

Title (en)
DEVICE FOR HOT-DIP COATING A METAL BAR

Title (de)
VORRICHTUNG ZUR SCHMELZTAUCHBESCHICHTUNG EINES METALLSTRANGES

Title (fr)
DISPOSITIF POUR REVETIR UNE BARRE METALLIQUE PAR IMMERSION A CHAUD

Publication
EP 1563112 A2 20050817 (DE)

Application
EP 03811741 A 20031025

Priority
• DE 10254513 A 20021122
• EP 0311890 W 20031025

Abstract (en)
[origin: WO2004048633A2] The invention relates to a device for hot-dip coating a metal bar (1), particularly a steel strip, in which the metal bar (1) is vertically directed through a container (3) receiving the molten coating metal (2) and a directing channel (4) that is arranged upstream thereof. Said device comprises at least two inductors (5) which are disposed on both sides of the metal bar (1) in the zone of the directing channel (4) and generate an electromagnetic field for retaining the coating metal (2) within the container (3). In order to better control the coating process, the inventive device is characterized by a sealing means (7, 7') which is arranged above the directing channel (4) in the bottom area (6) of the container (3) and alternatively releases or interrupts the flow of molten coating metal (2) to the metal bar (1) and/or the directing channel (4).

IPC 1-7
C23C 2/00

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

CPC (source: EP KR US)
C23C 2/0036 (2022.08 - EP US); **C23C 2/00362** (2022.08 - EP KR US); **C23C 2/24** (2013.01 - EP KR US); **C23C 2/30** (2013.01 - KR); **C23C 2/50** (2022.08 - EP KR US)

Citation (search report)
See references of WO 2004048633A2

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 2004048633 A2 20040610; **WO 2004048633 A3 20041125**; AT E320514 T1 20060415; AU 2003302432 A1 20040618; AU 2003302432 B2 20090129; BR 0316398 A 20050927; CA 2506969 A1 20040610; CN 100523267 C 20090805; CN 1714166 A 20051228; DE 10254513 A1 20040603; DE 50302688 D1 20060511; EG 23854 A 20071111; EP 1563112 A2 20050817; EP 1563112 B1 20060315; ES 2259778 T3 20061016; JP 2006507406 A 20060302; JP 4426460 B2 20100303; KR 101065202 B1 20110919; KR 20050086706 A 20050830; MX PA05005419 A 20050826; MY 134734 A 20071231; PL 375313 A1 20051128; RS 20050381 A 20070803; RS 50731 B 20100831; RU 2005119648 A 20070110; RU 2325465 C2 20080527; TW 200523396 A 20050716; TW I291999 B 20080101; UA 78891 C2 20070425; US 2006137605 A1 20060629; US 7601221 B2 20091013; ZA 200503002 B 20051123

DOCDB simple family (application)
EP 0311890 W 20031025; AT 03811741 T 20031025; AU 2003302432 A 20031025; BR 0316398 A 20031025; CA 2506969 A 20031025; CN 200380103697 A 20031025; DE 10254513 A 20021122; DE 50302688 T 20031025; EG NA2005000243 A 20050521; EP 03811741 A 20031025; ES 03811741 T 20031025; JP 2004554293 A 20031025; KR 20057008889 A 20031025; MX PA05005419 A 20031025; MY PI20034305 A 20031111; PL 37531303 A 20031025; RU 2005119648 A 20031025; TW 92129375 A 20031023; UA 2005006096 A 20031025; US 53577105 A 20051024; YU P20050381 A 20031025; ZA 200503002 A 20050414