

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.

IPC 1-7

**F28D 5/02**

IPC 8 full level

**F28D 5/00** (2006.01); **F28D 5/02** (2006.01)

CPC (source: EP)

**F28D 5/02** (2013.01)

Cited by

US2016174418A1; EP0942249A3; EP0969260A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0052009 A2 19820519; EP 0052009 A3 19821110; EP 0052009 B1 19840613**; DE 3164224 D1 19840719; JP H0127358 B2 19890529; JP S57108590 A 19820706

DOCDB simple family (application)

**EP 81305324 A 19811110**; DE 3164224 T 19811110; JP 18028481 A 19811110