

Title (en)

METHOD FOR PRODUCING AN ARTICLE WITH AN ASEPTIC SURFACE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES GEGENSTANDES MIT ASEPTISCHER OBERFLÄCHE

Title (fr)

PROCEDE DE FABRICATION D'UN OBJET AYANT UNE SURFACE ASEPTIQUE

Publication

**EP 2176448 A1 20100421 (DE)**

Application

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Abstract (en)

[origin: EP2031099A1] The method for producing an article with an aseptic surface, comprises producing a porous oxide film by anodization on the article made of aluminum or aluminum alloy and intercalating metal with an antimicrobial effect in the pores of the oxide film from an electrolyte containing a metal salt with an antimicrobial effect. The article with the oxide film filled with metal with the antimicrobial effect is subsequently immersed in a pickling solution and the oxide film is partially removed uniformly at its surface. The oxide film is removed to 0.01-1  $\mu\text{m}$ . The method for producing an article with an aseptic surface, comprises producing a porous oxide film by anodization on the article made of aluminum or aluminum alloy and intercalating metal with an antimicrobial effect in the pores of the oxide film from an electrolyte containing a metal salt with an antimicrobial effect. The article with the oxide film filled with metal with the antimicrobial effect is subsequently immersed in a pickling solution and the oxide film is partially removed uniformly at its surface. The oxide film is removed to 0.01-1  $\mu\text{m}$ . The anodization of the oxide film is carried out in sulfuric acid/oxalic acid electrolyte to an oxide film thickness of 15-70  $\mu\text{m}$ . The partial removal of the oxide film is carried out in a liquid solution of caustic soda solution, sodium carbonate, nitric acid or sulfuric acid. The oxide film is condensed before or after the partial removal by a sealing process.

IPC 8 full level

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