

Title (en)
Heat exchanger with adapter

Title (de)
Wärmetauscher mit Adapter

Title (fr)
Echangeur de chaleur avec adaptateur

Publication
EP 0762072 A2 19970312 (EN)

Application
EP 96306434 A 19960905

Priority
• US 52597995 A 19950907
• US 69014596 A 19960731

Abstract (en)
The lack of flexibility in selecting locations for inlets or outlets or crossovers for a heat exchange fluid in a heat exchanger can be minimized in a heat exchanger construction including first and second spaced, generally parallel, tubular headers (10,12) having opposed ends with a plurality of tubes (20) in parallel and spaced from one another which extend between and have their ends in fluid communication with the interior of the headers (10,12). An adapter (90) in fluid communication with the interior of the headers (10,12) is fixed to the exterior of the heat exchanger to place the heat exchanger in communication with fluid conduits that may be disposed in a variety of locations in relation to the heat exchanger.

IPC 1-7
F28F 9/04; **F28D 1/03**

IPC 8 full level
F28F 9/02 (2006.01); **F28D 1/053** (2006.01); **F28F 9/04** (2006.01)

CPC (source: EP KR)
F28D 1/05391 (2013.01 - EP KR); **F28F 9/0246** (2013.01 - KR); **F28F 9/0253** (2013.01 - EP)

Cited by
FR2962800A1; EP1795847A3; FR3034183A1; EP3879217A4; US9651317B2; US12000657B2; US9885432B2; EP1314946A1; EP2660550A4; WO2012007133A1; WO2011124A1; WO2016151082A1

Designated contracting state (EPC)
AT DE ES FR GB IT NL SE

DOCDB simple family (publication)
EP 0762072 A2 19970312; **EP 0762072 A3 19980204**; **EP 0762072 B1 20010718**; AR 003533 A1 19980805; AT E203319 T1 20010815; AU 6448496 A 19970313; AU 700639 B2 19990107; CA 2184647 A1 19970308; CN 1114814 C 20030716; CN 1155067 A 19970723; DE 69613918 D1 20010823; DE 69613918 T2 20011108; ES 2158248 T3 20010901; JP H09113176 A 19970502; KR 980010327 A 19980430

DOCDB simple family (application)
EP 96306434 A 19960905; AR 10427396 A 19960906; AT 96306434 T 19960905; AU 6448496 A 19960905; CA 2184647 A 19960903; CN 96112609 A 19960906; DE 69613918 T 19960905; ES 96306434 T 19960905; JP 24099296 A 19960826; KR 19960038419 A 19960905