

Title (en)

Heat exchanger or heat pump with cross flow fan

Title (de)

Wärmetauscher oder Wärmepumpe mit Querstromlüfter

Title (fr)

Emetteur de chaud ou de froid ou pompe à chaleur à ventilateur tangentiel

Publication

**EP 0943876 B1 20030528 (FR)**

Application

**EP 99400642 A 19990316**

Priority

FR 9803369 A 19980319

Abstract (en)

[origin: EP0943876A1] The heater/cooler or pump has a heat exchanger, a tangential fan in a chamber (16) with a spiral outlet (15) and a porous deflector (10). The fan has no spiral projection (21) on its intake side, while its rotor blades (23) are inclined at an angle of over 50 degrees. Planes taken from the tip (20) of the deflector and the nearest point on the housing on the fan's intake side meet at an angle of over 180 degrees at the center of the rotor.

IPC 1-7

**F24F 1/00**; **F04D 17/04**; **F04D 29/28**

IPC 8 full level

**F04D 17/04** (2006.01); **F04D 29/28** (2006.01); **F24F 1/0057** (2019.01); **F24F 1/0063** (2019.01); **F24F 1/0067** (2019.01); **F24F 1/0071** (2019.01); **F24F 1/0083** (2019.01)

CPC (source: EP US)

**F04D 17/04** (2013.01 - EP); **F04D 29/283** (2013.01 - EP); **F24F 1/0014** (2013.01 - EP); **F24F 1/0025** (2013.01 - EP); **F24F 1/0033** (2013.01 - EP); **F24F 1/0057** (2019.02 - EP US); **F24F 1/0063** (2019.02 - EP US); **F24F 1/0067** (2019.02 - EP US); **F24F 1/0071** (2019.02 - EP US); **F24F 1/0083** (2019.02 - EP US)

Cited by

CN106152280A; EP2019950A4

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI NL PT

DOCDB simple family (publication)

**EP 0943876 A1 19990922**; **EP 0943876 B1 20030528**; AT E241784 T1 20030615; DE 69908225 D1 20030703; FR 2776369 A1 19990924; FR 2776369 B1 20000505

DOCDB simple family (application)

**EP 99400642 A 19990316**; AT 99400642 T 19990316; DE 69908225 T 19990316; FR 9803369 A 19980319