

Title (en)

NON-PLUGGING, PRESSURE EQUALIZED TUBE SHEET FOR GASIFICATION SYSTEM HEAT EXCHANGER

Publication

**EP 0094097 A3 19840509 (EN)**

Application

**EP 83104681 A 19830511**

Priority

US 37723082 A 19820511

Abstract (en)

[origin: EP0094097A2] A heat exchanger with a cooling subsystem and a pressure equalizing system (82) is used in cooling raw gas from a carbonaceous material gasification system. This raw gas contains entrained particles which act as a severe abrasive. A tube sheet onto which this raw gas directly impinges is cooled by a coolant maintained at the same pressure as the raw gas, using a pressure equalizing system comprising a surge tank with a gas/liquid interface to allow pressure transmittal without movement of one fluid into the system of the other fluid.

IPC 1-7

**F28F 19/00**; **F28F 9/02**

IPC 8 full level

**F28D 7/16** (2006.01); **C10J 3/86** (2006.01); **F28F 9/02** (2006.01); **F28F 19/00** (2006.01)

CPC (source: EP KR)

**C10J 3/485** (2013.01 - EP); **C10J 3/723** (2013.01 - EP); **C10J 3/86** (2013.01 - EP); **F28D 3/00** (2013.01 - KR); **F28F 9/0229** (2013.01 - EP); **F28F 19/00** (2013.01 - EP); **C10J 2300/1892** (2013.01 - EP)

Citation (search report)

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Designated contracting state (EPC)

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**EP 83104681 A 19830511**; AU 1397883 A 19830427; CA 426401 A 19830421; ES 522237 A 19830510; JP 8244483 A 19830510; KR 830002024 A 19830511; ZA 833020 A 19830428