

Title (en)

METHOD FOR STARTING A STEAM GENERATOR COMPRISING A HEATING GAS CHANNEL THAT CAN BE TRAVERSED IN AN APPROXIMATELY HORIZONTAL HEATING GAS DIRECTION AND A STEAM GENERATOR

Title (de)

VERFAHREN ZUM ANFAHREN EINES DAMPFERZEUGERS MIT EINEM IN EINER ANNÄHERND HORIZONTAL EN HEIZGASRICHTUNG DURCHSTRÖMBAREN HEIZGASKANAL UND DAMPFERZEUGER

Title (fr)

PROCEDE DE MISE EN MARCHE D'UN GENERATEUR DE VAPEUR COMPORTANT UN CANAL A GAZ CHAUFFANT POUVANT ETRE TRAVERSE PAR UN GAZ CHAUFFANT DANS UNE DIRECTION APPROXIMATIVEMENT HORIZONTALE ET GENERATEUR DE VAPEUR

Publication

EP 1421317 B1 20121128 (DE)

Application

EP 02797600 A 20020820

Priority

- EP 02797600 A 20020820
- EP 0209312 W 20020820
- EP 01121027 A 20010831

Abstract (en)

[origin: EP1288567A1] The method for starting a steam producer (1) involves a hot gas channel (6) flowed through in virtually horizontal hot gas direction, in which at least one throughflow heating surface (8) is arranged formed by parallel connected evaporator tubes (14) vertically arranged for throughflow of flow medium (W,D). At least some of the evaporator tubes, before input of hot gas into the hot gas channel are filled with unevaporated flow medium up to a predetermined level. The actual state of fill of the evaporator tubes is determined by a difference pressure measurement between the lower tube inlet (32) and the upper tube outlet (34). The starting heating process is determined on the basis of characteristic values for the boiler geometry and/or the timewise process of the heat offer through the hot gas.

IPC 8 full level

F22B 1/00 (2006.01); **F22B 1/18** (2006.01); **F22B 21/00** (2006.01); **F22B 35/14** (2006.01)

CPC (source: EP KR US)

F22B 1/1815 (2013.01 - EP US); **F22B 35/14** (2013.01 - EP KR US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

EP 1288567 A1 20030305; CA 2458390 A1 20030313; CA 2458390 C 20081230; CN 1289854 C 20061213; CN 1543551 A 20041103; CZ 2004403 A3 20040616; EP 1421317 A2 20040526; EP 1421317 B1 20121128; ES 2395897 T3 20130215; JP 2005523410 A 20050804; JP 2008180501 A 20080807; JP 4970316 B2 20120704; KR 100742407 B1 20070724; KR 20040029105 A 20040403; PL 199757 B1 20081031; PL 367786 A1 20050307; RU 2004109587 A 20050520; RU 2290563 C2 20061227; SK 1552004 A3 20041103; US 2006192023 A1 20060831; US 7281499 B2 20071016; WO 03021148 A2 20030313; WO 03021148 A3 20030417; WO 03021148 A8 20040304

DOCDB simple family (application)

EP 01121027 A 20010831; CA 2458390 A 20020820; CN 02816243 A 20020820; CZ 2004403 A 20020820; EP 0209312 W 20020820; EP 02797600 A 20020820; ES 02797600 T 20020820; JP 2003525187 A 20020820; JP 2008061279 A 20080311; KR 20047002993 A 20020820; PL 36778602 A 20020820; RU 2004109587 A 20020820; SK 1552004 A 20020820; US 48832804 A 20041101