

Title (en)

APPARATUS FOR ENSURING HEAT EXCHANGE BETWEEN A GAS FLOW AND A HEAT EXCHANGER

Publication

EP 0052009 B1 19840613 (EN)

Application

EP 81305324 A 19811110

Priority

US 20547980 A 19801110

Abstract (en)

[origin: EP0052009A2] Apparatus for ensuring heat exchange between a gas flow and a heat exchanger comprises a duct (2) through which the gas flows. The heat exchanger (6, 44) is mounted in the duct such that the gas flows therethrough. Constrictions for the gas flow are arranged in the duct upstream of the heat exchanger in the direction (A) of gas flow such that jets of gas are created. The constrictions are provided by flow passages extending through a diaphragm (24, 124, 224, 324, 424, 524, 624, 724) mounted across the duct. In use liquid is sprayed over the heat exchanger (6, 44) and the high velocity jets of gas pick up the liquid and carry it into the heat exchanger. In this way the surfaces of the heat exchanger are thoroughly wetted by the liquid and the efficiency of the heat transfer is thereby improved.

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F28D 5/02

IPC 8 full level

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