

Title (en)

PROCESS FOR OPERATING A CONTINUOUS STEAM GENERATOR AND CONTINUOUS STEAM GENERATOR THUS OPERATED

Title (de)

VERFAHREN ZUM BETREIBEN EINES DURCHLAUFDAMPFERZEUGERS SOWIE DANACH ARBEITENDER DURCHLAUFDAMPFERZEUGER

Title (fr)

PROCEDE PERMETTANT DE FAIRE FONCTIONNER UN GENERATEUR EN CONTINU DE VAPEUR ET GENERATEUR EN CONTINU DE VAPEUR FONCTIONNANT SELON CE PROCEDE

Publication

**EP 0720714 A1 19960710 (DE)**

Application

**EP 94926796 A 19940919**

Priority

- DE 9401086 W 19940919
- DE 4333404 A 19930930

Abstract (en)

[origin: WO9509325A1] In order to avoid the inconvenience that results from a faulty heating of individual pipes (10) of a steam generator (2) with vertical pipes arranged in the combustion chamber, the mass flow density  $m$  in the pipes (10) is set below a predetermined maximum value (curve B) which depends on the inner diameter  $d$  of the used pipes. In order to avoid inadmissibly high pipe wall temperatures even at the proximity of a critical pressure of about 200 to 221 bars, the inner surface of each pipe (10) is further provided with a surface structure that causes a high turbulence and/or a longitudinal vortex in the flowing medium. The components of the flowing medium are thus intimately mixed so that a good heat transmission is achieved.

IPC 1-7

**F22B 37/10**; **F28F 1/40**

IPC 8 full level

**F22B 37/12** (2006.01); **F22B 21/02** (2006.01); **F22B 37/10** (2006.01); **F28F 1/40** (2006.01); **F28F 13/02** (2006.01)

CPC (source: EP KR US)

**F22B 37/10** (2013.01 - KR); **F22B 37/103** (2013.01 - EP US); **F28F 1/40** (2013.01 - EP KR US); **F28F 13/02** (2013.01 - EP US)

Citation (search report)

See references of WO 9509325A1

Designated contracting state (EPC)

CH DE FR GB LI

DOCDB simple family (publication)

**DE 4333404 A1 19950406**; CN 1132548 A 19961002; DE 59405540 D1 19980430; EP 0720714 A1 19960710; EP 0720714 B1 19980325; JP H09503284 A 19970331; KR 960705177 A 19961009; RU 2123634 C1 19981220; US 5706766 A 19980113; WO 9509325 A1 19950406

DOCDB simple family (application)

**DE 4333404 A 19930930**; CN 94193594 A 19940919; DE 59405540 T 19940919; DE 9401086 W 19940919; EP 94926796 A 19940919; JP 51004795 A 19940919; KR 19960701726 A 19960330; RU 96108253 A 19940919; US 62777996 A 19960401