

Title (en)

COBALT AND NICKEL ALLOY, IN PARTICULAR FOR THE PREPARATION OF DENTAL PROSTHESES.

Title (de)

LEGIERUNG AUF KOBALT- ODER NICKELBASIS; INSBESONDERE ZUR HERSTELLUNG VON ZAHNPROTESEN.

Title (fr)

ALLIAGE A BASE DE COBALT ET DE NICKEL, EN PARTICULIER POUR LA PREPARATION DE PROTHESES DENTAIRES.

Publication

EP 0073228 A1 19830309 (DE)

Application

EP 82900823 A 19820303

Priority

- HU 52681 A 19810303
- HU 52781 A 19810303

Abstract (en)

[origin: WO8203007A1] Cobalt and nickel alloy which is particularly well suited for preparing dental prostheses. This alloy has sufficient qualities of corrosion and wear resistance, is cold-deformable and retains its color, is easily workable in a molten state and shows hardness values equivalent to those of noble metals alloys. Except for the parent metals, the alloy contains as main components 10 to 50% by weight of chromium, 0.2 to 4.5% by weight of gallium. The novel alloy can also contain 0.05 to 0.08% by weight of lanthanum 0.03 to 0.1 by weight of neodymium and 1.0 to 6.0% by weight of molybdenum. Owing to its elasticity and its low specific gravity, the alloy is particularly useful in the field of fixed dental prostheses. The alloy can be used especially for preparing base plates, anchoring hooks and fastening hooks for mobile prostheses. Since this alloy does not contain any noble metal, the basic materials are easily available and the cost prices represent only a fraction of the costs of the noble metal alloys.

Abstract (fr)

Alliage a base de cobalt et de nickel, qui se prete particulierement a la preparation de protheses dentaires. Il presente en effet les qualites suffisantes de resistance a la corrosion et a l'usure, est deformable a froid et maintient bien sa couleur, se travaille facilement a l'etat fondu et presente des valeurs de durete equivalentes a celles des alliages a metaux nobles. L'alliage contient, a part les metaux de base, comme composants principaux 10 a 50% en poids de chrome, 0,2 a 4,5% en poids de gallium. Le nouvel alliage peut contenir en outre egalement 0,05 a 0,08% en poids de lanthane, 0,03 a 0,1% en poids de neodymium et 1,0 a 6,0% en poids de molybdene. A cause de son elasticite et a cause de son faible poids specifique, l'alliage sert particulierement dans le domaine des protheses dentaires fixes. L'alliage sert specialement a la preparation de plaques de base, de crochets d'ancrage et de crochets d'attache de protheses amovibles. Comme cet alliage ne contient aucun metal noble, les substances de base s'obtiennent facilement et les prix de revient ne constituent qu'une fraction des frais necessites par les alliages a metaux nobles.

IPC 1-7

A61K 6/02; **A61K 6/04**

IPC 8 full level

A61K 6/04 (2006.01); **C22C 19/00** (2006.01)

CPC (source: EP US)

A61K 6/842 (2020.01 - EP US); **C22C 19/00** (2013.01 - EP US)

Designated contracting state (EPC)

AT CH DE LI SE

DOCDB simple family (publication)

WO 8203007 A1 19820916; EP 0073228 A1 19830309; EP 0073228 A4 19840705; US 4459262 A 19840710

DOCDB simple family (application)

HU 8200008 W 19820303; EP 82900823 A 19820303; US 44160082 A 19821101