

Title (en)  
HEATER AND/OR COOLER

Title (de)  
HEIZER UND/ODER KÜHLER

Title (fr)  
DISPOSITIF DE CHAUFFAGE ET/OU DE REFROIDISSEMENT

Publication  
**EP 1252470 A1 20021030 (EN)**

Application  
**EP 01902931 A 20010130**

Priority  
• SE 0100172 W 20010130  
• SE 0000336 A 20000201

Abstract (en)  
[origin: WO0157452A1] The present invention concerns a heater and/or cooler comprising at least one tank (2) with at least one inner space (3) and at least one plate heat exchanger (4a, 4b) for at least two heat exchanging fluids, which heat exchanger (4a, 4b) is permanently joined and comprises at least one core of plates with a plurality of heat exchanging plates (5a, 5b) and at least two end plates (6a, 6b, 7a, 7b), the heat exchanging plates (5a, 5b) creating plate interspaces between each other. Each one of the heat exchanging plates (5a, 5b) is provided with one or several corrugations and at least two port holes being parts of at least one inlet channel (10a, 10b) and at least one outlet channel (11a, 11b), respectively, through the core of plates for at least one of the fluids, a first inlet channel (10a, 10b) and a first outlet channel (11a, 11b) being intended for a first fluid and being in fluid communication with a first set of plate interspaces. The said at least one plate heat exchanger (4a, 4b) is housed in the said at least one tank (2), a second set of plate interspaces being in fluid communication with the said at least one inner space (3) in the said at least one tank (2).

IPC 1-7  
**F24H 1/20**; **F28D 1/03**

IPC 8 full level  
**F28D 9/00** (2006.01); **F28F 9/26** (2006.01)

CPC (source: EP)  
**F28D 9/0037** (2013.01); **F28D 9/0043** (2013.01); **F28D 9/0093** (2013.01); **F28F 9/26** (2013.01); **F28F 2250/102** (2013.01)

Citation (search report)  
See references of WO 0157452A1

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

DOCDB simple family (publication)  
**WO 0157452 A1 20010809**; AT E291204 T1 20050415; AU 3069401 A 20010814; DE 60109418 D1 20050421; EP 1252470 A1 20021030; EP 1252470 B1 20050316; SE 0000336 D0 20000201; SE 0000336 L 20010802; SE 518190 C2 20020910

DOCDB simple family (application)  
**SE 0100172 W 20010130**; AT 01902931 T 20010130; AU 3069401 A 20010130; DE 60109418 T 20010130; EP 01902931 A 20010130; SE 0000336 A 20000201