

Title (en)

ANTICORROSION MIRROR, METHOD FOR PRODUCING SAME, AND USES THEREOF IN SOLAR ENERGY COLLECTION

Title (de)

ANTIKORROSIONSSPIEGEL, HERSTELLUNGSVERFAHREN DAFÜR UND VERWENDUNGEN DAFÜR BEIM SAMMELN VON SOLARENERGIE

Title (fr)

MIROIR ANTICORROSION, SON PROCEDE DE FABRICATION ET SES APPLICATIONS DANS LA RECUPERATION DE L'ENERGIE SOLAIRE

Publication

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Application

EP 10708991 A 20100315

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Abstract (en)

[origin: WO2010103125A1] The present invention relates to a corrosion-resistant "all-metal" mirror, including: a glass substrate (A); a silver coating (B) with a thickness eAg deposited on at least one surface of the substrate by a non-electrolytic metallisation that comprises spraying, onto said substrate surface, at least one aerosol containing silver in cation form (oxidiser) and at least one reducing agent capable of converting the silver cation into metal; at least one protective layer (C) containing at least one metal other than silver and deposited on the silver coating, characterised in that said protective layer has a thickness eM such that $0,3 \text{ eAg} = \text{eM} = 5 \text{ eAg}$, and is obtained by a non-electrolytic metallisation of the silver coating, said metallisation being carried out by spraying, onto the silver coating, at least one aerosol containing at least one metal, other than silver, in cation form (oxidiser), and at least one reducing agent capable of converting the metal cation into metal. The invention also relates to a method for producing such a mirror and to the use thereof in solar applications.

IPC 8 full level

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Citation (search report)

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