

Title (en)

Transfer-line cooler.

Title (de)

Kühler für Transferleitung.

Title (fr)

Refroidisseur de conduit de transfert.

Publication

**EP 0205205 A1 19861217 (EN)**

Application

**EP 86200931 A 19860528**

Priority

NL 8501514 A 19850528

Abstract (en)

A transfer-line exchanger is disclosed having two separate heat exchanging zones (20,30) or compartments. Specifically, the transfer-line exchanger is comprised of a tube or tubes (24) through which the hot gas (61) being cooled is flowed. Each tube (24) is contained in a larger, outer tube or a number of tubes contained in the shell (21). Each outer tube or the shell (21) is divided into two compartments or zones (20,30) through which the cooling medium is flowed. The compartments or zones (27,37) in the outer tubes or shell are designed such that the hot gas flowing through the tube or tubes (24) is sequentially cooled by a cooling medium flowing through the first compartment (27) at a first temperature and a cooling medium flowing through a second compartment or zone (37) at a second and generally lower temperature. The tubes of the two sections are connected by intermediate tubes (24C) loosely held in guide sleeves (11,12) on the ends of the two sections. Although the transfer-line exchangers of the present invention are described with reference to two heat exchanging zones or compartments, additional cooling by means of additional compartments or zones can be affected.

IPC 1-7

**F28D 7/16**; **F28F 9/00**

IPC 8 full level

**F28D 7/00** (2006.01); **F28D 7/16** (2006.01); **F28F 9/00** (2006.01); **F28F 9/26** (2006.01)

CPC (source: EP)

**C10G 9/002** (2013.01); **F28D 7/0091** (2013.01); **F28D 7/16** (2013.01); **F28F 9/00** (2013.01); **F28F 9/26** (2013.01); **F28D 2021/0075** (2013.01); **F28F 2265/26** (2013.01)

Citation (search report)

- [Y] FR 2256778 A1 19750801 - SUN VENTURES INC [US]
- [Y] US 4103738 A 19780801 - AYDELOTT MAX M, et al
- [AD] EP 0089742 A2 19830928 - EXXON RESEARCH ENGINEERING CO [US]
- [A] EP 0118134 A1 19840912 - STORK AMSTERDAM [NL]

Cited by

WO2007008397A1; WO2007008406A1; US7465388B2; US7780843B2; CN109696078A; CN100436798C; KR100966962B1; EP2330175A3; US2013001132A1; US9175229B2; KR100966961B1; CN105135917A; US5591404A; NL1021111C2; EP1198996A3; EP1382927A3; US8524070B2; CN106062139A; KR20160146678A; JP2017512233A; WO2015128034A1; US7718049B2; WO2012015494A2; US7674366B2; US10000708B2; US7749372B2; US7972482B2; US7981374B2; WO2007008424A1; WO2004083758A3; JP2009500493A; JP2009500492A; EP2330175A2; US8074707B2; US7763162B2; US9279395B2; US10358958B2

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

**EP 0205205 A1 19861217**; NL 8501514 A 19861216

DOCDB simple family (application)

**EP 86200931 A 19860528**; NL 8501514 A 19850528