

Title (en)

Process for improving the flexibility of cuprous semi-finished products

Title (de)

Verfahren zur Verbesserung der Biegegewecheigenschaft von Halbzeug aus Kupferlegierungen

Title (fr)

Procédé pour améliorer la flexibilité de demi-produits en alliage de cuivre

Publication

**EP 0552479 B1 19961002 (DE)**

Application

**EP 92121734 A 19921221**

Priority

DE 4201065 A 19920117

Abstract (en)

[origin: EP0552479A1] The invention relates to a process for improving the fatigue strength under reversed bending stresses of semi-finished copper alloy products. In this case, the copper alloy is melted, a preform is produced and the end form is obtained from the preform by usual steps of hot- and cold-forming. In order to improve the fatigue strength under reversed bending stresses as compared with conventionally manufactured semi-finished products, it is proposed according to the invention that the preform is produced by the process of spray-compacting and that a copper alloy is used which contains nitride-forming elements (such as, for example, zirconium, titanium, magnesium, chromium, aluminium, manganese, boron, niobium, tantalum, vanadium) individually or in combination in a concentration range of from 0.001 to 3.0% in total.

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