

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

Publication  
**EP 0346645 B1 19910724 (DE)**

Application  
**EP 89109136 A 19890520**

Priority  
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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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IPC 8 full level  
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