

Title (en)

CONTINUOUS FLOW STEAM GENERATOR WITH A VERTICAL GAS FLUE OF SUBSTANTIALLY VERTICALLY FITTED PIPES.

Title (de)

DURCHLAUFDAMPFERZEUGER MIT EINEM VERTIKALEN GASZUG AUS IM WESENTLICHEN VERTIKAL ANGEORDNETEN ROHREN.

Title (fr)

GENERATEUR DE VAPEUR EN CONTINU AVEC CHEMINEE A GAZ CONSTITUEE DE CONDUITS ASSEMBLES PRATIQUEMENT VERTICALEMENT.

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Application

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Priority

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Abstract (en)

[origin: WO9218807A1] In such continuous steam generators, the pipes (3) together form combustion chamber walls (2) and bear burners for fossil fuels. The insides of the pipes are often fitted with ribs forming a multiple thread and connected together in parallel for the circulation of a coolant. According to the invention, the inside diameter d of the pipes is a function of a quotient K and certain points lie between a curve A and the ordinates from paired values of the inside pipe diameter d and the quotient K in a system of co-ordinates. Here, the summed mass flow M through all the pipes at 100% steam production divided by the volume of the gas flue in a horizontal section through the combustion chamber is used to form the quotient K and thereby there are four defined points on curve A, which rises steadily. The use of this arrangement is also advantageous for continuous steam generators with rated powers down to far below 500 MW.

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IPC 8 full level

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