

Title (en)  
Heat exchanger.

Title (de)  
Wärmetauscher.

Title (fr)  
Echangeur thermique perfectionné.

Publication  
**EP 0517578 A1 19921209 (FR)**

Application  
**EP 92401503 A 19920602**

Priority  
FR 9106655 A 19910603

Abstract (en)  
Heat exchanger of the type comprising a means of heating producing hot gases for the purpose of heating a fluid, in particular water, intended more specifically for heating rooms and/or sanitary water, characterised in that it comprises: - a tubular circuit (10) having the general shape of a U passed through by the hot gases and positioned in an enclosure (18) in which the fluid to be heated circulates; - a bank of fins (26) fixed on said tubular circuit (10) in order to improve the heat exchanges between the hot gases circulating in said tubular circuit and the fluid circulating in said enclosure, and - a pipe (28), in which the sanitary water to be heated circulates and which is coiled in a spiral inside said enclosure and kept in heat-exchange contact with said bank of fins. <IMAGE>

IPC 1-7  
**F24H 1/28; F24H 1/52**

IPC 8 full level  
**F24H 1/28** (2006.01); **F24H 1/52** (2006.01); **F28D 7/00** (2006.01); **F28D 7/14** (2006.01)

CPC (source: EP)  
**F24H 1/287** (2013.01); **F24H 1/52** (2013.01); **F24H 1/526** (2013.01); **F28D 7/0008** (2013.01); **F28D 7/14** (2013.01)

Citation (search report)  
• [A] DE 3824367 A1 19900125 - ROEHNER ERNST [DE]  
• [A] DE 3838507 A1 19900517 - ROEHNER ERNST [DE]  
• [A] EP 0008568 A1 19800305 - BERNSTEIN LENNART  
• [A] FR 2208503 A5 19740621 - CARLIER MARCEL [FR]

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EP2787314A4; CN100451527C; WO2010072530A3

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

DOCDB simple family (publication)  
**EP 0517578 A1 19921209**; FR 2677113 A1 19921204; FR 2677113 B1 19931126

DOCDB simple family (application)  
**EP 92401503 A 19920602**; FR 9106655 A 19910603