

Title (en)
SELECTIVE ABSORBER FOR CONVERTING SUNLIGHT INTO HEAT, AND METHOD AND DEVICE FOR THE PRODUCTION THEREOF

Title (de)
SELEKTIVER ABSORBER ZUR UMWANDLUNG VON SONNENLICHT IN WÄRME, EIN VERFAHREN UND EINE VORRICHTUNG ZU DESSEN HERSTELLUNG

Title (fr)
ABSORBEUR SELECTIF POUR TRANSFORMER LA LUMIERE SOLAIRE EN CHALEUR, AINSI QUE PROCEDE ET DISPOSITIF POUR SA PRODUCTION

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Application
EP 05733673 A 20050420

Priority

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Abstract (en)
[origin: WO2005104173A1] The invention relates to a selective absorber for converting sunlight into heat, said absorber being composed of thin layers on a substrate, preferably aluminum, copper, or steel. The thin layers are made of two layer systems. The first layer system, which borders the substrate, comprises at least one layer that is made of tight, i.e. void-free material composed of titanium, aluminum, nitrogen, carbon, and oxygen. Said material has the chemical formula $Ti_aAl_{ss}N_xCyO_z$. The superimposed second system comprises at least one layer that is made of a mixture of TiO_2 and Al_2O_3 .

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