

Title (en)  
Plate heat exchanger

Title (de)  
Plattenwärmetauscher

Title (fr)  
Echangeur à plaques

Publication  
**EP 0515669 B2 19981014 (FR)**

Application  
**EP 92903209 A 19911220**

Priority  
• FR 9016060 A 19901221  
• FR 9101046 W 19911220

Abstract (en)  
[origin: US5333681A] PCT No. PCT/FR91/01046 Sec. 371 Date Oct. 20, 1992 Sec. 102(e) Date Oct. 20, 1992 PCT Filed Dec. 20, 1991 PCT Pub. No. WO92/11500 PCT Pub. Date Jul. 9, 1992. The invention relates to a plate-type heat exchanger comprising a stack (1) of plates (2) for heat exchange between fluids which circulate between each other, said stack being placed within a pressure vessel (3). The invention is characterized in that it comprises rigid means for suspension of said stack (1) from said vessel (3) at the level of at least a first collector circuit which comprises a first connecting box (21; 23) at the upper end of the stack (1) and guides a first of said fluids between said end and the exterior of the vessel (3).

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

IPC 8 full level  
**F28D 9/00** (2006.01); **F28F 9/007** (2006.01)

CPC (source: EP US)  
**F28D 9/0006** (2013.01 - EP US); **F28F 9/0075** (2013.01 - EP US); **F28F 2265/26** (2013.01 - EP US)

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

DOCDB simple family (publication)  
**US 5333681 A 19940802**; AT E112846 T1 19941015; DE 69104607 D1 19941117; DE 69104607 T2 19950216; DE 69104607 T3 19990506; EP 0515669 A1 19921202; EP 0515669 B1 19941012; EP 0515669 B2 19981014; FR 2670877 A1 19920626; FR 2670877 B1 19960913; JP H05507348 A 19931021; WO 9211500 A1 19920709

DOCDB simple family (application)  
**US 93783092 A 19921020**; AT 92903209 T 19911220; DE 69104607 T 19911220; EP 92903209 A 19911220; FR 9016060 A 19901221; FR 9101046 W 19911220; JP 50354191 A 19911220