

Title (en)

Heat exchanger for cooling cracking gas

Title (de)

Wärmetauscher zum Kühlen von Spaltgas

Title (fr)

Echangeur de chaleur pour refroidissement de gaz de craquage

Publication

EP 0718579 A3 19971008 (DE)

Application

EP 95111740 A 19950726

Priority

DE 4445687 A 19941221

Abstract (en)

[origin: EP0718579A2] A heat exchanger to cool cracked gases has a pair of concentric tubes (6,4), forming a cooling jacket around the gas in the inner cooling tube (4). At each end of the tubes a chamber (7,8) is welded to them, for the supply and removal of cooling medium. In the novel construction, the water chambers are sturdily fabricated from thick metal strip, and have a number of tube assemblies along their length. For each cooling tube (4), there is a surrounding circular depression (11). These are spaced apart along the strip and their diameter is at least as large as that of the outer tube (6). At the base of each depression is a thin circular section (12).

IPC 1-7

F28F 9/02; **F28D 7/10**; **F28F 9/18**; **C10G 9/00**

IPC 8 full level

C10G 9/00 (2006.01); **C10G 9/18** (2006.01); **F28D 7/00** (2006.01); **F28D 7/10** (2006.01); **F28F 9/02** (2006.01); **F28F 9/16** (2006.01); **F28F 9/18** (2006.01)

CPC (source: EP US)

C10G 9/002 (2013.01 - EP US); **C10G 9/18** (2013.01 - EP US); **F28D 7/106** (2013.01 - EP US); **F28F 9/02** (2013.01 - EP US); **F28F 9/18** (2013.01 - EP US); **F28D 2021/0075** (2013.01 - EP US)

Citation (search report)

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- [Y] US 5035283 A 19910730 - BRUECHER PETER [DE], et al
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CN101975527A; EP2151652A3; KR101432321B1; EP2151652A2; DE102008036955A1; EP0810414B1

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EP 0718579 A2 19960626; **EP 0718579 A3 19971008**; **EP 0718579 B1 19991110**; DE 4445687 A1 19960627; DE 59507221 D1 19991216; JP 3605681 B2 20041222; JP H0979789 A 19970328; US 5579831 A 19961203

DOCDB simple family (application)

EP 95111740 A 19950726; DE 4445687 A 19941221; DE 59507221 T 19950726; JP 22596895 A 19950810; US 51923895 A 19950825