

Title (en)
Metal alloys.

Title (de)
Metallegerungen.

Title (fr)
Perfectionnements aux alliages métalliques.

Publication
EP 0028213 A1 19810506 (FR)

Application
EP 80870046 A 19801023

Priority
BE 6046978 A 19791025

Abstract (en)

The composition of metal alloys expressed in percentages follow the following ponderal relationships: 3% //c chromium //c 20%; 7% //c molybdenum //c 40%; C //c 0.1%; Fe, together with its usual impurities and optionally Mn (:5% at the most), makes up the balance yet not smaller than 50%, the whole in a matrix, at least partially ferritic, and having separately or in admixture intermetallic compounds of the Laves and Ktypes. In these alloys, the resistance to corrosion increases together with the chromium content, which enhances the formation of the phase K. The molybdenum content is a direct function of the desired amount of intermetallic compounds. To give the alloys an improved hot resistance or in certain corrosive medium, up to half of molybdenum may be replaced by tungsten. The stability of the Laves and Kphases is improved by supplying silicon. These alloys exhibit simultaneously a good resistance to wear and corrosion and a low friction coefficient.

Abstract (fr)

Alliages métalliques, caractérisés en ce que leur composition centésimale vérifie les relations pondérales ci-après: 3% <= Cr <= 20 % 7% <= Mo <= 40 % C <= 0,1 % Fe >= 50 % constituant le solde, accompagné de ses impuretés usuelles, le tout présentant une matrice au moins partiellement ferritique, ainsi que, isolément ou en mélange, des composés intermétalliques des types Laves et x.

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IPC 8 full level

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CPC (source: EP)

C22C 38/22 (2013.01)

Citation (search report)

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