

Title (en)
THE COMBINED CONSTRUCTIONAL-ENERGETIC SYSTEM FOR BUILDINGS

Title (de)
KOMBINIERTE BAU-ENERGIE-SYSTEME FÜR GEBÄUDE

Title (fr)
SYSTÈME COMBINÉ D'ÉCO-CONSTRUCTION DE BÂTIMENTS

Publication
EP 2567155 A2 20130313 (EN)

Application
EP 11716444 A 20110225

Priority

- SK 50272010 U 20100507
- SK 50142010 A 20100507
- SK 2011000002 W 20110225

Abstract (en)
[origin: WO2011139241A2] A complex creation of the internal environment of buildings with regard to the immediate or seasonal requirements shall be made by directed accumulation of heat from solar absorbers (1), which takes place in the two stages, where in the first phase, the heat accumulates to at least one short-term heat storage (2) based on liquid, solid substance or a change in condition and in the second phase, the heat accumulates to at least one long-term heat storage (3) heat-based on liquid or solid state change, while for phase resolution of heat accumulation is the criterion full heat capacity of short-term heat storage (2) which is achieved in the absence of solar energy by a top source (17) of heat. By active thermal protection built-in the packaging building structures that is provided by heat or cold distributed to thermal barrier wall (4) and at least by one of the three phases, where in the first phase heat distribution is implemented directly from solar absorbers (1); Heating which is provided by the heat distributed to low-temperature heating unit (6) and from at least one short-term heat reservoir (2) or from at least one long-term reservoir of heat or by mixing of substance from both heat reservoirs. Hot air heating or venting, receiving or donating of heat or cold in heat recovery ventilation unit (7), placed in a building with preheating or cooling the air in heat exchangers placed in.

IPC 8 full level
F24D 5/00 (2006.01); **F24D 19/10** (2006.01)

CPC (source: EP US)
F24D 5/005 (2013.01 - EP); **F24D 19/1075** (2013.01 - EP US); **F24D 19/109** (2013.01 - EP US); **F24D 2200/04** (2013.01 - EP); **F24D 2200/11** (2013.01 - EP); **F24D 2200/12** (2013.01 - EP); **F24D 2200/14** (2013.01 - EP); **F24F 5/0021** (2013.01 - EP); **Y02B 10/20** (2013.01 - EP); **Y02B 10/40** (2013.01 - EP); **Y02B 10/70** (2013.01 - EP)

Citation (search report)
See references of WO 2011139241A2

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2011139241 A2 20111110; WO 2011139241 A3 20130124; EP 2567155 A2 20130313

DOCDB simple family (application)
SK 2011000002 W 20110225; EP 11716444 A 20110225