

Title (en)

METHOD FOR CONTINUOUS NICKEL-PLATING OF AN ALUMINIUM CONDUCTOR AND CORRESPONDING DEVICE

Title (de)

KONTINUIERLICHES VERNICKELN EINER ALUMINIUM-LEITER UND VORRICHTUNG DAZU

Title (fr)

PROCEDE DE NICKELAGE EN CONTINU D'UN CONDUCTEUR EN ALUMINIUM ET DISPOSITIF CORRESPONDANT

Publication

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Application

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Abstract (en)

[origin: US2002139685A1] A continuous nickel plating process for at least one aluminum conductor includes a pre-treatment step P that improves the adherence of a nickel coat, and an electrolytic nickel plating step N, and is characterized in that the contact properties of the conductor after the pre-treatment step P are sufficient to enable a mechanical electrical contact, and in that the nickel plating current ($I_n=I_1$) is transmitted to the conductor through a mechanical electrical contact on the part of the conductor output from the pre-treatment step (P). The invention is also directed to a device including a nickel plating tank with a receptacle that can contain a nickel plating bath and at least one electrode called the anode, containing nickel, at least one electrical power supply to apply a voltage (V1) between the electrode, or each electrode, and the conductor or each conductor, and means for moving the conductor in the nickel plating bath. The device also includes at least one pre-treatment tank with a receptacle that may contain a pre-treatment bath and means for moving the conductor, or each conductor, in the pre-treatment bath, and mechanical contact means for applying the voltage on the part of the conductor or each conductor, output from the pre-treatment step (P).

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