

Title (en)
METHOD FOR THE RECOVERY OF PROCESS WASTEWATERS OF A FOSSIL-FUELED STEAM POWER PLANT AND FOSSIL-FUELED STEAM POWER PLANT

Title (de)
VERFAHREN ZUR RÜCKGEWINNUNG VON PROZESSABWÄSSERN EINER FOSSIL BEFEUERTEN DAMPKRAFTWERKSANLAGE SOWIE FOSSIL BEFEUERTE DAMPKRAFTWERKSANLAGE

Title (fr)
PROCÉDÉ DE RÉCUPÉRATION D'EAUX USÉES DE PROCESSUS PROVENANT D'UNE CENTRALE THERMIQUE À VAPEUR À COMBUSTIBLE FOSSILE ET CENTRALE THERMIQUE À VAPEUR À COMBUSTIBLE FOSSILE

Publication
EP 3004570 A2 20160413 (DE)

Application
EP 14758816 A 20140821

Priority
• DE 102013217335 A 20130830
• EP 2014067824 W 20140821

Abstract (en)
[origin: WO2015028387A2] The invention relates to a method for operating a fossil-fueled steam power plant (1) and to a fossil-fueled steam power plant (1) having a water-steam circuit (2), a cooling water circuit (6), a flue gas cleaning system (8) and a cooling tower (7). A fossil-fueled steam generator (3), a steam turbine (4) and a condenser (5) are connected to the water-steam circuit (2). In the cooling water circuit (6), a cooling tower (7) and the condenser (5) are connected such that expanded steam from the water-steam circuit (2) can be condensed in the condenser (5) by the exchange of heat with the cooling water circuit. The flue gas from the fossil-fueled steam generator (3) is cleaned in the flue gas cleaning system (8), to which end the flue gas cleaning system (8) is supplied with process water (9). Process wastewater (10) leaves the flue gas cleaning system (8). According to the invention, the flue gas cleaning system (8) is connected to the cooling water circuit (6) in such a way that the process water required for the flue gas cleaning system (8) can be drawn from the cooling water circuit (6). To remove contaminated process wastewater (11), the flue gas cleaning installation (8) is connected to a wastewater treatment system (13) which comprises an evaporator (12), by means of which system purified process wastewater (14) can be generated.

IPC 8 full level
F01K 13/00 (2006.01)

CPC (source: EP KR US)
C02F 1/048 (2013.01 - KR); **F01K 9/003** (2013.01 - US); **F01K 11/02** (2013.01 - KR); **F01K 13/00** (2013.01 - EP KR US); **F01K 21/06** (2013.01 - US); **F01K 23/04** (2013.01 - KR); **F01K 25/005** (2013.01 - US)

Citation (search report)
See references of WO 2015028387A2

Citation (examination)
• DE 2613205 A1 19771006 - SAARBERGWERKE AG
• DE 4114333 A1 19921105 - BUSS AG [CH]

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)
WO 2015028387 A2 20150305; WO 2015028387 A3 20150430; EP 3004570 A2 20160413; JP 2016536518 A 20161124; KR 20160047548 A 20160502; US 2016208658 A1 20160721

DOCDB simple family (application)
EP 2014067824 W 20140821; EP 14758816 A 20140821; JP 2016537239 A 20140821; KR 20167007947 A 20140821; US 201414913109 A 20140821