

## Title (en)

Slide fasteners using a copper alloy having excellent continuous castability

## Title (de)

Reissverschlüsse aus Kupferlegierung mit ausgezeichneter Stranggiessen-Vergiessbarkeit

## Title (fr)

Fermetures à glissière en alliage de cuivre présentant une excellente coulabilité en continu

## Publication

**EP 1319728 A1 20030618 (EN)**

## Application

**EP 02024279 A 20021031**

## Priority

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## Abstract (en)

The object of the present invention is to provide a copper alloy for slide fasteners which has excellent whiteness, does not contain nickel and hence does not have the problem of nickel allergy, and has excellent continuous castability and casting quality. The composition of the alloy for slide fasteners is represented by the general formula  $\text{Cu}_a\text{Zn}_b\text{Mn}_c$ , wherein regarding a, b and c, in mass%,  $10 \leq b \leq 20$ ,  $8 \leq c \leq 15$ , and a is a remainder, with unavoidable impurities being contained. Moreover, the structure of the alloy is preferably made to be a single alpha phase at room temperature, and the surface of the alloy is plated.

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