

Title (en)
CU-NI-ZN-MN ALLOY

Title (de)
CU-NI-ZN-MN-LEGIERUNG

Title (fr)
ALLIAGE DE CU-NI-ZN-MN

Publication
EP 2670876 A2 20131211 (EN)

Application
EP 12710042 A 20120203

Priority
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Abstract (en)
[origin: WO2012104426A2] Precipitation hardened alloy on the basis of copper, zinc, nickel and manganese exhibiting a high strength and ductility with values similar to those of stainless steels in combination with excellent machinability. The inventive alloy family is characterized by fine fibre-like or globular precipitates that emerge during intermediate temperature annealing treatments, which in case of the unleaded variations significantly improves the machinability. The alloy of invention is particularly suited for free machining applications such as the production of pen tips and reservoirs for writing implements of reduced tip dimensions, where conventional Cu-Ni- Zn-Mn alloys fail due to lack of strength and where the corrosion resistance in gel-based inks is insufficient without restriction to other fields of application.

IPC 8 full level
C22C 9/04 (2006.01); **C22C 30/06** (2006.01)

CPC (source: EP KR US)
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See references of WO 2012104426A2

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