

Title (en)  
THIN-STRIP COILER COMPRISING A FLATNESS MEASURING ROLL

Title (de)  
DÜNNBANDHASPEL MIT PLANHEITSMESSROLLE

Title (fr)  
BOBINEUSE A BANDE MINCE MUNIE D'UN ROULEAU DE MESURE DE PLANEITE

Publication  
**EP 1402227 A1 20040331 (DE)**

Application  
**EP 02758225 A 20020611**

Priority  
• DE 10131850 A 20010630  
• EP 0206358 W 20020611

Abstract (en)  
[origin: WO03004963A1] The invention relates to a method and device for measuring and influencing the strip flatness in the coiler shaft of a hot-strip mill, whereby the coiler shaft has, between a driver and a coiler, moving and stationary strip guides as well as a flatness measuring roll (13). The hot strip (1) is supplied via the coiler shaft to a coiler, which is provided with a coiler mandrel (5), pressure rolls (6) and with deflecting shells (7), over a roller table (2) and the driving rolls (3, 4) of the driver. The flatness measuring roll (13) is displaced out of a working position, in which the hot strip is guided around the flatness measuring roll (13) while maintaining an approximately constant contact angle  $\alpha$ , and into a lowered position. In addition, a strip guide (14), which can swivel inward and protects the flatness measuring roll (13), is placed inside the coiler shaft.

IPC 1-7  
**G01B 5/28**; **G01B 21/30**; **B21B 38/02**; **B21B 39/12**

IPC 8 full level  
**B21B 38/02** (2006.01); **B21C 47/06** (2006.01); **B21C 51/00** (2006.01); **G01B 5/28** (2006.01); **G01B 21/30** (2006.01); **B21B 15/00** (2006.01)

CPC (source: EP KR US)  
**B21B 38/02** (2013.01 - EP US); **B21C 47/063** (2013.01 - EP US); **B21C 51/00** (2013.01 - EP KR US); **G01B 5/28** (2013.01 - KR); **G01B 5/285** (2013.01 - EP US); **B21B 2015/0057** (2013.01 - EP US)

Citation (search report)  
See references of WO 03004963A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 03004963 A1 20030116**; AU 2002325236 B2 20070830; BR 0210795 A 20040817; CA 2452336 A1 20030116; CA 2452336 C 20100216; CN 1254324 C 20060503; CN 1535370 A 20041006; CZ 20033453 A3 20040317; DE 10131850 A1 20030123; DE 10131850 B4 20130425; EP 1402227 A1 20040331; JP 2004533621 A 20041104; JP 4167976 B2 20081022; KR 100868699 B1 20081113; KR 20040012979 A 20040211; MX PA03011887 A 20040603; RU 2004102685 A 20050627; RU 2286222 C2 20061027; UA 84389 C2 20081027; US 2004244450 A1 20041209; US 7059161 B2 20060613; ZA 200309614 B 20040618

DOCDB simple family (application)  
**EP 0206358 W 20020611**; AU 2002325236 A 20020611; BR 0210795 A 20020611; CA 2452336 A 20020611; CN 02813271 A 20020611; CZ 20033453 A 20020611; DE 10131850 A 20010630; EP 02758225 A 20020611; JP 2003510892 A 20020611; KR 20037016968 A 20031226; MX PA03011887 A 20020611; RU 2004102685 A 20020611; UA 2004010678 A 20020611; US 48199804 A 20040723; ZA 200309614 A 20031211