

Title (en)

SOLAR MODULE FOR THE HYBRID USE OF SOLAR RADIATION AND SOLAR MODULE ARRANGEMENT

Title (de)

SOLARMODUL FÜR DIE HYBRIDE NUTZUNG DER SONNENSTRAHLUNG UND SOLARMODULANORDNUNG

Title (fr)

MODULE SOLAIRE POUR L'UTILISATION HYBRIDE DU RAYONNEMENT SOLAIRE ET AGENCEMENT DE MODULES SOLAIRES

Publication

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Application

EP 08801108 A 20080801

Priority

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Abstract (en)

[origin: WO2009015659A2] The invention relates to a solar module for the use of solar radiation for generating current or current and heat. This solar module has, in addition to the effective or hybrid energy conversion, a relatively linear characteristic with a steep rise and fall and generates a relatively high amount of work by means of a tracking system. The object of the invention is therefore to reduce the technical complexity involved for a solar module when tracking the solar trajectory and to keep the solar characteristic as linear as possible within a wide range, to increase the current yield by targeted concentration of the insolation and improved cooling and to increase the thermal yield in the case of hybrid use. A further object is to enable a light arrangement of solar modules which is favourable in terms of flow on external facades of buildings and towers incorporating tracking of the solar trajectory. According to the invention, the object is achieved by the features of claim 1. According to said claim, rotary bearings (5) are arranged in or on a transparent tubular housing (1). The photovoltaic cells (9) with supports, possibly cooling elements (6) fastened therebeneath and reflectors (7) extending along the photovoltaic cells (9) are at least partially connected to one another. Some or all of the elements (6, 7, 9, 10) are mounted pivotably on the rotary bearing (5). A drive (4) with a control unit is coupled to these elements (6, 7, 9, 10), with the result that these elements (6, 7, 9, 10) are capable of tracking the solar trajectory, with the housing (1) being fixed.

IPC 8 full level

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Citation (search report)

See references of WO 2009015659A2

Cited by

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