

ÜSİMP ULUSAL PATENT FUARI '23

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SOLAR SELECTIVE COATING FOR MID-HIGH TEMPERATURE SOLAR THERMAL APPLICATIONS

- Sektör: Enerji
- Fikri Hak Koruma Durumu: Patent Tescil Edildi
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ÖZET

The present invention relates to a solar selective coating for a metal substrate comprising at least one absorber layer and at least one semi - absorber layer selected from the structures of AlTiN and AlTiSiN . In preferred embodiments , the solar selective coating according to the present invention is a double layer coating with AlTiN — AlTiN or AlTiSiN AlTiSiN formation . The process for producing the coating includes a step of treatment of the metal substrate with a reactive magnetron sputtering system .

TANITIM

The present invention relates to an improved coating and a method for the preperation thereof for application in solar selective coatings. More particularly, the invention relates to mid-high tempreture solar selective coatings for applications on metal substrates which coatings are highly slable, durable, cost effective and efficient in terms of absorplanes and emmitance.



Beklenti

Licencing, Sale.

Teknoloji Hazırlık Seviyesi

TRL 7 – System prototype demonstration in operational environment.