

Title (en)

METHOD FOR PRODUCING A DIFFUSION BLOCKING LAYER ON A METAL PLATE AND AN EXHAUST GAS TREATMENT UNIT

Title (de)

VERFAHREN ZUR ERZEUGUNG EINER DIFFUSIONSSPERRSCHICHT AUF EINEM METALLBLECH UND EINER ABGASBEHANDLUNGSEINHEIT

Title (fr)

PROCÉDÉ DE PRODUCTION D'UNE COUCHE ANTI-DIFFUSION SUR UNE TÔLE MÉTALLIQUE ET UNE UNITÉ DE TRAITEMENT DES GAZ D'ÉCHAPPEMENT

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Application

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Abstract (en)

[origin: WO2016012549A1] The invention relates to a method for producing a diffusion blocking layer (1) comprising aluminum oxide (8) on a metal plate (2), which consists of a base material (3) which contains at least iron (Fe) and chromium (Cr). The aluminum (10) required for forming the aluminum oxide (8) is contained in the base material (3). A layer made of titanium dioxide (4) serves as an oxygen contributor for the oxidation of the aluminum (10) to α -aluminum oxide. The invention further relates to an integration of said method into the production of an exhaust gas treatment unit (12), wherein the exhaust gas treatment unit (12) has a honeycomb body (13) and a housing (14) and at least the honeycomb body (13) or the housing (14) is formed with a metal plate (2) and the metal plate (2) consists of a base material (3) which contains at least iron (Fe) and chromium (Cr). According to the invention, the metal plate (2) comprises a surface layer (7) at least in one sub-region (5) which comprises at least aluminum oxide (8) and titanium oxide (9).

IPC 8 full level

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