

Title (en)

PROCESS FOR THE SINGLE STEP ANODIC OXIDATION OF ALUMINIUM SUBSTRATES FOR OFFSET PRINTING PLATES

Publication

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Application

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Priority

DE 3328049 A 19830803

Abstract (en)

[origin: US4604341A] A process is disclosed for the production of bases for offset printing plates in the form of sheets, foils or webs made of roughened aluminum or one of its alloys, which is carried out in an anodic oxidation stage, i.e. in an aqueous electrolyte which contains phosphorus-containing anions. In the procedure, an electrolyte containing dissolved phosphoroxo anions, with the exception of aqueous H₃PO₄, is employed, and the treatment is carried out for a period of about 1 to 90 seconds, at a voltage between about 10 and 100 volts and at a temperature of about 10 DEG to 80 DEG C. The electrolyte is, in particular, a salt of an oxyacid of phosphorus, such as Na₃PO₄ or K₃PO₄. Hydrophilization of the base can be carried out additionally after the anodic oxidation. Also disclosed is a base material produced according to the process and an offset printing plate which includes the base material.

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