

Title (en)

SOLAR HEATING SYSTEM, AIR-CONDITIONING SYSTEM AND ACCUMULATOR HEATING PLATE THEREFOR

Title (de)

SOLARHEIZSYSTEM, KLIMATISIERUNGSSYSTEM UND SPEICHERHEIZPLATTE HIERFÜR

Title (fr)

SYSTÈME SOLAIRE, SYSTÈME DE CLIMATISATION ET PLAQUE CHAUFFANTE À ACCUMULATION

Publication

EP 2507560 A2 20121010 (DE)

Application

EP 10744543 A 20100716

Priority

- DE 102009026201 A 20090717
- EP 2010060369 W 20100716

Abstract (en)

[origin: WO2011007009A2] The present invention relates to an accumulator temperature control plate, comprising a panel heating and/or cooling unit and a latent heat accumulator, wherein the base plate is provided with a clay or cement-based plate base material, and to a solar heating system for building, comprising a solar heating element or a photovoltaic cell and at least one accumulator temperature control plate, comprising a panel heating unit that can be heated by the solar heating element and a latent heat accumulator. The invention further relates to a method for air conditioning a building, comprising at least one accumulator temperature control plate. During winter, while the ambient temperatures are cold, a panel heating element of the accumulator temperature control plate is heated, and more particularly is heated by solar energy. After a certain room temperature is exceeded, the latent heat accumulator is charged, and at night, as the building cools down when the heater is not operated, the latent heat accumulator is discharged, and thereby gives off the energy thereof, while in the summer the latent heat accumulator withdraws heat from the building when a certain temperature is exceeded, and thereby contributes to cooling the same and the latent heat accumulator is charged. At night, when the temperatures decline, the latent heat accumulator is discharged by ventilating or cooling the building and by the associated cooling down of the building.

IPC 8 full level

F24D 13/02 (2006.01); **F24D 18/00** (2022.01); **F24S 10/70** (2018.01)

CPC (source: EP US)

E04C 2/525 (2013.01 - EP); **F24D 13/022** (2013.01 - EP); **F24D 18/00** (2022.01 - EP US); **F24H 7/002** (2013.01 - EP US); **F24S 60/00** (2018.04 - EP US); **F24S 60/10** (2018.04 - EP US); **F28D 20/023** (2013.01 - EP); **F24D 2101/40** (2022.01 - EP US); **F24D 2103/17** (2022.01 - EP US); **F24D 2220/10** (2013.01 - EP); **Y02B 10/20** (2013.01 - EP); **Y02B 30/00** (2013.01 - EP); **Y02E 10/40** (2013.01 - EP); **Y02E 60/14** (2013.01 - EP); **Y02E 70/30** (2013.01 - EP)

Citation (search report)

See references of WO 2011007009A2

Citation (examination)

- DE 20305942 U1 20030626 - TRANSSOLAR ENERGIE-TECHNIK GMBH [DE], et al
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CN104433264A

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2011007009 A2 20110120; **WO 2011007009 A3 20130307**; EP 2507560 A2 20121010

DOCDB simple family (application)

EP 2010060369 W 20100716; EP 10744543 A 20100716