

Title (en)
METHOD AND DEVICE FOR ADJUSTING SCREW-DOWN LOCATION OF ROLLING ROLL FORMING THREE-ROLL MANDREL MILL

Title (de)
VERFAHREN UND VORRICHTUNG ZUR EINSTELLUNG DES FESTSCHRAUBORTS VON EIN ROHRWALZWERK MIT DREIWALZEN BILDENDEN WALZEN

Title (fr)
PROCEDE ET DISPOSITIF POUR AJUSTER L'EMPLACEMENT DE SERRAGE D'UN CYLINDRE DE LAMINAGE CONSTITUANT UN LAMINOIR A MANDRIN A TROIS CYLINDRES

Publication
EP 1676651 A4 20070425 (EN)

Application
EP 04792074 A 20041006

Priority
• JP 2004014718 W 20041006
• JP 2003348795 A 20031007

Abstract (en)
[origin: EP1676651A1] According to a method and an apparatus of the present invention for adjusting the rolling positions of the rolling rolls constituting a three-roll mandrel mill, a wall thickness of a rolled material is measured at a position corresponding to a groove bottom portion of each rolling roll, a deviation between each measured wall thickness and a target wall thickness determined by a rolling schedule is computed, and the rolling position of each rolling roll is adjusted based on each computed deviation. Therefore, the rolling position can properly be adjusted. The wall thickness of the rolled material is also measured at both positions corresponding to portions extended toward both flange portion sides from the groove bottom portions of the rolling rolls, and the rolling position of each rolling roll is adjusted based on the deviation between both measured values. Therefore, even if the rolling position of each rolling roll is considered to be apparently proper, actually the rolling position can be properly adjusted. Accordingly, the method and the apparatus of the present invention are widely adopted as means for adjusting the rolling positions of the rolling rolls constituting the three-roll mandrel mill.

IPC 8 full level
B21B 17/02 (2006.01); **B21B 37/78** (2006.01); **B21B 17/04** (2006.01); **B21B 38/04** (2006.01)

CPC (source: EP)
B21B 17/02 (2013.01); **B21B 37/78** (2013.01); **B21B 17/04** (2013.01); **B21B 38/04** (2013.01)

Citation (search report)
• [YA] JP 2001293503 A 20011023 - SUMITOMO METAL IND
• [Y] DE 10201717 C1 20030410 - SMS MEER GMBH [DE]
• [A] JP S60261614 A 19851224 - SUMITOMO METAL IND
• [A] JP 2003220403 A 20030805 - SUMITOMO METAL IND & US 2004065133 A1 20040408 - SASAKI KENICHI [JP], et al
• See references of WO 2005035153A1

Designated contracting state (EPC)
DE FR IT

DOCDB simple family (publication)
EP 1676651 A1 20060705; EP 1676651 A4 20070425; EP 1676651 B1 20110126; CN 100411759 C 20080820; CN 1863609 A 20061115; DE 602004031247 D1 20110310; EP 2085157 A1 20090805; EP 2085157 B1 20120418; RU 2006115561 A 20071120; RU 2319564 C1 20080320; WO 2005035153 A1 20050421

DOCDB simple family (application)
EP 04792074 A 20041006; CN 200480029399 A 20041006; DE 602004031247 T 20041006; EP 09006388 A 20041006; JP 2004014718 W 20041006; RU 2006115561 A 20041006