

Title (en)

AIR-CONDITIONING DEVICE USING SOLAR ENERGY TO HEAT OR COOL AN ENCLOSED SPACE

Title (de)

KLIMAAANLAGE UNTER VERWENDUNG VON SONNENENERGIE ZUM HEIZEN ODER KÜHLEN EINES GESCHLOSSENEN RAUMES

Title (fr)

DISPOSITIF DE CLIMATISATION UTILISANT L'ENERGIE SOLAIRE POUR LE CHAUFFAGE OU LE REFROIDISSEMENT D'UN ESPACE CLOS

Publication

EP 1751474 A1 20070214 (FR)

Application

EP 05760049 A 20050420

Priority

- FR 2005000982 W 20050420
- FR 0404350 A 20040423

Abstract (en)

[origin: WO2005111517A1] An air-conditioning device for use in enclosed spaces, including a solar collector mainly comprising a hollow cover exposed to sunlight and provided with an air inlet (16), a solar radiation absorber (32), at least one fan for generating an air flow through the device and an electric power supply means for the fan. According to a main feature of the invention, the device includes a temperature sensor for the air inside the chamber, a temperature sensor for the air inside the solar collector, a means for automatically controlling fan rotation depending on the measured temperatures either to extract air from the inside of the chamber and blow it out or to inject outside air heated in the flap into the room in order to cool or heat the air inside the chamber.

IPC 8 full level

F24J 2/40 (2006.01); **F24F 5/00** (2006.01); **F24S 10/50** (2018.01)

CPC (source: EP)

F24F 5/0042 (2013.01); **F24F 5/0046** (2013.01); **F24S 20/63** (2018.04); **F24S 50/40** (2018.04); **F24F 2005/0064** (2013.01); **F24S 2030/16** (2018.04); **Y02A 30/272** (2017.12); **Y02B 10/20** (2013.01); **Y02E 10/40** (2013.01)

Citation (search report)

See references of WO 2005111517A1

Cited by

CN110265331A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005111517 A1 20051124; CA 2563795 A1 20051124; EP 1751474 A1 20070214; FR 2869401 A1 20051028; FR 2869401 B1 20070209

DOCDB simple family (application)

FR 2005000982 W 20050420; CA 2563795 A 20050420; EP 05760049 A 20050420; FR 0404350 A 20040423