

Title (en)
DEVICE AND METHOD FOR CALIBRATING A ROLLER LEVELLER MACHINE BY MEANS OF AN INSTRUMENTED BAR

Title (de)
VORRICHTUNG UND VERFAHREN ZUM KALIBRIEREN EINER ROLLENRICHTMASCHINE MITTELS EINES INSTRUMENTIERTEN STABS

Title (fr)
DISPOSITIF ET PROCEDE DE CALIBRAGE D'UNE PLANEUSE A ROULEAUX PAR BARRE INSTRUMENTEE

Publication
EP 1601477 A1 20051207 (FR)

Application
EP 04716623 A 20040303

Priority

- FR 2004000497 W 20040303
- FR 0302845 A 20030307

Abstract (en)
[origin: US2007033976A1] A device for calibrating a multi-roll leveler for leveling a metal strip includes an assembly having two series of rolls, namely upper rolls and lower rolls which face each other so as to imbricate the rolls of one series into those of the other. The series of rolls are placed substantially parallel to each other and perpendicular to the run direction of the strip to be leveled. A rigid measurement bar of sufficient length is positioned in the leveling direction between the upper and lower rolls, extending over all the rolls, and having rigid protrusions integral with the bar reproducing, when they are placed plumb with the lower rolls, the action of the lower rolls and their mechanical properties. A thin metal plate rests on these protrusions and is fastened to one of them at around the middle of the bar and includes extensometers for measuring its elastic deformations.

IPC 1-7
B21D 1/02

IPC 8 full level
B21D 1/02 (2006.01)

CPC (source: EP KR US)
B21C 51/00 (2013.01 - KR); **B21D 1/02** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2004080626A1

Cited by
CN114653784A; CN102335684A

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2007033976 A1 20070215; US 7584638 B2 20090908; AT E390964 T1 20080415; BR PI0408672 A 20060328; BR PI0408672 B1 20150818; CA 2517803 A1 20040923; CA 2517803 C 20110816; CN 100377802 C 20080402; CN 1771099 A 20060510; DE 602004012843 D1 20080515; DE 602004012843 T2 20090514; EP 1601477 A1 20051207; EP 1601477 B1 20080402; ES 2301976 T3 20080701; FR 2851943 A1 20040910; FR 2851943 B1 20050408; JP 2006519703 A 20060831; JP 4512585 B2 20100728; KR 101141265 B1 20120524; KR 20050106090 A 20051108; PL 1601477 T3 20080930; PT 1601477 E 20080516; RU 2005130935 A 20060610; RU 2336134 C2 20081020; SI 1601477 T1 20080831; WO 2004080626 A1 20040923

DOCDB simple family (application)
US 54898804 A 20040303; AT 04716623 T 20040303; BR PI0408672 A 20040303; CA 2517803 A 20040303; CN 200480009480 A 20040303; DE 602004012843 T 20040303; EP 04716623 A 20040303; ES 04716623 T 20040303; FR 0302845 A 20030307; FR 2004000497 W 20040303; JP 2006505686 A 20040303; KR 20057016616 A 20040303; PL 04716623 T 20040303; PT 04716623 T 20040303; RU 2005130935 A 20040303; SI 200430700 T 20040303