

Title (en)

A method of forming a corrosion-resistant protective coating on aluminum substrate.

Title (de)

Verfahren zur Herstellung eines korrosionsbeständigen Schutzüberzugs auf Aluminiumsubstrat.

Title (fr)

Procédé de formation d'un revêtement protecteur résistant à la corrosion sur un substrat d'aluminium.

Publication

**EP 0460701 A1 19911211 (EN)**

Application

**EP 91109363 A 19910607**

Priority

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- US 53480790 A 19900607

Abstract (en)

A corrosion-resistant protective coating on an aluminum substrate is capable of withstanding corrosion attack by process halogen gases and plasmas. The protective coating is formed by contacting an aluminum oxide layer on an aluminum substrate with one or more fluorine-containing gases at an elevated temperature. In a preferred embodiment, a high purity corrosion-resistant protective coating on an aluminum substrate capable of withstanding corrosion attack is formed by first forming a high purity aluminum oxide layer on the aluminum substrate and then contacting the aluminum oxide layer with one or more high purity fluorine-containing gases at an elevated temperature to form the high purity corrosion resistant protective coating thereon.

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Citation (search report)

[X] US 4111762 A 19780905 - WADE JACKIE F, et al

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US2020010946A1; EP1120817A3; EP0902101A1; FR2730746A1; CN113026010A; US5811195A; EP0702098A1; US5756222A; US6280597B1; WO2019076601A1; US7713886B2

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