

Title (en)
DEVICE FOR DIP COATING A METAL BAR

Title (de)
VORRICHTUNG ZUR SCHMELZTAUCHBESCHICHTUNG EINES METALLSTRANGES

Title (fr)
DISPOSITIF D'ENDUCTION PAR IMMERSION A CHAUD D'UNE BARRE METALLIQUE

Publication
EP 1563114 A2 20050817 (DE)

Application
EP 03815270 A 20031018

Priority
• DE 10253234 A 20021115
• EP 0311577 W 20031018

Abstract (en)
[origin: WO2004067795A2] The invention relates to a device for dip coating a metal bar (1), in particular a steel strip. In said device, the metal bar (1) is guided vertically through a container (3) that holds the molten coating metal (2), after passing through a guide channel (4) located upstream of said container. The device is equipped with at least two inductors (5), located on either side of the metal bar (1) in the vicinity of the guide channel (4) for generating an electromagnetic field that retains the coating metal (2) in the container (3). In order to facilitate the capture of the molten metal, in particular in the event of an emergency, the device is characterised by at least two traps (6), configured as liquid deflector guides, located on either side of the metal bar (1) below the guide channel (4). Said guides can be positioned either in an open position (A), in which they do not come into contact with the metal bar (1), or a closed position (B), in which they rest against the metal bar (1).

IPC 1-7
C23C 2/24; **C23C 2/00**

IPC 8 full level
C23C 2/00 (2006.01); **C23C 2/24** (2006.01)

CPC (source: EP US)
C23C 2/00362 (2022.08 - EP US); **C23C 2/24** (2013.01 - EP)

Citation (search report)
See references of WO 2004067795A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004067795 A2 20040812; **WO 2004067795 A3 20041229**; AT E403017 T1 20080815; AU 2003303292 A1 20040823; AU 2003303292 A8 20040823; DE 10253234 A1 20040527; DE 50310259 D1 20080911; EP 1563114 A2 20050817; EP 1563114 B1 20080730; ES 2309401 T3 20081216; MY 131243 A 20070731; TW 200412377 A 20040716; TW I290590 B 20071201

DOCDB simple family (application)
EP 0311577 W 20031018; AT 03815270 T 20031018; AU 2003303292 A 20031018; DE 10253234 A 20021115; DE 50310259 T 20031018; EP 03815270 A 20031018; ES 03815270 T 20031018; MY PI20034299 A 20031111; TW 92127639 A 20031006