

Title (en)

METHOD FOR THE SURFACE TREATMENT OF A SPECIMEN THAT HAS AT LEAST ONE SURFACE OF A METAL OXIDE, AND METAL OXIDE HAVING A TREATED SURFACE

Title (de)

VERFAHREN ZUR OBERFLÄCHENBEHANDLUNG EINER PROBE DIE MINDESTENS EINE OBERFLÄCHE EINES METALLOXIDS AUFWEIST UND METALLOXID MIT BEHANDELTEN OBERFLÄCHE

Title (fr)

PROCÉDÉ POUR LE TRAITEMENT DE SURFACE D'UN ÉCHANTILLON QUI PRÉSENTE AU MOINS UNE SURFACE D'UN OXYDE MÉTALLIQUE ET OXYDE MÉTALLIQUE POURVU DE LA SURFACE TRAITÉE

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Application

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Abstract (en)

[origin: WO2019052598A1] The invention relates to a method by means of which surfaces of metal oxides that can be chemically reduced are reduced such that a subsequently applied metal film has increased adhesion. The method according to the invention comprises at least one first step (step a.) of dipping a specimen that has a surface of a metal oxide into an electrolyte solution, which comprises an electron transfer agent and optionally a wetting agent. Subsequently, in step b., a reducing agent is added and the surface of the metal oxide is reduced. The reduction is terminated by removing the specimen from the solution and eliminating residues of the solution on the surface, in step c. The present invention also relates to a metal oxide, the surface of which has been treated by the method according to the invention and which has a reduced surface having at least intermetallic phases, the adhesion of a metal layer applied to the reduced surface being improved in such a way that said metal layer cannot be removed by tearing off adhesive tape films applied to said metal layer – "Scotch tape method" – and cannot be wiped from the surface by means of a cleaning cloth.

IPC 8 full level

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