

Title (en)

COPPER-NICKEL-ZINC ALLOY AND USE THEREOF

Title (de)

KUPFER-NICKEL-ZINK-LEGIERUNG UND DEREN VERWENDUNG

Title (fr)

ALLIAGE DE CUIVRE, NICKEL ET ZINC ET SON UTILISATION

Publication

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Application

**EP 16784134 A 20161012**

Priority

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- EP 2016001697 W 20161012

Abstract (en)

[origin: WO2017084731A1] The invention relates to a copper-nickel-zinc alloy with the following composition in weight percentages: 46.0 to 51.0% Cu, 8.0 to 11.0% Ni, 0.2 to 0.6% Mn, 0.05 to 0.5% Si, up to 0.8% of each of Fe and/or Co, the sum of the Fe content and double the Co content equaling at least 0.1 wt.%, residual Zn, and unavoidable impurities, wherein nickel-, iron-, and manganese-containing and/or nickel-, cobalt-, and manganese-containing mixed silicides are embedded into a microstructure consisting of  $\alpha$ - and  $\beta$ -phases as spherical or ellipsoidal particles. The invention further relates to uses of a copper-nickel-zinc alloy according to the invention.

IPC 8 full level

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