

Title (en)

Continuous molten copper cladding of ferrous alloys.

Title (de)

Kontinuierliches Plattieren von Eisenlegierungen mit geschmolzenem Kupfer.

Title (fr)

Placage continu d'alliages de fer avec du cuivre fondu.

Publication

EP 0149064 A1 19850724 (EN)

Application

EP 84114169 A 19841123

Priority

US 56744183 A 19831230

Abstract (en)

A method of forming a composite conductor characterized by a ferrous core and a copper cladding comprises the steps of preheating the core in a hydrogen atmosphere to a temperature approximately 50 to 100 degrees F below the melting point of copper, drawing the preheated core in an upwardly vertical direction through a dry orifice and through a molten copper bath at a rate that permits wetting of the core and adhesion of a copper layer to the core, and cooling the composite ferrous core and copper cladding so that solidification of the cladding occurs at a point about the surface of the molten copper bath.

IPC 1-7

C23C 2/04; C23C 2/38; B22D 11/00; B22D 19/00; B23K 20/00

IPC 8 full level

C23C 2/04 (2006.01); **C23C 2/38** (2006.01)

CPC (source: EP)

C23C 2/04 (2013.01); **C23C 2/38** (2013.01)

Citation (search report)

- WO 8103136 A1 19811112 - EKEROT S
- GB 1527746 A 19781011 - GEN ELECTRIC
- AT 239043 B 19650310 - GEN ELECTRIC [US]
- PATENT ABSTRACTS OF JAPAN, unexamined applications, C field, vol. 4, no. 50, April 16, 1980 THE PATENT OFFICE JAPANESE GOVERNMENT page 43 C 7 * JP - A -55-21 537 (YAZAKI SOUGIYOU K.K.) *

Cited by

EP2360286A1; AU2002217180B2; US7024750B2; WO02055753A1

Designated contracting state (EPC)

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