

Title (en)

COPPER-TIN CONTINUOUS CASTING ALLOY

Title (de)

KUPFER-ZINN-STRANGGUSSLEGIERUNG

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

- DE 102021110296 A 20210422
- EP 2022060510 W 20220421

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)

CPC (source: EP)

C22C 9/02 (2013.01); **C22C 9/04** (2013.01)

Citation (search report)

See references of WO 2022223672A1

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 102021110296 A1 20221027; EP 4271848 A1 20231108; WO 2022223672 A1 20221027

DOCDB simple family (application)

DE 102021110296 A 20210422; EP 2022060510 W 20220421; EP 22725372 A 20220421