circumferentially to establish a consistent air temperature within the cavity thereby preventing uneven cooling of turbine engine components after shutdown and prevent damage to turbine components during a warm restart.

IPC 8 full level
F01D 11/24 (2006.01); **F01D 19/02** (2006.01); **F01D 25/26** (2006.01); **F02C 7/18** (2006.01)

CPC (source: EP US)
F01D 11/24 (2013.01 - EP US); **F01D 19/02** (2013.01 - EP US); **F01D 25/26** (2013.01 - EP US); **F02C 7/18** (2013.01 - EP US)

Citation (search report)
See references of WO 2014176085A1

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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US 2014321981 A1 20141030; CN 105121789 A 20151202; EP 2989297 A1 20160302; JP 2016516941 A 20160609;
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DOCDB simple family (application)
US 201313871080 A 20130426; CN 201480020972 A 20140416; EP 14723657 A 20140416; JP 2016510702 A 20140416;
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