

Title (en)
USE OF AN AGE-HARDENABLE COPPER-BASED ALLOY

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Application
EP 89109136 A 19890520

Priority
DE 3820203 A 19880614

Abstract (en)
[origin: EP0346645A1] For the manufacture of casting moulds, which are subjected to a permanently changing temperature stress during casting, for example blocks of side dams of double strip steel casting installations or casting wheels, thermally highly conductive materials are required, which are insensitive to thermal shock treatment and additionally exhibit high thermal stability. According to the invention, a copper-based alloy is proposed for this application which, in addition to 1.6 to 2.4% of nickel, 0.5 to 0.8% of silicon and, if appropriate, up to 0.4% of chromium and/or up to 0.2% of iron, also contains 0.01 to 0.20% of zirconium. As a result of the additional content of zirconium, the thermal shock sensitivity of hitherto used alloys is eliminated.

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