

Title (en)
FREE-CUTTING, LEAD-CONTAINING CU-NI-SN ALLOY AND PRODUCTION METHOD THEREOF

Title (de)
BLEIHALTIGE CU-NI-SN-AUTOMATENLEGIERUNG UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
ALLIAGE DECOLLETABLE CU-NI-SN CONTENANT DU PLOMB ET METHODE DE PRODUCTION

Publication
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Application
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Abstract (en)
[origin: WO2005108631A1] The invention relates to alloys based on copper, nickel, tin and lead, which are obtained by means of continuous or semi-continuous casting, static casting into billets, or spray casting into billets and which can undergo spinodal hardening. The machinability index of the inventive alloys is greater than 80 %, in relation to standard ASTM C36000 brass, and can go up to 90 %. According to the invention, the alloy contains between 1 wt.-% and 20 wt.-% Ni, between 1 wt.-% and 20 wt.-% Sn and between 0.1 wt.-% and 4 wt.-% Pb, the remainder comprising essentially Cu and, optionally, up to 10 % of one or more of the following elements, namely Fe, Zn, Mn, and/or up to 5 % of one or more of the following elements, namely Zr, Nb, Cr, Al, Mg.

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