

Title (en)
PROCESS FOR PRODUCING A SOL-GEL COATING ON A SURFACE TO BE COATED OF A COMPONENT AND ALSO CORRESPONDING COMPONENT

Title (de)
VERFAHREN ZUM HERSTELLEN EINER SOL-GEL-BESCHICHTUNG AUF EINER ZU BESCHICHTENDEN OBERFLÄCHE EINES BAUTEILS SOWIE ENTSPRECHENDES BAUTEIL

Title (fr)
PROCÉDÉ DE PRODUCTION D'UN REVÊTEMENT SOL-GEL SUR UNE SURFACE À REVÊTIR D'UN COMPOSANT ET COMPOSANT CORRESPONDANT

Publication
EP 2904132 A1 20150812 (DE)

Application
EP 13776454 A 20131008

Priority

- DE 202012009726 U 20121008
- DE 102012019969 A 20121008
- EP 2012074457 W 20121205
- EP 2013070981 W 20131008
- EP 13776454 A 20131008

Abstract (en)
[origin: WO2014056944A1] The invention relates to a process for producing a sol-gel coating on a surface to be coated of a component composed of aluminium or an aluminium alloy, which comprises the steps: anodization of the surface by application of an electric potential over a particular anodization time in order to form an anodization layer on the surface; and formation of the sol-gel coating on the surface. It is provided that the potential applied for anodization at the beginning of the anodization time is increased continuously with a particular potential gradient in the direction of a hold potential maintained over the remainder of the anodization time, in particular up to the hold potential. The invention further relates to a component composed of aluminium or an aluminium alloy.

IPC 8 full level
C25D 11/02 (2006.01); **C23C 18/04** (2006.01); **C23C 18/12** (2006.01); **C25D 11/24** (2006.01)

CPC (source: EP US)
C23C 18/04 (2013.01 - EP US); **C23C 18/1212** (2013.01 - EP US); **C23C 18/122** (2013.01 - EP US); **C23C 18/1245** (2013.01 - EP US); **C23C 18/1254** (2013.01 - EP US); **C23C 18/127** (2013.01 - EP US); **C25D 11/024** (2013.01 - EP US); **C25D 11/04** (2013.01 - US); **C25D 11/18** (2013.01 - EP US); **C25D 11/24** (2013.01 - EP US)

Citation (search report)
See references of WO 2014056944A1

Citation (examination)

- EP 2048266 A1 20090415 - TNO [NL]
- US 5693208 A 19971202 - PAULET JEAN-FRANÇOIS [CH]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2014056944 A1 20140417; EP 2904132 A1 20150812; US 2015259818 A1 20150917; US 9915008 B2 20180313

DOCDB simple family (application)
EP 2013070981 W 20131008; EP 13776454 A 20131008; US 201314434401 A 20131008