

Title (en)

HOT-GAS COOLER FOR A COAL GASIFICATION PLANT

Publication

EP 0048326 B1 19840321 (DE)

Application

EP 81105939 A 19810728

Priority

CH 705180 A 19800919

Abstract (en)

[origin: US4395268A] The hot gas cooler comprises a vertical cylindrical pressure vessel and, disposed axially thereof, an insert which is closed over its periphery and embodied by sealingly welded-together tubes. The tubes are part of the heated pressure system of a vapor generator. The chamber bounded by the insert communicates at the top, by way of a gas supply passage extending through the pressure vessel with a reaction chamber and at the bottom, by way of a discharge passage, with a slag removal facility. Extending around the insert is a jacket embodied by sealingly welded-together tubes, so that an annular chamber closed off from the casing of the pressure vessel extends around the insert. The annular chamber communicates at the bottom with the insert chamber. Disposed in the top part of annular chamber is a coolable gas discharge passage which is connected to the jacket and extends through the pressure vessel.

IPC 1-7

C10J 3/86; **F22B 1/18**

IPC 8 full level

F28D 7/16 (2006.01); **C10J 3/02** (2006.01); **C10J 3/86** (2006.01); **F22B 1/18** (2006.01)

CPC (source: EP US)

C10J 3/485 (2013.01 - EP US); **C10J 3/78** (2013.01 - EP US); **C10J 3/86** (2013.01 - EP US); **F22B 1/1846** (2013.01 - EP US); **C10J 2300/1807** (2013.01 - EP US)

Cited by

DE3713912C1; EP0251005A1; EP0199251A1; US4738224A; EP0131099A3; EP0763589A1; US5873329A; EP0099833A1; FR2530796A1; WO8400411A1; WO2009042274A1; WO9710315A3; US8376034B2

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