Title (en)

METHOD FOR PRODUCING A WIRE FROM COPPER OR FROM A COPPER ALLOY BY MEANS OF EXTRUSION

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES DRAHTES AUS KUPFER ODER AUS EINER KUPFERLEGIERUNG MITTELS STRANGPRESSEN

Title (fr)

PROCÉDÉ DE FABRICATION D'UN FIL EN CUIVRE OU EN ALLIAGE DE CUIVRE PAR EXTRUSION

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Application

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Abstract (en)

[origin: CA2692344A1] The invention describes a continuous method for producing wires from copp er or from a copper alloy, wherein the copper or copper alloy is in the form of a cast billet (1) and is drawn at a temperature above 500°C into one or more finished wires with the aid of an extruder (2), in which a female die (4) and corresponding drawing dies are located, characterized by the followin g steps, a) protecting the hot wires (5) emerging from the female die (4) in a stretching zone (I) from oxidation by means of a shielding gas, b) coolin g the wires in a cooling zone (II) in a temperature-controlled water bath (6) at a temperature greater than 60°C, c) measuring the cross-sectional dimen sions of the wires after they leave the water bath and exerting a controlled tensile force on the wires, so that the deviations of the cross-sectional d imensions of the wires from a desired cross section are minimized by stretch ing the wires in the stretching zone (I), and d) placing the wires into a di vided drawing die (14) without prior swaging, closing the drawing die and dr awing the wires to the finished dimensions continuously until the cast bille t is used up.

IPC 8 full level

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