

Title (en)

HEAT EXCHANGER, ESPECIALLY FOR COOLING CRACKED GASES

Publication

EP 0290813 B1 19910306 (DE)

Application

EP 88106024 A 19880415

Priority

DE 3715713 A 19870512

Abstract (en)

[origin: US4858684A] A heat exchanger is especially for cooling cracked gases with boiling water. It consists of pipes (1) that the gas to be cooled flows through and that are surrounded by a cooling jacket with a coolant flowing through it. The end of each pipe that faces the gas intake is surrounded by a sleeve. The coolant flows through the sleeve. The volume of coolant flowing through the sleeve is less than the heat supplied from the gas being cooled. (FIG. 1).

IPC 1-7

C10G 9/00; F28F 13/00; F28F 19/00

IPC 8 full level

C10G 9/00 (2006.01); **F28D 7/16** (2006.01); **F28F 9/02** (2006.01); **F28F 9/22** (2006.01); **F28F 13/00** (2006.01); **F28F 19/00** (2006.01)

CPC (source: EP US)

F28F 9/0229 (2013.01 - EP US); **F28F 9/22** (2013.01 - EP US); **F28D 2021/0075** (2013.01 - EP US); **F28F 2009/226** (2013.01 - EP US)

Cited by

EP3614053A1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

DE 3715713 C1 19880721; DE 3861898 D1 19910411; EP 0290813 A1 19881117; EP 0290813 B1 19910306; JP S63297995 A 19881205; US 4858684 A 19890822

DOCDB simple family (application)

DE 3715713 A 19870512; DE 3861898 T 19880415; EP 88106024 A 19880415; JP 10743288 A 19880428; US 19311688 A 19880511