

Title (en)

METHOD FOR SETTING THE TRAVEL OF A PRESS BRAKE

Title (de)

VERFAHREN ZUR EINSTELLUNG DER BAHN EINER ABKANTPRESSE

Title (fr)

PROCEDE DE REGLAGE DE LA COURSE D'UNE PRESSE-PLIEUSE

Publication

EP 1401593 B1 20050608 (FR)

Application

EP 02703430 A 20020315

Priority

- CH 0200154 W 20020315
- CH 4902001 A 20010316

Abstract (en)

[origin: US7079919B2] A method for setting the travel of a press brake comprising at least one sensor, which measures a physical parameter (p) that varies with the force exerted by the punch on a piece of sheet metal placed on the die, and an electronic device that controls the displacement of the mobile apron. Instantaneous bending angle α under load of the piece is calculated as a function of the displacement; the bearing force (f) of the punch on the piece is calculated using the value of the physical parameter (p); the sequence of values for the instantaneous bending angle/bearing force pair (α , f) is compared to a reference curve (α , f)_{ref} which is pre-recorded during a bending operation involving the same material, and the electronic device calculates a bottom dead center correction taking account of the deviation between the (α , f) pairs and reference curve (α , f)_{ref}.

IPC 1-7

B21D 5/02

IPC 8 full level

B21D 5/02 (2006.01)

CPC (source: EP US)

B21D 5/02 (2013.01 - EP US)

Cited by

US7607329B2; WO2008119090A1

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 02074463 A1 20020926; AT E297272 T1 20050615; CN 1286590 C 20061129; CN 1496289 A 20040512; DE 60204568 D1 20050714; DE 60204568 T2 20060524; EP 1401593 A1 20040331; EP 1401593 B1 20050608; ES 2244749 T3 20051216; JP 2004520939 A 20040715; JP 4050619 B2 20080220; US 2004111177 A1 20040610; US 7079919 B2 20060718

DOCDB simple family (application)

CH 0200154 W 20020315; AT 02703430 T 20020315; CN 02806558 A 20020315; DE 60204568 T 20020315; EP 02703430 A 20020315; ES 02703430 T 20020315; JP 2002573164 A 20020315; US 47206803 A 20030916