

Title (en)

METHOD FOR CONTINUOUSLY PRODUCING AN ELECTRICAL CONDUCTOR MADE OF COPPER-PLATED AND TIN-PLATED ALUMINIUM, AND CONDUCTOR SO PRODUCED

Title (de)

VERFAHREN ZUR KONTINUIERLICHEN HERSTELLUNG EINES ELEKTRISCHEN LEITERS AUS VERKUPFERTEN UND VERZINNTEN ALUMINIUM UND AUF DIESE WEISE HERGESTELLTER LEITER

Title (fr)

PROCEDE DE FABRICATION EN CONTINU D'UN CONDUCTEUR ELECTRIQUE EN ALUMINIUM CUIVRE ET ETAME, ET CONDUCTEUR AINSI OBTENU

Publication

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Application

**EP 94900865 A 19931122**

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Abstract (en)

[origin: US5665219A] PCT No. PCT/FR93/01148 Sec. 371 Date Jun. 1, 1995 Sec. 102(e) Date Jun. 1, 1995 PCT Filed Nov. 22, 1993 PCT Pub. No. WO94/13866 PCT Pub. Date Jun. 23, 1994 Process for continuous manufacture of an electrical conductor consisting of an at least partially aluminium-based central core coated by continuous electrodeposition with at least one metal layer, including pretreatment of the surface of the core, characterized in that the following are subsequently performed successively on the core, a) an electrochemical deposition of copper in an aqueous bath maintained at a temperature of between 20 DEG C. and 60 DEG C., containing KCN, CuCN, K<sub>2</sub>CO<sub>3</sub> and KNaC<sub>4</sub>H<sub>4</sub>O<sub>6</sub> with a current intensity of between 1 and 10 A/dm<sup>2</sup>; b) rinsing at ambient temperature; c) an electrochemical deposition of tin in an aqueous bath maintained at a temperature of between 20 DEG C. and 60 DEG C., containing essentially tin dissolved in methanesulphonic acid and, optionally, additives, with a current intensity of between 1 and 100 A/dm<sup>2</sup>; d) rinsing with water at 60 DEG C.

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