

Title (en)  
SPIRAL FLAT-TUBE HEAT EXCHANGER

Title (de)  
SPIRALFLACHROHRWÄRMETAUSCHER

Title (fr)  
ÉCHANGEUR DE CHALEUR À TUBE PLAT EN SPIRALE

Publication  
**EP 2029952 A4 20130116 (EN)**

Application  
**EP 06770957 A 20060523**

Priority  
US 2006019920 W 20060523

Abstract (en)  
[origin: WO2007136379A1] A spiral flat tube heat exchanger comprising a first flat tube and a second flat tube thermally coupled to the first flat tube, the first flat tube and the second flat tube forming substantially concentric spirals. A first fluid flows through the first flat tube in a first flow direction, and second fluid flows through the second flat tube in a second flow direction. The flat tubes preferably contain microchannels to increase heat transfer efficiency.

IPC 8 full level  
**F28D 7/14** (2006.01); **F28D 7/00** (2006.01); **F28D 7/04** (2006.01)

CPC (source: EP US)  
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Citation (search report)

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- [X] JP 2003329375 A 20031119 - DENSO CORP
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- See references of WO 2007136379A1

Designated contracting state (EPC)  
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**WO 2007136379 A1 20071129**; CN 101490494 A 20090722; EP 2029952 A1 20090304; EP 2029952 A4 20130116; US 2009114380 A1 20090507

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**US 2006019920 W 20060523**; CN 200680055382 A 20060523; EP 06770957 A 20060523; US 30223906 A 20060523