

Title (en)

Non-plugging, pressure equalized tube sheet for gasification system heat exchanger.

Title (de)

Nicht verstopfende Rohrenplatte mit Druckausgleichsystem für Kohlevergasungswärmetauscher.

Title (fr)

Plaque tubulaire, pas bouchante, à pression égalisée pour échangeur de chaleur à gazéification.

Publication

**EP 0094097 A2 19831116 (EN)**

Application

**EP 83104681 A 19830511**

Priority

US 37723082 A 19820511

Abstract (en)

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

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CPC (source: EP KR)

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Cited by

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Designated contracting state (EPC)

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**EP 0094097 A2 19831116**; **EP 0094097 A3 19840509**; AU 1397883 A 19831117; CA 1196909 A 19851119; ES 522237 A0 19840416; ES 8404502 A1 19840416; JP S58205085 A 19831129; KR 840004571 A 19841022; ZA 833020 B 19840530

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