

Title (en)

PROCESS FOR THE PROTECTION AGAINST EXTERNAL CORROSION IN COPPER-BASED HEAT EXCHANGERS

Title (de)

VERFAHREN ZUM EXTERNEN KORROSIONSCHUTZ VON WÄRMETÄUSCHER AUS KUPFER

Title (fr)

PROCEDE DE PROTECTION CONTRE LA CORROSION EXTERNE DANS DES ECHANGEURS DE CHALEUR EN CUIVRE

Publication

**EP 0771888 A1 19970507 (EN)**

Application

**EP 96915036 A 19960514**

Priority

- ES 9600105 W 19960514
- ES 9500935 A 19950516

Abstract (en)

The process comprises the coating and heat diffusion of an Sn-based alloy on a Cu-based core so as to obtain a composite material comprised of a Cu-based core, an external surface formed of a Sn-based alloy and an intermediary layer comprised of Cu-Sn alloys of variable compositions. Said composite material thus formed is appropriate for the fabrication of gills for heat exchangers, particularly radiators for motor vehicles, and whose honeycombs can be welded in an oven with oxidizing or non oxidizing atmosphere.

IPC 1-7

**C23C 26/00**; **F28F 19/06**

IPC 8 full level

**C23C 10/30** (2006.01); **C23C 26/00** (2006.01); **F28F 19/06** (2006.01)

CPC (source: EP)

**C23C 10/30** (2013.01); **C23C 26/00** (2013.01); **F28F 19/06** (2013.01)

Citation (search report)

See references of WO 9636749A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

**WO 9636749 A1 19961121**; EP 0771888 A1 19970507; ES 2129282 A1 19990601; ES 2129282 B1 20000516; MX 9700433 A 19980731

DOCDB simple family (application)

**ES 9600105 W 19960514**; EP 96915036 A 19960514; ES 9500935 A 19950516; MX 9700433 A 19970115