

Title (en)  
INDUCTION AIR CONDITIONING PANEL

Title (de)  
INDUKTIONS-KLIMA-PANEEL

Title (fr)  
PANNEAU DE CLIMATISATION

Publication  
**EP 3851749 A1 20210721 (EN)**

Application  
**EP 20460048 A 20201223**

Priority  
PL 43255520 A 20200113

Abstract (en)  
Subject of the invention is induction air-conditioning panel with increased inductance designed for cooling, heating and together with heat recovery pipe or heat recovery panel for room's ventilation with heat/cool recovery from exhaust air. The devices uses the air induction phenomenon, Coanda effect and dynamic pressure recovery to increase static pressure for heating and cooling. The units can also be supplied with low temperature cooling water. Special design allows to keep its minimal dimensions, in particular in depth, making the solution one of the most compact solutions on the market of heating and air conditioning devices. The device allows to increase the intensity of air induction from the room at suction side of unit. The special design enables installation directly in the outer partition of the room. There is no need to distance the device from the wall to induce air from the room and air free flow to the heat exchanger integrated with the device. The device can be used as a fully integrated monoblock for ventilation, cooling and heating requiring only electric power which may come from photovoltaic panels. The device can also work as a semi-integrated ventilation, cooling and heating device cooperating with external air-to-water or water-to-water heat pumps and other ecological sources of heat and cold.

IPC 8 full level  
**F24F 1/00** (2019.01); **F24F 1/0007** (2019.01); **F24F 1/01** (2011.01); **F24F 5/00** (2006.01); **F24F 13/26** (2006.01)

CPC (source: EP)  
**F24F 1/0007** (2013.01); **F24F 1/01** (2013.01); **F24F 5/0089** (2013.01); **F24F 13/26** (2013.01)

Citation (search report)

- [XY] EP 3236173 A1 20171025 - CAVERION DEUTSCHLAND [DE]
- [Y] EP 3117155 A1 20170118 - FLÄKT WOODS AB [SE]
- [Y] DE 4310686 A1 19941006 - STETTNER GOTTFRIED [DE]
- [Y] DATABASE WPI Week 202003, Derwent World Patents Index; AN 2020-30562J, XP002803216

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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BA ME

DOCDB simple family (publication)  
**EP 3851749 A1 20210721**; PL 243607 B1 20230918; PL 432555 A1 20210719

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