

Title (en)

Use of a copper-zinc alloy for fresh water installations

Title (de)

Verwendung einer Kupfer-Zink-Legierung für Trinkwasserinstallationen

Title (fr)

Utilisation d'un alliage de cuivre-zinc pour installations d'eau potable

Publication

**EP 0711843 A3 19961211 (DE)**

Application

**EP 95116168 A 19951013**

Priority

DE 4438485 A 19941028

Abstract (en)

[origin: EP0711843A2] The use of a Cu-Zn alloy for drinking water installations, esp. for mfg. armatures, connectors and various objects in periodic or long-term contact with drinking water, is claimed. The alloy has a ratio of Cu to Zn of 1.3-2 and also contains: (a) 0.1-5% thermally stable dispersoids selected from Cr<sub>2</sub>Ta, Dy<sub>2</sub>O<sub>3</sub>, Er<sub>2</sub>O<sub>3</sub>, MoB, Mo<sub>2</sub>C, NbC, Nd<sub>2</sub>O<sub>3</sub>, Sm<sub>2</sub>O<sub>3</sub>, WS<sub>2</sub>, Yb<sub>2</sub>O<sub>3</sub>, ZrC and/or (b) 0.1-5% intermetallic phases made of Cu and/or Zn with at least one from La, Y, Zr and/or (c) intermetallic phases made without Cu and/or Zn and selected from 0.1-5% Ce, Co, La, Ni and 0.1-5% Al, Nb, Sb, Sn, Ti, and/or (d) thermally active precipitates of 1-5% Ag, Al, Co, Mg, or Ti.

IPC 1-7

**C22C 9/04**

IPC 8 full level

**C22C 9/04** (2006.01); **C22C 32/00** (2006.01)

CPC (source: EP US)

**C22C 9/04** (2013.01 - EP US); **C22C 32/00** (2013.01 - EP US)

Citation (search report)

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- [A] DRESHER W.H. AND PETERS D.T.: "Lead-free and reduced-lead copper-base cast plumbing alloys, Part 1", METALL, vol. 46, no. 11, November 1992 (1992-11-01), pages 1142 - 1146, XP000602515
- [A] DRESHER W.H. AND PETERS D.T.: "Lead-free and reduced-lead copper-base cast plumbing alloys, Part 2", METALL, vol. 47, no. 1, January 1993 (1993-01-01), pages 26 - 33, XP000602516

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Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**DE 4438485 A1 19960502; DE 4438485 C2 19980520;** DE 59505964 D1 19990624; EP 0711843 A2 19960515; EP 0711843 A3 19961211; EP 0711843 B1 19990519; FI 111856 B 20030930; FI 955074 A0 19951025; FI 955074 A 19960429; US 5766377 A 19980616

DOCDB simple family (application)

**DE 4438485 A 19941028;** DE 59505964 T 19951013; EP 95116168 A 19951013; FI 955074 A 19951025; US 71449896 A 19960916