Title (en)

FORCED-FLOW STEAM GENERATOR FOR USING AT STEAM TEMPERATURES OF ABOVE 650°C

Title (de)

ZWANGDURCHLAUFDAMPFERZEUGER FÜR DEN EINSATZ VON DAMPFTEMPERATUREN VON ÜBER 650°C

Title (fr)

DISPOSITIF DE PRODUCTION DE VAPEUR À CIRCULATION FORCÉE PRÉVU POUR L'UTILISATION À DES TEMPÉRATURES DE VAPEUR SUPÉRIEURES À 650°C

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Application

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Abstract (en)

[origin: WO2011026461A2] The invention relates to a forced-flow steam generator for using steam temperatures of above 650°C. Said forced-flow steam generator (1) comprises a combustion chamber (2) and a waste gas flue (3) connected to the upper end thereof, and peripheral walls (4) surrounding said flue. Said walls (4) are formed from tubular walls (5), the tubes thereof guiding the water/steam working medium. The combustion chamber (2) comprises at least one burner (6), and downstream heating surfaces (7) are arranged in the waste gas flue (3). Part of the peripheral walls (4) is covered in the region of the combustion chamber (2) by at least one bulkhead heating surface (8), the size of which on the surface side being determined such that the heat absorption of the peripheral walls (4) and therefore the temperature thereof are reduced to a value enabling the formation of the peripheral walls (4) from modified, heat-resistant 2.25-2.5% chrome steel that does not require any heat aftertreatment following the welding treatment thereof.

IPC 8 full level

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