

Title (en)  
IMPROVEMENTS IN PLATE HEAT-EXCHANGERS.

Title (de)  
VERBESSERUNG VON PLATTENWÄRMETAUSCHERN.

Title (fr)  
AMELIORATIONS DANS LES ECHANGEURS DE CHALEUR A PLAQUES.

Publication  
**EP 0670988 A4 19951122 (EN)**

Application  
**EP 94901695 A 19931206**

Priority  
• AU 9300627 W 19931206  
• AU PL622392 A 19921207

Abstract (en)  
[origin: WO9414021A1] A plate heat-exchanger (12) has an assembly of plates (16) defining and separating alternate passages (14, 16) for the flow of a refrigerant and a heat-exchange fluid. Aligned holes (15) in the plates (16) provide inlets and outlets for the refrigerant and heat-exchange fluid to the respective passages (14, 16). A refrigerant distribution tube (26, 37) is located in the refrigerant inlet defined by holes (15). The tube (26, 37) has outlet apertures (27, 38) which direct refrigerant into the refrigerant passage (14). Blanking members (29, 39) blank off part of the opening into each refrigerant passage (14) to confine the refrigerant flow from the apertures (27, 38) to a predetermined path towards the plate centreline to ensure even refrigerant distribution.

IPC 1-7  
**F28F 3/00**; **F28F 3/12**; **F28F 27/02**

IPC 8 full level  
**F28F 3/08** (2006.01); **F25B 39/02** (2006.01); **F28D 9/00** (2006.01); **F28F 9/02** (2006.01); **F28F 9/22** (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP)  
**F25B 39/028** (2013.01); **F28D 9/0043** (2013.01); **F28D 9/0056** (2013.01); **F28F 9/027** (2013.01); **F28F 9/0273** (2013.01); **F25B 39/022** (2013.01); **F28D 2021/0071** (2013.01)

Citation (search report)  
• [X] DE 3310236 A1 19840927 - AUTOKUEHLER GES MBH [DE]  
• [X] GB 2250336 A 19920603 - NIPPON DENSO CO [JP]  
• [X] EP 0106544 A1 19840425 - KOBE STEEL LTD [JP]  
• [X] DE 3106822 A1 19821014 - SCHNEEKLOTH HANS  
• [A] WO 8607418 A1 19861218 - ALFA LAVAL FOOD & DAIRY ENG [SE]  
• See references of WO 9414021A1

Cited by  
CN108068581A

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9414021 A1 19940623**; AU 5619594 A 19940704; AU 686582 B2 19980212; CA 2151129 A1 19940623; CN 1065624 C 20010509; CN 1094156 A 19941026; EP 0670988 A1 19950913; EP 0670988 A4 19951122; IL 107850 A0 19940412; JP H08504027 A 19960430; MX 9307692 A 19940630; PT 101421 A 19950504; TW 232049 B 19941011; ZA 939173 B 19940808

DOCDB simple family (application)  
**AU 9300627 W 19931206**; AU 5619594 A 19931206; CA 2151129 A 19931206; CN 93121143 A 19931207; EP 94901695 A 19931206; IL 10785093 A 19931202; JP 51355994 A 19931206; MX 9307692 A 19931206; PT 10142193 A 19931206; TW 82110281 A 19931206; ZA 939173 A 19931207