

Title (en)

HEAT EXCHANGER FOR HEAT EXCHANGE BETWEEN A HOT GAS AND A FLOW IN TUBE BUNDLE HEAT SURFACES, PARTICULARLY A STEAM GENERATOR FOR GAS-COOLED HIGH-TEMPERATURE REACTORS

Publication

EP 0215214 B1 19881207 (DE)

Application

EP 86109002 A 19860702

Priority

DE 3529634 A 19850819

Abstract (en)

[origin: US4694897A] A heat exchanger for heat exchange between a hot gas and a flowing medium that is conveyed in tube bundle heat transfer surfaces, especially a steam generator. The heat exchanger includes a pressure tank, the heat exchanger vessel in which are disposed tube bundles, and a hot gas conduit that is connected with a gas inlet of the heat exchanger wall. Also included are a gas guidance tube, a gas outlet to a circulation fan, and inlets and outlets for the flowing medium. The gas guiding tube opens into the heat exchanger from the side, and an annular channel is disposed after the gas inlet in the heat exchanger wall. The annular channel is delimited inwardly by a riser that forms the gas outlet and is disposed concentrically relative to the walls of the pressure tank and the heat exchanger. The gas from this annular chamber enters the tube bundles and, after being deflected, enters the riser that leads to the circulation fan. The riser extends from the annular chamber in the direction of the tube bundles to the outlet ends of the latter.

IPC 1-7

F22B 1/18

IPC 8 full level

F22B 1/18 (2006.01); **F28D 7/16** (2006.01)

CPC (source: EP US)

F22B 1/1823 (2013.01 - EP US); **F28D 7/1669** (2013.01 - EP US); **Y10S 165/407** (2013.01 - EP US)

Cited by

CN102313482A

Designated contracting state (EPC)

CH FR GB LI

DOCDB simple family (publication)

EP 0215214 A1 19870325; EP 0215214 B1 19881207; DE 3529634 A1 19870226; DE 3529634 C2 19870730; US 4694897 A 19870922

DOCDB simple family (application)

EP 86109002 A 19860702; DE 3529634 A 19850819; US 89737986 A 19860818