

Title (en)
PLATE HEAT EXCHANGER

Title (de)
PLATTENWÄRMETAUSCHER

Title (fr)
ÉCHANGEUR THERMIQUE À PLAQUES

Publication
EP 2420791 A4 20140305 (EN)

Application
EP 10764664 A 20100415

Priority
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Abstract (en)
[origin: EP2420791A2] A plate heat exchanger capable of increasing the fluidity of a fluid and realizing improved heat exchange efficiency, wherein each of stacked heat exchange elements are formed by assembling upper and lower plates, with first and second flow channels for first and second fluids respectively defined in each element and between the elements, inlet and outlet ports formed in opposite ends of the element, upper and lower flanges formed on the respective upper and lower plates, and upper and lower flow grooves diagonally extending on the lower surface of the upper plate and on the upper surface of the lower plate and intersecting with each other to define the first flow channel, wherein a flow guide structure for guiding the first fluid in at least two flow directions is provided on each of the areas around the inlet and outlet ports of the upper and lower plates.

IPC 8 full level
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Citation (search report)
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• [Y] EP 0252275 A2 19880113 - SCHMIDT W GMBH CO KG [DE]
• [A] WO 9739301 A1 19971023 - ALFA LAVAL AB [SE], et al
• [A] KR 100892109 B1 20090408 - KOREA DELPHI AUTOMOTIVE SYSTEM [KR]
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