

Title (en)  
DEVICE FOR MEASURING THE ROLL GAP BETWEEN THE WORKING ROLLERS OF A COLD OR WARM ROLLING STAND

Title (de)  
EINRICHTUNG ZUR MESSUNG DES WALZSPALTES ZWISCHEN ARBEITSWALZEN EINES KALT- ODER WARMWALZGERÜSTES

Title (fr)  
DISPOSITIF DE MESURE DE L'EMPRISE ENTRE LES CYLINDRES DE TRAVAIL D'UNE STRUCTURE DE LAMINAGE A FROID OU A CHAUD

Publication  
**EP 1453620 B1 20110202 (DE)**

Application  
**EP 02787736 A 20021120**

Priority

- DE 10161094 A 20011212
- DE 10202526 A 20020124
- EP 0212976 W 20021120

Abstract (en)  
[origin: US7174758B2] A device for measuring the roll gap ( 7 ) between the working rollers ( 1 a: 1 b) of a cold or warm rolling stand for rolling out narrow or wide strips of metal, especially NE metal strips, by means of roll gap sensors ( 6 ) whose signals are transmitted to the servo-valves of the compressed oil control as a roll gap setpoint value for the piston cylinder units influencing said roll gap ( 7 ), and used to provide a roller gap measurement which is also suitable for such cases involving the lateral progression of said strip. In order to achieve said aim, the position or travel sensor ( 6 ) is provided in at least one bending cylinder ( 5 a ;5 b) for the working cylinder ( 1 a, 1 b) for indirect reference measurement of the roll gap via the positively or negatively acting bending cylinders ( 5 a; 5 b).

IPC 8 full level  
**B21B 29/00** (2006.01); **B21B 38/10** (2006.01); **B21C 51/00** (2006.01)

CPC (source: EP US)  
**B21B 38/10** (2013.01 - EP US); **B21B 29/00** (2013.01 - EP US)

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

DOCDB simple family (publication)  
**WO 03053604 A1 20030703**; AT E497414 T1 20110215; AU 2002352062 A1 20030709; BR 0214472 A 20040914; BR 0214472 B1 20100921; CA 2469077 A1 20030703; CA 2469077 C 20110201; CN 1313220 C 20070502; CN 1604825 A 20050406; DE 50214899 D1 20110317; EP 1453620 A1 20040908; EP 1453620 B1 20110202; ES 2359805 T3 20110527; JP 2005512815 A 20050512; JP 4886966 B2 20120229; RU 2004121181 A 20050610; RU 2296020 C2 20070327; TW 200301714 A 20030716; TW I271226 B 20070121; UA 90649 C2 20100525; US 2005066698 A1 20050331; US 7174758 B2 20070213

DOCDB simple family (application)  
**EP 0212976 W 20021120**; AT 02787736 T 20021120; AU 2002352062 A 20021120; BR 0214472 A 20021120; CA 2469077 A 20021120; CN 02824951 A 20021120; DE 50214899 T 20021120; EP 02787736 A 20021120; ES 02787736 T 20021120; JP 2003554357 A 20021120; RU 2004121181 A 20021120; TW 91134048 A 20021122; UA 20040705608 A 20021120; US 49865304 A 20040610