

Title (en)

RESISTOR ALLOY, COMPONENT PRODUCED THEREFROM AND PRODUCTION METHOD THEREFOR

Title (de)

WIDERSTANDSLEGIERUNG, DARAUS HERGESTELLTES BAUELEMENT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

ALLIAGE POUR RÉSISTANCE ÉLECTRIQUE, ÉLÉMENT STRUCTURAL FABRIQUÉ EN CET ALLIAGE, ET PROCÉDÉ DE PRODUCTION CORRESPONDANT

Publication

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Application

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Abstract (en)

[origin: WO2014202221A1] The invention relates to a resistor alloy (3) for an electrical resistor, in particular for a low-resistance current-measuring resistor, having a copper constituent, a manganese constituent and a nickel constituent. According to the invention, the manganese constituent has a mass fraction of 23% to 28%, while the nickel constituent has a mass fraction of 9% to 13%. The mass fractions of the alloy constituents are adjusted to one another in such a manner that, compared to copper, the resistor alloy (3) has a low thermal electromotive force at 20°C of less than $\pm 1 \mu\text{V/K}$. The invention furthermore comprises a component made from such a resistor alloy and a production method therefor.

IPC 8 full level

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