

Title (en)  
Air humidifying and water heating device

Title (de)  
Einrichtung zur Luftbefeuchtung und Wassererwärmung

Title (fr)  
Dispositif d'humidification d'air et de chauffage d'eau

Publication  
**EP 0775875 A3 19971105 (DE)**

Application  
**EP 96810792 A 19961114**

Priority  
CH 332595 A 19951124

Abstract (en)  
[origin: EP0775875A2] The equipment has a coolant circuit (10) with two coolant compressors (1,2) which can be staggered, an air condenser (5), a water condenser (7), and a valve (11). The valve is a magnetic three-way or passage valve, and guides the coolant via one of the condensers and via a heat convector (15) which heats the air which is cooled in the vaporiser (3), using the residual heat in the hot gas. The heat convector may be arranged before an expansion valve (6) in the coolant circuit, in order heat the air which is cooled in the vaporiser.

IPC 1-7  
**F24F 3/153**; **F24F 5/00**

IPC 8 full level  
**F24F 3/153** (2006.01); **F24F 5/00** (2006.01)

CPC (source: EP)  
**F24F 3/153** (2013.01); **F24F 5/0096** (2013.01); **F24F 2221/183** (2013.01)

Citation (search report)  
• [YA] US 4607498 A 19860826 - DINH KHANH [US]  
• [Y] DE 3415881 A1 19851031 - GEIER HENNINGER KURT [DE]

Cited by  
CN106288507A; WO2014101396A1; EP1717522B1

Designated contracting state (EPC)  
AT CH DE LI

DOCDB simple family (publication)  
**EP 0775875 A2 19970528**; **EP 0775875 A3 19971105**; **EP 0775875 B1 20010523**; AT E201503 T1 20010615; DE 59606946 D1 20010628

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