

Title (en)  
DEVICE AND METHOD FOR CALIBRATING A MULTIPLE-ROLLER FLATTENER

Title (de)  
VORRICHTUNG UND VERFAHREN ZUM KALIBRIEREN EINER MEHRROLLENRICHTMASCHINE

Title (fr)  
DISPOSITIF ET PROCEDE DE CALIBRAGE D'UNE PLANEUSE MULTI-ROULEAUX

Publication  
**EP 1333941 B1 20040519 (FR)**

Application  
**EP 01996438 A 20011114**

Priority  
• FR 0103557 W 20011114  
• FR 0014821 A 20001117

Abstract (en)  
[origin: US6993947B2] A metal measurement plate ( 5 ), having a size suitable for being placed between the set of upper rolls and the set of lower rolls of the leveler, has positioning means ( 60, 61, 62 ) for positioning it with respect to the rolls in the leveling direction, and strain gauges ( 51 ) for measuring elastic deformations of the plate during clamping on the leveler, said strain gauges being fastened to the plate so as to form several transverse rows of gauges ( 51 to 56 ) each located vertically in line with one of said rolls, on the opposite face of the plate with respect to said roll.

IPC 1-7  
**B21D 1/02**

IPC 8 full level  
**B21D 1/02** (2006.01); **B21D 1/05** (2006.01)

CPC (source: EP KR US)  
**B21B 37/00** (2013.01 - KR); **B21D 1/02** (2013.01 - EP US); **B21D 1/05** (2013.01 - EP US)

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**WO 0240191 A2 20020523**; **WO 0240191 A3 20030116**; AT E267061 T1 20040615; AU 2306602 A 20020527; BR 0115406 A 20031007; CA 2428496 A1 20020523; CA 2428496 C 20090623; CN 1262364 C 20060705; CN 1486225 A 20040331; CZ 20031345 A3 20040114; CZ 304540 B6 20140625; DE 60103423 D1 20040624; DE 60103423 T2 20050630; EP 1333941 A2 20030813; EP 1333941 B1 20040519; ES 2221660 T3 20050101; FR 2816856 A1 20020524; FR 2816856 B1 20030131; JP 2004513788 A 20040513; JP 4047168 B2 20080213; KR 100780462 B1 20071128; KR 20030064788 A 20030802; PL 198786 B1 20080731; PL 360715 A1 20040920; PT 1333941 E 20041029; RU 2277026 C2 20060527; TR 200401623 T4 20040823; US 2004089044 A1 20040513; US 6993947 B2 20060207

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