

Title (en)

DEVICE FOR COLLECTING RAINWATER AND SOLAR ENERGY ORIGINATING FROM VISIBLE RADIATION

Title (de)

VORRICHTUNG ZUM AUFFANGEN VON REGENWASSER UND VON SICHTBARER STRAHLUNG STAMMENDER SONNENENERGIE

Title (fr)

DISPOSITIF DE CAPTATION DES EAUX PLUVIALES ET DE L ENERGIE SOLAIRE PROVENANT DU RAYONNEMENT LUMINEUX

Publication

EP 1869267 A1 20071226 (FR)

Application

EP 06743599 A 20060324

Priority

- FR 2006000655 W 20060324
- FR 0502997 A 20050325
- FR 0510429 A 20051013
- FR 0510946 A 20051026

Abstract (en)

[origin: WO2006100395A1] The invention relates to a device for collecting rainwater and calories originating from solar radiation in order to drain the rainwater and to generate domestic hot water or heating water. The inventive device can be mounted at the base of a roof or on the edge of a balcony, said device consisting of an open channel (2) comprising longitudinal walls and lateral walls (7, 8). The invention is characterised in that a translucent or transparent cover element (3) is mounted inside the open channel (2) and is held in place by the aforementioned lateral walls (7, 8) such as to define an impervious closed chamber (2b) inside the open channel. The invention is also characterised in that a heat exchanger device (12), through which a heat-transfer fluid can flow, is mounted inside the closed chamber (2b). The invention is further characterised in that the translucent cover element (3), together with at least part of one longitudinal wall of the channel (2), defines a flow section for the rainwater.

IPC 8 full level

E04D 13/18 (2006.01); **E04D 13/064** (2006.01); **F24J 2/04** (2006.01); **F24J 2/46** (2006.01); **F24S 10/40** (2018.01); **F24S 10/75** (2018.01)

CPC (source: EP US)

E04D 13/064 (2013.01 - EP US); **F24S 10/75** (2018.04 - EP US); **F24S 20/67** (2018.04 - EP US); **F24S 70/30** (2018.04 - EP US); **Y02B 10/20** (2013.01 - EP US); **Y02E 10/44** (2013.01 - EP US)

Citation (search report)

See references of WO 2006100395A1

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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006100395 A1 20060928; EP 1869267 A1 20071226; FR 2883588 A1 20060929; FR 2883588 B1 20080118; US 2008190412 A1 20080814

DOCDB simple family (application)

FR 2006000655 W 20060324; EP 06743599 A 20060324; FR 0510946 A 20051026; US 90964806 A 20060324