

Title (en)

Method of operating a power plant and power plant working according to this method

Title (de)

Verfahren zum Betreiben einer Kraftwerksanlage sowie danach arbeitende Anlage

Title (fr)

Procédé de fonctionnement d'une centrale et centrale fonctionnant suivant ce procédé

Publication

EP 0595009 B1 19960110 (DE)

Application

EP 93114883 A 19930915

Priority

DE 4232881 A 19920930

Abstract (en)

[origin: EP0595009A1] Preheated feedwater at high pressure is evaporated in a power plant having a fossil-fuel-fired steam generator (2), in which the heat contained in the flue gas (RG) from the furnace (12) is used to generate steam for a steam turbine (10) and the hot flue gas (RG) is denitrified. The steam thereby generated is superheated before entry into the steam turbine (10) and after partial expansion in the steam turbine (10). In order independently of the load condition of the power plant to ensure a particularly favourable temperature response for the functioning of a denitrification device (15) provided inside the steam generator (2), it is provided in accordance with the invention that the feedwater is preheated solely outside the steam generator (2) and the flue gas (RG) is denitrified immediately following its exchange of heat with the partially expanded steam. The power plant working according to this method is distinguished by a particularly low technical complexity, the more so as there is no provision of an economiser previously provided inside the steam generator (2). <IMAGE>

IPC 1-7

F22B 37/00; **F23J 15/00**

IPC 8 full level

F01K 3/18 (2006.01); **F22B 37/00** (2006.01); **F22D 1/32** (2006.01); **F23J 15/00** (2006.01)

CPC (source: EP US)

F22B 37/008 (2013.01 - EP US)

Cited by

DE102009043499A1; CZ308268B6; WO9901697A1

Designated contracting state (EPC)

DE FR GB SE

DOCDB simple family (publication)

EP 0595009 A1 19940504; **EP 0595009 B1 19960110**; CN 1056664 C 20000920; CN 1089331 A 19940713; DE 59301406 D1 19960222; JP 3535544 B2 20040607; JP H06229207 A 19940816; US 6125634 A 20001003

DOCDB simple family (application)

EP 93114883 A 19930915; CN 93118632 A 19930928; DE 59301406 T 19930915; JP 26835793 A 19930929; US 32000199 A 19990526