

Title (en)

METHOD FOR IMPROVING HEAT-PROTECTION GLAZINGS BY PREVENTING GLASS CORROSION CAUSED BY ALKALINE GLASS ATTACK AND BY PRIMING

Title (de)

VERFAHREN ZUR VERBESSERUNG VON HITZESCHUTZVERGLASUNGEN DURCH VERHINDERUNG DER GLASKORROSION, VERURSACHT DURCH ALKALISCHEN GLASANGRIFF, UND DURCH PRIMERUNG

Title (fr)

PROCÉDÉ SERVANT À AMÉLIORER DES VITRAGES DE PROTECTION THERMIQUE EN EMPÊCHANT LA CORROSION DU VERRE DUE AUX ATTAQUES ALCALINES ET EN FOURNISSANT UN APPRÊT

Publication

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Application

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Abstract (en)

[origin: WO2012006748A1] The invention relates to a translucent and preferably transparent fire protection element, which has at least two glass panes, between which there is at least one transparent fire-resistant protection layer made of a cured and water-containing alkali polysilicate, wherein each glass surface in contact with the protection layer is provided with a lye-resistant coating (a blocking layer) having a thickness of less than 100 nm, said coating being substantially made of oxides of multivalent cations and the reaction product thereof with the silicate of the glass surface. Said layers are preferably applied by means of reactive sputtering and are used to reduce (or prevent) glass corrosion and to provide priming that improves tear-off behavior in the event of a fire, thus increasing fire resistance capability.

IPC 8 full level

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