

Title (en)

Method for withdrawing a cast strand and arc-type continuous casting machine therefor

Title (de)

Strangabzugsverfahren und hiermit korrespondierende Bogenstranggiessanlage

Title (fr)

Procédé pour l'extraction d'une barre coulée en continue et installation de coulée continue courbe pour la mise en oeuvre du procédé

Publication

**EP 0992303 B1 20030625 (DE)**

Application

**EP 99116308 A 19990819**

Priority

DE 19838774 A 19980826

Abstract (en)

[origin: US6427758B1] A strand pulling-off method for a metal strip cast in a curved continuous casting plant and a curved continuous casting plant, wherein the metal strip is initially pulled vertically from a casting mold using a curved entry segment driven with an entry speed. A curved shape is imparted to the metal strip in the curved entry segment such that the metal strip travels in a circular arc. The metal strip is straightened after reaching a horizontal strip travel direction using a curved exit segment driven with an exit speed and conveying the metal strip out of the curved exit segment. The metal strip is guided between the curved entry segment and the curved exit segment initially over a reaction roller arranged at the circular arc and then over a guide roller underneath the circular arc and it is detected whether the metal strip is in contact with the guide roller or the metal strip is lifted off from the guide roller, wherein the exit speed is increased when the metal strip is in contact with the guide roller and the exit speed is decreased when the metal strip is lifted off from the guide roller.

IPC 1-7

**B22D 11/20**; **B22D 11/128**

IPC 8 full level

**B22D 11/128** (2006.01); **B22D 11/20** (2006.01)

CPC (source: EP US)

**B22D 11/1282** (2013.01 - EP US); **B22D 11/20** (2013.01 - EP US)

Cited by

CN110312581A; DE202015105526U1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**US 6427758 B1 20020806**; AT E243588 T1 20030715; DE 19838774 A1 20000302; DE 59906073 D1 20030731; EP 0992303 A1 20000412; EP 0992303 B1 20030625; ES 2202974 T3 20040401

DOCDB simple family (application)

**US 37735299 A 19990819**; AT 99116308 T 19990819; DE 19838774 A 19980826; DE 59906073 T 19990819; EP 99116308 A 19990819; ES 99116308 T 19990819