

Title (en)

COPPER ALLOY WIRE ROD AND METHOD FOR PRODUCING COPPER ALLOY WIRE ROD

Title (de)

WALZDRAHT AUS EINER KUPFERLEGIERUNG UND VERFAHREN ZUR HERSTELLUNG EINES WALZDRAHTS AUS EINER KUPFERLEGIERUNG

Title (fr)

TIGE DE FIL EN ALLIAGE DE CUIVRE ET PROCÉDÉ PERMETTANT DE PRODUIRE UNE TIGE DE FIL EN ALLIAGE DE CUIVRE

Publication

EP 3770287 A4 20211124 (EN)

Application

EP 19771832 A 20190218

Priority

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- JP 2019005812 W 20190218

Abstract (en)

[origin: EP3770287A1] It is an object of the present invention is to provide a copper alloy wire rod having excellent tensile strength even when the diameter of the wire rod is narrowed without impairing excellent conductivity, and a method for manufacturing the same. A copper alloy wire rod having an alloy composition containing 1.5 to 6.0% by mass of Ag, 0 to 1.0% by mass of Mg, 0 to 1.0% by mass of Cr, and 0 to 1.0% by mass of Zr, with the balance being Cu and inevitable impurities, wherein, when a cross section parallel to a longitudinal direction of the copper alloy wire rod is observed, an area rate (A) of a precipitate precipitated coherently with Cu as a matrix phase in an observation region in a rectangular shape of 240 nm × 360 nm is within a range of the following expression (I): $0.393 \times x - 0.589\% \leq A \leq 3.88 \times x - 5.81\%$ wherein x represents % by mass of Ag.

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

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- See references of WO 2019181320A1

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