

Title (en)

HEAT EXCHANGER HAVING A COMPACT DESIGN

Title (de)

WÄRMETAUSCHER IN KOMPAKTBAUWEISE

Title (fr)

ÉCHANGEUR DE CHALEUR AYANT UNE CONFIGURATION COMPACTE

Publication

EP 2948726 A2 20151202 (EN)

Application

EP 14742909 A 20140123

Priority

- US 201361756784 P 20130125
- US 2014012706 W 20140123

Abstract (en)

[origin: WO2014116805A2] Disclosed is a heat exchanger having an economizer configured as a ring of tubes in a periphery of the heat exchanger. The heat exchanger includes a cylindrical flue collector and a manifold at either end of the cylindrical flue collector. The manifold has a plurality of chambers. The manifold can be made of steel or plastic and governs fluid flow rate and direction within a ring of tubes. At least two rings of heat exchanging tubes, an outer ring and an inner ring, are within the cylindrical flue collector. The rings of tubes are concentric with respect to each other.

IPC 8 full level

F28F 9/22 (2006.01); **F24H 1/40** (2006.01); **F28D 21/00** (2006.01); **F28F 1/00** (2006.01)

CPC (source: EP US)

F28D 7/1676 (2013.01 - EP US); **F28D 21/0007** (2013.01 - EP US); **F28F 1/006** (2013.01 - EP US); **F28F 9/22** (2013.01 - EP US);
F24D 12/02 (2013.01 - EP US); **F24D 2200/18** (2013.01 - EP US); **F24H 1/36** (2013.01 - EP US); **F28F 1/12** (2013.01 - EP US);
F28F 9/182 (2013.01 - EP US); **F28F 21/067** (2013.01 - EP US); **F28F 21/083** (2013.01 - EP US); **F28F 21/086** (2013.01 - EP US);
Y02B 30/00 (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2014116805 A2 20140731; **WO 2014116805 A3 20141002**; CA 2899275 A1 20140731; EP 2948726 A2 20151202;
EP 2948726 A4 20161207; US 2015323265 A1 20151112

DOCDB simple family (application)

US 2014012706 W 20140123; CA 2899275 A 20140123; EP 14742909 A 20140123; US 201414762952 A 20140123