

Title (en)

Power plant and method for operating a power plant assembly

Title (de)

Kraftwerk und Verfahren zum Betreiben einer Kraftwerksanlage

Title (fr)

Centrale électrique et procédé destiné au fonctionnement d'une centrale électrique

Publication

EP 2647802 A1 20131009 (DE)

Application

EP 12163194 A 20120404

Priority

EP 12163194 A 20120404

Abstract (en)

The method involves operating a power plant in a partial load operation, where a steam turbine of the power plant is divided into a high pressure partial turbine, a medium pressure partial turbine and a low pressure partial turbine. Temperature at an inlet to a reheater unit is increased through a throttling valve that is positioned before the medium pressure partial turbine such that expansion is reduced in the high pressure partial turbine, where the reheater unit is arranged between the high- and medium pressure partial turbines. An independent claim is also included for a power plant.

Abstract (de)

Ein Kraftwerk und ein Verfahren zum Betreiben eines Kraftwerks, wobei im Teillastbetrieb die Temperatur am Ausgang der Hochdruck-Teilturbine durch eine Androsselung mittels des Mitteldruck-Ventils erfolgt.

IPC 8 full level

F01K 7/22 (2006.01); **F01K 7/24** (2006.01); **F01K 13/02** (2006.01)

CPC (source: EP US)

F01K 3/262 (2013.01 - US); **F01K 7/025** (2013.01 - US); **F01K 7/22** (2013.01 - EP US); **F01K 7/24** (2013.01 - EP US); **F01K 13/02** (2013.01 - EP US)

Citation (search report)

- [X] EP 0236959 A2 19870916 - HITACHI LTD [JP]
- [X] DE 102008037579 A1 20090528 - GEN ELECTRIC [US]
- [XA] EP 0899505 A2 19990303 - MITSUBISHI HEAVY IND LTD [JP]
- [X] DE 102010041627 A1 20120329 - SIEMENS AG [DE]
- [X] US 3894394 A 19750715 - BRAYTENBAH ANDREW S, et al
- [X] US 4132076 A 19790102 - WEISS GERHARD
- [X] US 4253308 A 19810303 - EGGENBERGER MARKUS A, et al

Cited by

EP3026230A1; CN107002513A; US2017314421A1; WO2016083131A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2647802 A1 20131009; CN 104204425 A 20141210; CN 104204425 B 20150916; EP 2805031 A1 20141126; EP 2805031 B1 20151223; IN 7231DEN2014 A 20150424; JP 2015515573 A 20150528; JP 5985737 B2 20160906; PL 2805031 T3 20160630; US 2015113989 A1 20150430; US 9574462 B2 20170221; WO 2013149900 A1 20131010

DOCDB simple family (application)

EP 12163194 A 20120404; CN 201380018922 A 20130327; EP 13714254 A 20130327; EP 2013056496 W 20130327; IN 7231DEN2014 A 20140828; JP 2015503823 A 20130327; PL 13714254 T 20130327; US 201314388553 A 20130327