

Title (en)

METHOD FOR PRODUCING A SURFACE-FINISHED STEEL SHEET, AND SURFACE-FINISHED STEEL SHEET

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES OBERFLÄCHENVEREDELTEN STAHLBLECHS UND OBERFLÄCHENVEREDELTES STAHLBLECH

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE TÔLE D'ACIER TRAITÉE EN SURFACE, ET TÔLE D'ACIER TRAITÉE EN SURFACE

Publication

**EP 4107297 A1 20221228 (DE)**

Application

**EP 21705120 A 20210209**

Priority

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Abstract (en)

[origin: WO2021165088A1] The invention relates to a method for improving the wettability of a surface-finished steel sheet (10), in which a protective coating (2) based on Zn-Al-Mg is applied, wherein a native oxide layer comprising at least ZnO, Al<sub>2</sub>O<sub>3</sub> and MgO is formed after the application of the protective coating (2) and the steel sheet comprising the native oxide layer is subjected to at least one further treatment, to modify the native oxide layer, wherein the at least one further treatment comprises at least one heat treatment at a temperature for a period in a non-reducing atmosphere, wherein the non-reducing atmosphere, the temperature and the duration of the heat treatment are harmonized with one another in such a manner that the native oxide layer post-oxidizes, wherein in particular the resulting post-oxidized oxide layer (3) arising is greater than the native oxide layer.

IPC 8 full level

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