

Title (en)

Steam boiler of once-through type and process for operating the same

Title (de)

Durchlaufdampferzeuger und Verfahren zu dessen Betrieb

Title (fr)

Chaudière à vapeur du type à circulation ouverte, et procédé de faire fonctionner une telle chaudière

Publication

EP 0720714 B1 19980325 (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

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CPC (source: EP KR US)

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DOCDB simple family (publication)

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