

Title (en)
COPPER-TIN CONTINUOUS CASTING ALLOY

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

Publication
EP 4271847 A1 20231108 (DE)

Application
EP 22724659 A 20220421

Priority
• DE 102021110302 A 20210422
• EP 2022060543 W 20220421

Abstract (en)
[origin: WO202223686A1] 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 - 1.8 wt.% of indium, 0.2 - 0.8 wt.% of sulfur, the sum of the wt.% proportion of tin and zinc amounting to 5.0 - 12.0 wt.%, and the sum of the wt.% proportion of indium and sulfur amounting to 0.5 - 2.0 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, 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)

CPC (source: EP)
C22C 9/02 (2013.01); **C22C 9/04** (2013.01)

Citation (search report)
See references of WO 202223686A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 102021110302 A1 20221027; EP 4271847 A1 20231108; WO 202223686 A1 20221027

DOCDB simple family (application)
DE 102021110302 A 20210422; EP 2022060543 W 20220421; EP 22724659 A 20220421