

Title (en)  
Plastic plate heat exchanger

Title (de)  
Plattenwärmeübertrager aus Kunststoff

Title (fr)  
échangeur de chaleur à plaques en matière plastique

Publication  
**EP 2508832 B1 20150617 (DE)**

Application  
**EP 12160825 A 20120322**

Priority  
DE 102011001818 A 20110405

Abstract (en)  
[origin: EP2508832A1] The heat exchanger (1) has profiled heat transfer plates (2) made of continuous carbon fibers with high thermal conductivity. The plates have wave crests (7) and troughs (8) provided in direction obliquely to longitudinal axis. The plates are rotated about transverse axis and are made to contact on compound horizontal corrugations (9). The contact surfaces (16) of intersecting wave crests and abutting high edge regions of through openings of plates are sealed or glued together. The plastic matrix of heat exchanger is provided with carbon nanotubes and graphene.

IPC 8 full level  
**F28D 9/00** (2006.01); **F28F 3/08** (2006.01); **F28F 9/02** (2006.01); **F28F 21/02** (2006.01)

CPC (source: EP)  
**F28D 9/005** (2013.01); **F28F 3/083** (2013.01); **F28F 9/0221** (2013.01); **F28F 9/0273** (2013.01); **F28F 21/02** (2013.01)

Cited by  
US2016209119A1; CN115790217A; FR3028515A1; CN110296620A; CN110296621A; CN109891181A; FR3051837A1; CN109196295A; CN107289810A; US11874071B2; US11066981B2; US11313622B2; EP3677863A1; FR3091581A1; WO2016075290A3; WO2017203143A1; WO2016118417A1

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