

Title (en)

ADDITIONAL CONTROLLED EXTRACTION FOR A PREHEATER FOR IMPROVING THE PLANT DYNAMICS AND THE FREQUENCY REGULATION IN A STEAM POWER PLANT

Title (de)

ZUSÄTZLICHE REGELANZAPFUNG FÜR EINEN VORWÄRMER ZUR VERBESSERUNG DER ANLAGENDYNAMIK UND FREQUENZREGELUNG BEI EINEM DAMPFKRAFTWERK

Title (fr)

PRÉLÈVEMENT RÉGULÉ SUPPLÉMENTAIRE DESTINÉ À UN PRÉCHAUFFEUR POUR AMÉLIORER LA DYNAMIQUE DE L'INSTALLATION ET LA RÉGULATION DE FRÉQUENCE DANS UNE CENTRALE THERMIQUE À VAPEUR

Publication

EP 2712393 A2 20140402 (DE)

Application

EP 12729098 A 20120614

Priority

- DE 102011078193 A 20110628
- EP 2012061278 W 20120614

Abstract (en)

[origin: WO2013000720A2] The invention relates to an extraction method for a preheater of a steam power plant and to a water-steam circuit in a steam power plant. According to the invention, a higher-energetic steam is tapped on a turbine of the steam power plant and is admixed to a lower-energetic steam which is tapped on the turbine. The steam mixture of the lower-energetic steam and the admixed higher-energetic steam is fed to a preheater, in particular a high-pressure preheater, especially a last high-pressure preheating stage of the high-pressure preheater of the steam power plant, particularly for heating feed water flowing through the preheater. By an in particular regulated and/or controlled admixing of the higher-energetic steam to the lower-energetic steam (controlled extraction), a fast power change can be achieved in the steam power plant, particularly in part-load operation of the steam power plant, by changing the temperature of the lower-energetic steam.

IPC 8 full level

F01K 7/22 (2006.01); **F01K 7/40** (2006.01); **F01K 13/02** (2006.01); **F01K 17/06** (2006.01)

CPC (source: EP)

F01K 7/22 (2013.01); **F01K 7/40** (2013.01); **F01K 13/02** (2013.01); **F01K 17/06** (2013.01)

Citation (search report)

See references of WO 2013000720A2

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)

DE 102011078193 A1 20130103; CN 103717846 A 20140409; CN 103717846 B 20151125; EP 2712393 A2 20140402; RU 2014102615 A 20150810; WO 2013000720 A2 20130103; WO 2013000720 A3 20131219

DOCDB simple family (application)

DE 102011078193 A 20110628; CN 201280031673 A 20120614; EP 12729098 A 20120614; EP 2012061278 W 20120614; RU 2014102615 A 20120614