

Title (en)  
FLAT PLATE HEAT TRANSFER DEVICE

Title (de)  
FLACHE PLATTENWÄRMEÜBERTRAGUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE TRANSFERT THERMIQUE A PLAQUE PLANE

Publication  
**EP 1676086 A4 20080102 (EN)**

Application  
**EP 04774703 A 20040923**

Priority  
• KR 2004002450 W 20040923  
• KR 20030068874 A 20031002

Abstract (en)  
[origin: WO2005031238A1] Disclosed is a flat plate heat transfer device, which includes a thermal-conductive flat case installed between a heat source and a heat emitting unit and containing a working fluid which is evaporated with absorbing heat from the heat source and is condensed with emitting heat to the heat emitting unit; and one layer of mesh installed in the flat case and configured so that wires are woven to be alternately crossed up and down. A dispersion channel of a vapor is formed along a surface of the wire from a cross point of the mesh near the heat source, and a flow channel of a liquid is formed by means of a capillary phenomenon along a length direction of the wire from a mesh lattice near the heat emitting unit to a mesh lattice near the heat source.

IPC 8 full level  
**F28D 15/02** (2006.01); **F28D 15/04** (2006.01); **H01L 23/427** (2006.01); **H01L 23/373** (2006.01)

CPC (source: EP KR US)  
**F28D 15/02** (2013.01 - KR); **F28D 15/0233** (2013.01 - EP US); **F28D 15/046** (2013.01 - EP US); **H01L 23/427** (2013.01 - EP US); **H01L 23/3733** (2013.01 - EP US); **H01L 2924/0002** (2013.01 - EP US)

Citation (search report)  
• No further relevant documents disclosed  
• See references of WO 2005031238A1

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DOCDB simple family (publication)  
**WO 2005031238 A1 20050407**; CN 100507429 C 20090701; CN 1864043 A 20061115; EP 1676086 A1 20060705; EP 1676086 A4 20080102; JP 2007507685 A 20070329; KR 20050032888 A 20050408; TW 200513627 A 20050416; TW I260388 B 20060821; US 2007068656 A1 20070329

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