

Title (en)
METHOD FOR PRODUCING A WIRE FROM A FIRST METAL, COMPRISING A CLADDING LAYER MADE OF A SECOND METAL

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES DRAHTES AUS EINEM ERSTEN METALL MIT EINER MANTELSCHICHT AUS EINEM ZWEITEN METALL

Title (fr)
PROCÉDÉ DE PRODUCTION D'UN FIL COMPOSÉ D'UN PREMIER MÉTAL ET MUNI D'UNE COUCHE EXTÉRIEURE COMPOSÉE D'UN SECOND MÉTAL

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Application
EP 16730750 A 20160608

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Abstract (en)
[origin: WO2017008956A1] The invention relates to a method for coating a wire, which is made of a metal 1 selected from the group consisting of copper, silver, gold, nickel, and alloys of one of said metals with at least one other metal, with a cladding layer which is made of a metal 2 that differs from the metal 1 and is selected from the group consisting of nickel, silver, gold, ruthenium, platinum, palladium, rhodium, and alloys of one of said metals with at least one other metal, having the following steps: (a) providing a wire which is made of a metal 1 and has a cross-sectional surface area ranging from 75 to 200000 μm^2 , (b) providing a container with an inlet opening for the wire, the contour of the inlet opening corresponding to that of the wire to be coated or forming a gap which has a width of up to 20 μm and which at least partly surrounds the wire contour, (c) introducing the wire into the inlet opening, (d) filling a liquid coating composition, which is suitable for applying the cladding layer made of the metal 2 that differs from the metal 1, into the container, (e) guiding the wire in a straight manner through the liquid coating composition and the container and removing the wire from the container in the coated form, and (f1) drying the wire coated in step (e) or (f2) thermally treating the wire coated in step (e), wherein (i) the liquid coating composition is a composition which allows an electroless application of metal 2 onto a substrate made of the metal 1, or (ii) the wire is connected as a cathode, and the liquid coating composition is a composition which allows an electroplating process of a substrate, which is connected as a cathode and is made of the metal 1, using the metal 2.

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