

Title (en)  
Thermal convection device with natural draft for reversible air-conditioning unit

Title (de)  
Konvektionsheizungsgerät mit natürlichem Zug für umkehrbare Klimaanlage

Title (fr)  
Convecteur thermique de climatisation reversible à tirage naturel

Publication  
**EP 0878668 B1 20030409 (FR)**

Application  
**EP 98401121 A 19980511**

Priority  
FR 9705836 A 19970513

Abstract (en)  
[origin: EP0878668A1] The heater or cooler, for use e.g. in home or office, consists of a casing (70) with an inner convection chamber (50) with an air intake grille (61) at the bottom and an outlet (71) in its lower front face. The convection chamber is divided into front (51) and rear (52) compartments by a vertical partition (53), and has a heat source (5) in the lower part of the rear compartment. The heater or cooler also incorporates a cold source (101) in a second air intake (100) in the upper part of its rear compartment (90), made e.g. in the form of a heat exchanger connected to a source of iced water. Both heater and cooler can be connected, for example, to a reversible heat pump (110) situated outside the building.

IPC 1-7  
**F24F 1/00**

IPC 8 full level  
**F24F 1/0063** (2019.01)

CPC (source: EP US)  
**F24F 1/0063** (2019.01 - EP US); **F24F 2007/004** (2013.01 - EP US)

Cited by  
EP1202002A3; NL2004089C2; CN105387548A; EP2034247A1; FR2920527A1; DE10140189A1; DE10140189B4; DE10015581C1;  
EP1139031A3; WO2011087360A1

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DOCDB simple family (publication)  
**EP 0878668 A1 19981118; EP 0878668 B1 20030409**; AT E237106 T1 20030415; DE 69813075 D1 20030515; ES 2195287 T3 20031201;  
FR 2763389 A1 19981120; FR 2763389 B1 19990618; PT 878668 E 20030731

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