

Title (en)
STEAM TURBINE AND PROCESS FOR COOLING SUCH A STEAM TURBINE

Title (de)
DAMPFTURBINE SOWIE VERFAHREN ZUM KÜHLEN EINER SOLCHEN

Title (fr)
TURBINE À VAPEUR ET PROCÉDÉ POUR REFROIDIR UNE TURBINE À VAPEUR

Publication
EP 2598724 A1 20130605 (DE)

Application
EP 11740595 A 20110718

Priority

- EP 10171447 A 20100730
- EP 2011062251 W 20110718
- EP 11740595 A 20110718

Abstract (en)
[origin: EP2412937A1] The turbine (1) has a flow duct (4) formed between a stator (2) and a rotor (3). Blades (33) of the rotor and guide vanes (23) of the stator are arranged alternately in the flow duct. A fresh steam feed line (5) feeds fresh steam into an inflow region (41) of the flow duct such that the fresh steam is circulated around the rotor blades and the guide vanes. A cooling steam feed line (6) feeds cooling steam into a region (34) of the rotor. A pressure compensation cross connection (7) is provided between the flow duct and the cooling steam feed line. An independent claim is also included for a method for cooling a steam turbine.

IPC 8 full level
F01D 25/08 (2006.01); **F01D 3/00** (2006.01); **F01D 25/14** (2006.01)

CPC (source: EP)
F01D 3/00 (2013.01); **F01D 25/08** (2013.01); **F01D 25/14** (2013.01); **F05D 2220/31** (2013.01); **F05D 2260/2322** (2013.01)

Citation (search report)
See references of WO 2012013531A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2412937 A1 20120201; CN 103052768 A 20130417; CN 103052768 B 20150722; EP 2598724 A1 20130605; EP 2598724 B1 20140604; JP 2013531182 A 20130801; JP 5604684 B2 20141015; WO 2012013531 A1 20120202

DOCDB simple family (application)
EP 10171447 A 20100730; CN 201180037593 A 20110718; EP 11740595 A 20110718; EP 2011062251 W 20110718; JP 2013520110 A 20110718