

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 0149063 A1 19850724 (EN)

Application

EP 84114168 A 19841123

Priority

US 56743983 A 19831230

Abstract (en)

An apparatus for the continuous molten copper cladding of ferrous alloys includes a melt furnace for a molten copper bath, the melt furnace having a bottom supporting a substantially annular dry orifice through which ferrous rod is to be drawn up into and through the melt into a cladding mechanism, the cladding mechanism to be at least partially submersible in the molten copper bath and comprising a substantially cylindrical, vertically orientable nozzle exhibiting a guiding surface at one end, an annular entry guide attached to and positioned by the guiding surface of the nozzle, a substantially cylindrical chill mold having an interiormost surface into which nozzle is threaded, and a fireproof lining surrounding and contacted to an exterior surface of the nozzle.

IPC 1-7

C23C 2/00; C23C 2/04; C23C 2/38; B22D 11/10; B22D 11/12; B23K 20/00

IPC 8 full level

C23C 2/38 (2006.01)

CPC (source: EP)

C23C 2/38 (2013.01)

Citation (search report)

- US 3872913 A 19750325 - LOHIKOSKI TIMO JORMA JUHANI
- US 3746077 A 19730717 - HOCKSELL H, et al
- EP 0038975 A1 19811104 - BETHLEHEM STEEL CORP [US]
- EP 0038036 A1 19811021 - BETHLEHEM STEEL CORP [US]

Cited by

US5087300A; EP0298518A3; US8534344B2; US9038702B2

Designated contracting state (EPC)

AT BE DE FR GB IT

DOCDB simple family (publication)

EP 0149063 A1 19850724; DE 149063 T1 19851024

DOCDB simple family (application)

EP 84114168 A 19841123; DE 84114168 T 19841123