

Title (en)

METHOD FOR PRODUCING A COPPER ALLOY SHEET EXCELLENT IN STRENGTH, BENDING WORKABILITY AND STRESS RELAXATION RESISTANCE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES KUPFERLEGIERUNGSBLECHES MIT HERVORRAGENDER FESTIGKEIT, BIEGEBEARBEITBARKEIT UND SPANNUNGSRELAXATIONSRESISTENZ

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE TOLE D'ALLIAGE DE CUIVRE EXCELLENTE EN CE QUI CONCERNE LA RÉSISTANCE, L'APTITUDE AU FAÇONNAGE PAR CINTRAGE ET LA RÉSISTANCE À LA RELAXATION DES CONTRAINTES

Publication

EP 2221390 B1 20140618 (EN)

Application

EP 08843774 A 20081031

Priority

- JP 2008069977 W 20081031
- JP 2007285605 A 20071101

Abstract (en)

[origin: EP2221390A1] A copper alloy material according to the present invention is characterized in that the same comprises: Ni between 2.8 mass% and 5.0 mass%; Si between 0.4 mass% and 1.7 mass%; S of which content is limited to less than 0.005 mass%; and the balance of the copper alloy material is composed of copper and unavoidable impurity, wherein a proof stress is stronger than or equal to 800 MPa, and the same is superior in bending workability and in stress relaxation resistance.

IPC 8 full level

C22C 9/06 (2006.01); **C22F 1/00** (2006.01); **C22F 1/08** (2006.01)

CPC (source: EP US)

C22C 9/06 (2013.01 - EP US); **C22F 1/08** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2221390 A1 20100825; **EP 2221390 A4 20120627**; **EP 2221390 B1 20140618**; CN 101842506 A 20100922; CN 101842506 B 20120822; JP 4851596 B2 20120111; JP WO2009057788 A1 20110310; US 2010269963 A1 20101028; WO 2009057788 A1 20090507

DOCDB simple family (application)

EP 08843774 A 20081031; CN 200880114305 A 20081031; JP 2008069977 W 20081031; JP 2009539148 A 20081031; US 74097908 A 20081031