

Title (en)

Method for operating a multi-stage steam turbine

Title (de)

Verfahren zum Betreiben einer mehrstufigen Dampfturbine

Title (fr)

Procédé destiné au fonctionnement d'une turbine à vapeur multiple

Publication

EP 1998014 A3 20081231 (DE)

Application

EP 07003922 A 20070226

Priority

EP 07003922 A 20070226

Abstract (en)

[origin: WO2008104465A2] The invention relates to a method for operating a multi-step steam turbine (4, 5, 6) that is suitable for high temperatures. The rotor (27) is embodied as a welded construction having a first component (33) and a second component (34) and a coolant is supplied to the steam turbine (4, 5, 6) after an intermediate stage (14) when said steam turbine (4, 5, 6) is in the light-load or no-load phase. As a result, the thermal loads in the outflow area (32) of the steam turbine (4, 5, 6) are reduced.

IPC 8 full level

F01K 13/02 (2006.01); **F01D 25/12** (2006.01); **F01K 7/16** (2006.01); **F01K 13/00** (2006.01)

CPC (source: EP US)

F01D 5/28 (2013.01 - EP US); **F01D 25/12** (2013.01 - EP US); **F01D 25/14** (2013.01 - EP US); **F01D 25/26** (2013.01 - EP US); **F01K 7/16** (2013.01 - EP US); **F01K 13/006** (2013.01 - EP US); **F01K 13/02** (2013.01 - US); **F01K 13/025** (2013.01 - EP US); **F05D 2220/31** (2013.01 - EP US); **F05D 2260/232** (2013.01 - EP US)

Citation (search report)

- [XD] DD 148367 A1 19810520 - SPEICHER KARL
- [X] EP 1674669 A1 20060628 - SIEMENS AG [DE]
- [X] WO 9812421 A1 19980326 - WESTINGHOUSE ELECTRIC CORP [US]
- [X] EP 1473442 A2 20041103 - TOSHIBA KK [JP]
- [X] DE 19823251 C1 19990708 - SIEMENS AG [DE]
- [X] US 4498301 A 19850212 - TSUBOUCHI KUNIYOSHI [JP]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2008104465 A2 20080904; WO 2008104465 A3 20090129; CN 101622424 A 20100106; CN 101622424 B 20130619; EP 1998014 A2 20081203; EP 1998014 A3 20081231; EP 2129879 A2 20091209; JP 2010519452 A 20100603; JP 5066194 B2 20121107; US 2011005224 A1 20110113; US 2014150431 A1 20140605; US 8713941 B2 20140506

DOCDB simple family (application)

EP 2008051834 W 20080215; CN 200880006216 A 20080215; EP 07003922 A 20070226; EP 08709020 A 20080215; JP 2009550265 A 20080215; US 201414176419 A 20140210; US 52834908 A 20080215