

Title (en)  
MEASURING DEVICE

Title (de)  
MESSVORRICHTUNG

Title (fr)  
DISPOSITIF DE MESURE

Publication  
**EP 1519800 A1 20050406 (DE)**

Application  
**EP 03706196 A 20030314**

Priority  
• CH 0300170 W 20030314  
• CH 4462002 A 20020314

Abstract (en)  
[origin: WO03076099A1] The invention relates to a measuring device (60) for angles (  $\alpha$  ) on machined edges or apexes (48) of a workpiece (28), comprising a continuous groove (26) for receiving an edge or an apex (48). At least two rod-shaped measuring probes (38) run perpendicularly in pairs outside the groove (26) and can be displaced against the resistance of a spring (40) in the y-direction by the workpiece (28) that rests on said probes. A device (66) for recording the relative displacement of the measuring probes (38) is located opposite the measuring device (60) in the y-direction. Finally, the measuring device (60) also comprises a mechanical-electrical measuring transducer (68) for generating signals from the longitudinal displacement of the measuring probes (38) and a processor (70) comprising a stored calibration matrix for angles (  $\alpha$  ) that are to be set. According to one basic application, the measuring device is integrated into a bending die (24) of a folding press (10) and can measure bending angles (  $\alpha$  ). A calibration matrix can be generated for the measuring device (60).

IPC 1-7  
**B21D 5/02**

IPC 8 full level  
**B21D 5/02** (2006.01)

CPC (source: EP)  
**B21D 5/0209** (2013.01)

Cited by  
US11565295B2

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 PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 03076099 A1 20030918**; AT E369217 T1 20070815; AU 2003208243 A1 20030922; CH 695668 A5 20060731; DE 50307896 D1 20070920; EP 1519800 A1 20050406; EP 1519800 B1 20070808

DOCDB simple family (application)  
**CH 0300170 W 20030314**; AT 03706196 T 20030314; AU 2003208243 A 20030314; CH 4462002 A 20020314; DE 50307896 T 20030314; EP 03706196 A 20030314