

Title (en)
COPPER-TIN CONTINUOUS CASTING ALLOY

Title (de)
KUPFER-ZINN-STRANGGUSLEGIERUNG

Title (fr)
ALLIAGE DE COULÉE CONTINUE À BASE DE CUIVRE ET D'ÉTAIN

Publication
EP 4271848 A1 20231108 (DE)

Application
EP 22725372 A 20220421

Priority
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Abstract (en)
[origin: WO2022223672A1] The invention relates to a lead-free copper-tin continuous casting alloy, in particular for manufacturing machine parts or transmission parts, more particularly gears, worm gears, cylinder liners or linear guide parts, or for the manufacture of fitting parts for carrying fluids. The alloy contains 3.0 - 8.0 wt.% of tin, 1.5 - 6.0 wt.% of zinc, 0.1 - 2.0 wt.% of indium, the sum of the wt.% proportion of tin and zinc amounting to 5.0 - 12.0 wt.%, and furthermore optionally following alloying elements: up to 0.20 wt.% of iron, up to 2.5 wt.% of nickel, up to 0.30 wt.% of antimony, up to 0.50 wt. % of manganese, up to 0.3 wt.% of phosphorus, up to 0.10 wt.% of sulfur, and elements caused by impurities amounting to not more than 0.10 wt.% each and in sum to not more than 0.5 wt.%, and the remainder copper.

IPC 8 full level
C22C 9/02 (2006.01); **C22C 9/04** (2006.01)

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Citation (search report)
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