

Title (en)

METHOD FOR ELECTROCHEMICALLY METALLISING AN INSULATING SUBSTRATE

Title (de)

VERFAHREN ZUR ELEKTROCHEMISCHEN METALLISIERUNG EINES ISOLIERENDEN SUBSTRATS

Title (fr)

PROCEDE DE METALLISATION D'UN SUBSTRAT ISOLANT PAR VOIE ELECTROCHIMIQUE

Publication

EP 1228266 B1 20040204 (FR)

Application

EP 00966282 A 20001004

Priority

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Abstract (en)

[origin: US6764586B1] Provided is a process for metallizing an insulating substrate by depositing a uniform thin film of a metal on the insulating substrate. The process comprises placing the insulating substrate in an electrochemical cell which contains as the electrolyte a solution of a salt of the metal in a solvent, and which comprises an anode of the metal and a cathode in direct contact with the insulating substrate. A conducting film, which will constitute the cathode, is initially applied to one end of the substrate. The substrate is placed in the electrochemical cell in such a way that the surface to be metallized is vertical and the cathode is located in the upper part. A current is imposed on the electrochemical cell with an intensity such that it creates a current density of between 1 and 50 mA/cm² in the horizontal section of the electrochemical cell level with the growth front of the film which is deposited.

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