

Title (en)  
HEAT EXCHANGER WITH CENTER MANIFOLD

Title (de)  
WÄRMETAUSCHER MIT MITTELVERTEILER

Title (fr)  
ÉCHANGEUR DE CHALEUR À COLLECTEUR CENTRAL

Publication  
**EP 3196585 A1 20170726 (EN)**

Application  
**EP 17150275 A 20170104**

Priority  
US 201615003452 A 20160121

Abstract (en)  
A heat exchange device (100) includes a first section (102) and a second section (104). Each of the first and second sections (102, 104) includes flow passages (110) configured to cool fluid. A center manifold (106) is disposed between the first and second sections (102, 104). Hot fluid enters the manifold at one end (112), passes through the first and second sections (102, 104) and cooled fluid exits the manifold at the opposing end (114). Each of the flow passages (110) can have a bend (130) at an outer edge of the heat exchange device (100) configured to return high pressure fluid to the center manifold (106).

IPC 8 full level  
**F28F 9/02** (2006.01); **F28D 1/04** (2006.01); **F28D 1/047** (2006.01); **F28D 7/00** (2006.01); **F28D 7/06** (2006.01); **F28F 1/40** (2006.01)

CPC (source: EP US)  
**F28D 1/0408** (2013.01 - EP US); **F28D 1/0476** (2013.01 - EP US); **F28D 7/0066** (2013.01 - EP US); **F28D 7/06** (2013.01 - EP US); **F28D 9/0068** (2013.01 - US); **F28F 1/40** (2013.01 - EP US); **F28F 3/04** (2013.01 - US); **F28F 9/0075** (2013.01 - US); **F28F 9/02** (2013.01 - EP US); **F28F 9/26** (2013.01 - US); **F28D 2021/0021** (2013.01 - US); **F28D 2021/0026** (2013.01 - US); **F28F 2009/224** (2013.01 - US); **F28F 2210/04** (2013.01 - US); **F28F 2225/04** (2013.01 - US); **F28F 2250/102** (2013.01 - US); **F28F 2255/00** (2013.01 - US)

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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)  
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DOCDB simple family (publication)  
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