

Title (en)

A HEAT EXCHANGER UNIT FOR RECOVERING HEAT FROM A HOT GAS FLOW

Title (de)

WÄRMETAUSCHEREINHEIT ZUR RÜCKGEWINNUNG VON WÄRME AUS DEM HEISSGASSTROM

Title (fr)

UNITE D'ECHANGEUR DE CHALEUR DESTINEE A RECUPERER DE LA CHALEUR A PARTIR D'UN ECOULEMENT DE GAZ CHAUD

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2007077293A1] A heat exchanger unit for recovering heat from a hot gas flow to a medium flow, which heat exchanger comprises an enclosure structure (30, 31, 31'), a gas flow inlet (25'), in which the gas is adapted to flow in a substantially vertical direction, and a gas flow outlet (36), in which heat exchanger unit the enclosure structure encompasses several heat exchangers (21, 22, 23, 24) provided with an essentially gas-tight wall and arranged at least partially within each other with respect to the longitudinal axis (26) of the enclosure structure so that the gas flow is arranged to pass every time in a space, which is formed of two within each other arranged heat exchangers. The enclosure structure comprises a bottom section (31'), against which the heat exchangers are mainly supported by means of a support arrangement (32), and the support arrangement comprises an opening surface (28) in at least one of the heat exchangers for allowing the through-flow of the gas from one side of the heat exchanger to the other side thereof. The invention also relates to a method, in which heat is transferred to the first heat exchanger (21) in the flow direction of the organic medium to cool the gas flow to its final temperature.

IPC 8 full level

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Citation (examination)

- US 3352289 A 19671114 - CUNNINGHAM JR RICHARD, et al
- NETZ, HEINRICH: "Dampfkessel", 1957, B. G. TEUBNER VERLAGSGESELLSCHAFT, Stuttgart

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