

Title (en)
METHOD FOR FORMING ANODIC OXIDE COATING ON SURFACE OF ALUMINUM OR ALUMINUM ALLOY

Title (de)
VERFAHREN ZUR AUSBILDUNG EINER ANODISCHEN OXIDBESCHICHTUNG AUF DER OBERFLÄCHE VON ALUMINIUM ODER ALUMINIUMLEGIERUNG

Title (fr)
PROCEDE DE FABRICATION D'UN REVETEMENT D'OXYDE ANODIQUE SUR UNE SURFACE D'ALUMINIUM OU D'ALLIAGE D'ALUMINIUM

Publication
EP 1593758 A4 20061129 (EN)

Application
EP 04705515 A 20040127

Priority

- JP 2004000684 W 20040127
- JP 2003022682 A 20030130

Abstract (en)
[origin: EP1593758A1] A surface treatment method capable of performing a thick layer machining of 300 to 500 μm which is high in hardness, excellent in heat resistance and antibiotic operation on a surface of any kind of aluminum material is provided. The method is characterized by performing an anodic oxidation treatment by using a bath liquid involving an aqueous solution containing 250 gr/l to 350 gr/l of sulfuric acid and 15 gr/l to 25 gr/l of nickel sulfate under the conditions of (a) bath liquid temperature: -10 DEG C to +25 DEG C; (b) voltage: DC 100 V to 200 V; and (c) current density: 0.5 A/dm² to 20 A/dm². To the above-described bath liquid, a low polymerization acrylic resin composition may further be added in the range of from 280 gr/l to 320 gr/l. <IMAGE>

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C25D 11/06; **C25D 11/04**

IPC 8 full level
C25D 11/06 (2006.01)

CPC (source: EP KR US)
C25D 11/04 (2013.01 - KR); **C25D 11/06** (2013.01 - EP KR US)

Citation (search report)

- [A] GB 1173990 A 19691210 - LANGBEIN PFANHAUSER WERKE AG [DE] & DIANDU YU HUANBAO , 22(2), 25-26 CODEN: DYHUEU; ISSN: 1000-4742, 2002
- [A] DATABASE CA [online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; XUE, FANGQIN ET AL: "Discussion on the anodization process for porcelain-like film on Al alloy", XP002401351, retrieved from STN Database accession no. 138:157048
- See references of WO 2004067807A1

Cited by
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EP 04705515 A 20040127; AU 2004207220 A 20040127; BR PI0407080 A 20040127; CA 2514271 A 20040127; CN 200480003309 A 20040127; JP 2004000684 W 20040127; JP 2005504706 A 20040127; KR 20057013998 A 20050729; MX PA05008032 A 20040127; TW 93101996 A 20040129; US 54253304 A 20040127