

Title (en)

REFLECTOR FOR SOLAR THERMAL SYSTEMS, AND METHOD FOR PRODUCING SUCH A REFLECTOR

Title (de)

REFLEKTOR FÜR SOLARTHERMISCHE SYSTEME UND VERFAHREN ZUR HERSTELLUNG EINES SOLCHEN REFLEKTORS

Title (fr)

RÉFLECTEUR POUR SYSTÈMES HÉLIOTHERMIQUES ET PROCÉDÉ DE FABRICATION D'UN TEL RÉFLECTEUR

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2015067368A1] The invention relates to a reflector for solar thermal systems, comprising a sheet metal support (5) and a reflective coating (6) which is applied onto the sheet metal support and which is made of at least one reflective metal layer (6.2) and at least one protective layer (6.3) applied onto the reflective layer. The invention additionally relates to a method for producing a reflector for solar thermal systems. The reflector according to the invention for solar thermal systems has a high reflectivity, is robust against mechanical loads, and can additionally be produced in an inexpensive manner. Furthermore, the reflector according to the invention is as lightweight as possible and simultaneously dimensionally stable in that the sheet metal support (5) is made of a sandwich sheet which has an upper and a lower sheet metal cover (5.1, 5.3) and at least one non-metal intermediate layer (5.2) arranged between the upper and lower sheet metal cover. The upper sheet metal cover (5.1) has a smoothed surface (7) onto which the reflective layer (6.2) is applied, and the smoothed surface (7) has an arithmetic average roughness value Ra of less than 0.03 µm prior to applying the reflective layer (6.2).

IPC 8 full level

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Citation (search report)

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