

Title (en)  
PROCESS FOR PRODUCING COPPER ALLOY WIRE CONTAINING ACTIVE ELEMENT

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES KUPFERLEGIERUNGSDRAHTS MIT AKTIVEM ELEMENT

Title (fr)  
PROCEDE POUR PRODUIRE UN FIL EN ALLIAGE DE CUIVRE CONTENANT UN ELEMENT ACTIF

Publication  
**EP 2529860 A4 20170222 (EN)**

Application  
**EP 11737023 A 20110126**

Priority  
• JP 2010014397 A 20100126  
• JP 2011051433 W 20110126

Abstract (en)  
[origin: EP2529860A1] This method for producing a copper alloy wire containing an active element includes: a molten-copper formation step of melting a raw copper material to form a molten copper; an active-element addition step of adding an active element to the molten copper; a holding step of holding the molten copper in a casting furnace; and a casting step of producing an ingot continuously by a casting die connected to the casting furnace, wherein the casting die is connected to a lower side of the casting furnace in a vertical direction through a heat insulation member, and in the casting step, a pressure is applied toward the inside of the casting die so as to supply the molten copper into the casting die, and the molten copper is cooled and solidified in the casting die.

IPC 8 full level  
**B22D 11/00** (2006.01); **B22D 11/041** (2006.01); **B22D 11/055** (2006.01); **B22D 11/059** (2006.01); **B22D 11/103** (2006.01); **C22C 1/02** (2006.01); **C22C 9/00** (2006.01)

CPC (source: EP)  
**B22D 11/004** (2013.01); **B22D 11/041** (2013.01); **B22D 11/055** (2013.01); **B22D 11/059** (2013.01); **B22D 11/103** (2013.01); **C22C 1/02** (2013.01); **C22C 9/00** (2013.01)

Citation (search report)  
• [XD] JP H06226406 A 19940816 - MITSUBISHI ELECTRIC CORP  
• [XD] JP S61209757 A 19860918 - FURUKAWA ELECTRIC CO LTD, et al  
• [I] JP H02307649 A 19901220 - SHINNITSUTOU KINZOKU KK  
• [X] JP H11207441 A 19990803 - DOWA MINING CO, et al  
• See references of WO 2011093310A1

Cited by  
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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
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DOCDB simple family (application)  
**EP 11737023 A 20110126**; CN 201180005192 A 20110126; JP 2011051433 W 20110126; JP 2011551866 A 20110126; TW 100102869 A 20110126