

Title (en)  
Plate heat exchanger

Title (de)  
Plattenwärmetauscher

Title (fr)  
Echangeur de chaleur à plaques

Publication  
**EP 1191297 A2 20020327 (EN)**

Application  
**EP 01307730 A 20010911**

Priority  
GB 0023427 A 20000923

Abstract (en)  
A heat exchanger 6 has two inlets 63 and 64 and two outlets 65 and 66 for two counterflow air paths 7 and 8 through a stack plates 70. The plates 70 are vacuum-formed, each having a section 71 with zigzag walls 72 forming multiple flow channels 73 between adjacent plates. The edges of the plates have walls 90, 90' that nest with one another and are retained and sealed between ribs 95 on two side plates 14 and 15. Four grilles 16 to 19 at the inlets and outlets have bars 97 with recesses 99 retaining the edges of pairs of plates 70, the bars being separated by spaces 98 allowing air to flow between adjacent pairs of plates and into or out of the air paths 7 and 8. <IMAGE>

IPC 1-7  
**F28D 9/00**

IPC 8 full level  
**B21D 53/04** (2006.01); **F24F 7/08** (2006.01); **F28D 9/00** (2006.01); **F28D 9/02** (2006.01); **F28F 3/04** (2006.01); **F28F 3/08** (2006.01); **F28F 3/10** (2006.01); **F28F 9/00** (2006.01)

CPC (source: EP US)  
**F28D 9/0068** (2013.01 - EP US); **F28F 3/046** (2013.01 - EP US); **F28F 9/001** (2013.01 - EP US); **F28F 2250/108** (2013.01 - EP US); **F28F 2275/085** (2013.01 - EP US)

Cited by  
NL1030270C2; EP3444556A1; EP1426722A1; FR2848292A1; US8516698B2; US11408687B2; US7044206B2; WO2019034642A1

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