

Title (en)

Machine for producing metal strips by continuous casting, particularly for producing very wide metal strips

Title (de)

Maschine zum Herstellen metallischer Bänder durch Stranggiessen, insbesondere zum Herstellen sehr breiter Bänder

Title (fr)

Machine d'élaboration de bandes métalliques par coulée continue, en particulier pour l'élaboration de bandes très larges

Publication

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Application

EP 97103820 A 19970307

Priority

IT MI960589 A 19960325

Abstract (en)

A machine for producing metal strips by continuous casting, particularly for producing very wide metal strips, the machine comprising: a drum (3), with a horizontal axis (3a) and rotatable about its own axis (3a), having, on its lateral surface, a recess (4) which forms the bottom (4a) and two mutually opposite side walls (4b, 4c) of a continuous-casting die; a continuous belt (5), running along a closed path and wrapping, for part of its extension, around a portion of the lateral surface of the drum (3), resting on the edges (6, 7) that delimit the recess (4) in order to close the continuous-casting die; tensioning means (10, 11) which act on the belt (5); means (13) being provided for conveying molten metal into the continuous-casting die in the region closed by the continuous belt (5), as well as means (14, 23) for cooling the regions of the continuous belt (5) and of the drum (3) which are in contact with the metal conveyed into the continuous-casting die. The continuous belt (5) is made of a material that can be polarized magnetically, and means (16) are provided for generating a magnetic field affecting the continuous belt (5) over at least part of its region which is in contact with the drum (3) starting from the region where the molten metal is cast into the continuous-casting die, in order to contrast, by means of magnetic forces, a deformation of the continuous belt (5), keeping it parallel to the outer lateral surface of the drum (3).
<IMAGE>

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