

Title (en)

STEAM TURBINE INSTALLATION AND METHOD FOR OPERATING THE STEAM TURBINE INSTALLATION

Title (de)

DAMPFTURBINENANLAGE UND VERFAHREN ZUM BETREIBEN DER DAMPFTURBINENANLAGE

Title (fr)

INSTALLATION DE TURBINE À VAPEUR ET PROCÉDÉ POUR FAIRE FONCTIONNER UNE INSTALLATION DE TURBINE A VAPEUR

Publication

EP 2705225 B1 20150429 (DE)

Application

EP 12729473 A 20120614

Priority

- EP 11174006 A 20110714
- EP 2012061251 W 20120614
- EP 12729473 A 20120614

Abstract (en)

[origin: EP2546476A1] The installation has a steam turbine (5) having an overload bypass line (14) with which main steam is fed to a feed water pre-heating unit (11) between steam turbine input and extraction point (9) during overload operation of steam turbine. An auxiliary extraction line (17) is connected to overload bypass line in such a way that process steam is able to extract from the steam turbine during partial load operation of steam turbine so as to add extracted process steam to feed water pre-heating unit for additional pre-heating of feed water. An independent claim is included for method for operating steam turbine installation.

IPC 8 full level

F01K 7/34 (2006.01); **F01K 7/40** (2006.01); **F01K 7/44** (2006.01); **F01K 13/02** (2006.01); **F22D 1/32** (2006.01)

CPC (source: EP US)

F01K 7/34 (2013.01 - US); **F01K 7/40** (2013.01 - EP US); **F01K 7/44** (2013.01 - US); **F01K 13/02** (2013.01 - EP US); **F22D 1/32** (2013.01 - EP US); **F22D 1/325** (2013.01 - US)

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 2546476 A1 20130116; CN 103649474 A 20140319; CN 103649474 B 20151223; EP 2705225 A2 20140312; EP 2705225 B1 20150429; JP 2014522940 A 20140908; JP 5990581 B2 20160914; US 2014130499 A1 20140515; US 9322298 B2 20160426; WO 2013007462 A2 20130117; WO 2013007462 A3 20130822

DOCDB simple family (application)

EP 11174006 A 20110714; CN 201280034950 A 20120614; EP 12729473 A 20120614; EP 2012061251 W 20120614; JP 2014519475 A 20120614; US 201214131499 A 20120614