

Title (en)  
Heat exchanger with tilted pipe sections

Title (de)  
Wärmetauscher mit geneigten Rohrabschnitten

Title (fr)  
Échangeur de chaleur à tubes avec des sections penchés

Publication  
**EP 2295913 B1 20130605 (EN)**

Application  
**EP 10173013 A 20100817**

Priority  
JP 2009191138 A 20090820

Abstract (en)  
[origin: EP2295913A2] A spiral heat-transfer pipe (2a-2h) for heat exchange provided in a heat exchanger (1) includes: an upstream heat-transfer pipe section (22) disposed on an upstream side of a flow path of an external fluid flowing outside the spiral heat-transfer pipe (2); and a downstream heat-transfer pipe section (24) disposed on a downstream side of the flow path. Each of the heat-transfer pipe sections (22, 24) is disposed so as to extend in a direction crossing the flow path of the external fluid. Each of an axis (12) of the upstream heat-transfer pipe section (22) and an axis (14) of the downstream heat-transfer pipe section (24) is tilted with respect to a horizontal plane. Also, the axis (12) of the upstream heat-transfer pipe section (22) crosses the axis (14) of the downstream heat-transfer pipe section (24).

IPC 8 full level  
**F28D 7/02** (2006.01); **F28D 7/16** (2006.01); **F28F 9/013** (2006.01); **F28F 17/00** (2006.01)

CPC (source: EP US)  
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