Title (en)
  DYNAMIC THICKNESS CORRECTION

Title (de)
  DYNAMISCHE DICKENKORREKTUR

Title (fr)
  CORRECTION DYNAMIQUE D'EPAISSEUR

Publication
  EP 1525061 B2 20140709 (DE)

Application
  EP 03764965 A 20030710

Priority
  • DE 10233118 A 20020720
  • EP 0307468 W 20030710

Abstract (en)
  [origin: WO2004009261A1] The invention relates to a method and device for correcting the thickness of a metallic strip (1) during rolling with a roll stand (2) equipped with setting elements for regulating the thickness of the metallic strip and with at least one coiler (4). The aim of the invention is to provide a method and device for correcting the thickness of a metallic strip during rolling with a roll stand, which ensures the production of rolled strips with a reduced thickness tolerance. To this end, the invention provides that an average strip thickness of a strip section is determined from at least one strip length measurement and from the measurement of the associated rotation of the coiler, and the setting elements of the roll stand are controlled at least according to the average strip thickness of the strip section. The inventive method enables the setting elements to be controlled virtually independent of the surrounding conditions of the roll stand thereby enabling the thickness tolerances of the rolled strip to be effectively reduced.

IPC 8 full level
  B21B 37/18 (2006.01); **B21C 47/02** (2006.01); **B21C 51/00** (2006.01); B21B 15/00 (2006.01); B21B 38/04 (2006.01)

CPC (source: EP KR US)
  B21B 37/165 (2013.01 - KR); **B21B 37/18** (2013.01 - EP KR US); **B21B 38/04** (2013.01 - KR); B21B 38/04 (2013.01 - EP US);
  B21B 2015/0057 (2013.01 - EP KR US); B21B 2261/04 (2013.01 - KR)

Citation (opposition)
  Opponent :
  • US 4052599 A 19771004 - WHITELEY ROGER L, et al
  • US 4159572 A 19790703 - NUNES JAMES A
  • EP 0609172 B1 19971022 - BENNINGER AG MASCHF [CH]
  • MARIE-LINE: "Les capteurs et codeurs angulaires", MESURES 731, January 2001 (2001-01-01), pages 76 - 78

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 2004009261 A1 20040129; AT E330723 T1 20060715; AU 2003257445 A1 20040209; AU 2003257445 A8 20040209;
  BR 0312813 A 20050419; BR 0312813 B1 20110823; CA 2497681 A 20040129; CA 2497681 C 20090512; DE 10233118 B3 20040429;
  DE 50303974 D1 20060803; EA 006530 B1 20060224; EA 200500221 A1 20050825; EP 1525061 A1 20050427; EP 1525061 B1 20060621;
  EP 1525061 B2 20140709; EP 1525061 B8 20061011; ES 2268431 T3 20070316; ES 2268431 T5 20141201; JP 2005537932 A 20051215;
  KR 100699554 B1 20070326; KR 20050038006 A 20050425; US 2006123861 A1 20060615; US 7185520 B2 20070306;
  ZA 200500534 B 20060531

DOCDB simple family (application)
  EP 0307468 W 20030710; AT 03764965 T 20030710; AU 2003257445 A 20030710; BR 0312813 A 20030710; CA 2497681 A 20030710;
  DE 10233118 A 20020720; DE 50303974 T 20030710; EA 200500221 A 20030710; EP 03764965 A 20030710; ES 03764965 T 20030710;
  JP 2004522433 A 20030710; KR 20057001106 A 20050120; US 52198003 A 20030720; ZA 200500534 A 20050119