

Title (en)

SEQUENTIAL MULTI-PROBE METHOD FOR MEASUREMENT OF THE STRAIGHTNESS OF A STRAIGHTEDGE

Title (de)

SEQUENTIELLES MULTISONDENVERFAHREN ZUR MESSUNG DER GERADHEIT EINER MESSLATTE

Title (fr)

PROCEDE SEQUENTIEL A SONDAS MULTIPLES DESTINE A LA MESURE DE LA RECTITUDE D'UNE REGLE D'AJUSTEUR

Publication

**EP 1828715 A1 20070905 (EN)**

Application

**EP 05824115 A 20051212**

Priority

- IB 2005054175 W 20051212
- EP 04106644 A 20041216
- EP 05824115 A 20051212

Abstract (en)

[origin: WO2006064445A1] A system and method for measurement of the straightness of a straightedge, said measurement system comprising a multi-probe (4a, 4b, 4c) device (4) for sequentially measuring along the straightedge (3) using a carriage (4) moving along a guide way (G(x)). The carriage (4) is moved along one surface (S (x) ) of the straightedge (3) to take measurements, is then transferred to an opposite surface (S ' (x) ) of the straightedge (3) and moved along the opposite surface of the straightedge (3) to take measurements. By adding and subtracting of the measurement points taken at the opposing surfaces of the straightedge, a systematic error due to the probe can be identified, whereby the measurement of the straightness of the straightedge is improved. Errors in manufacturing and measurements of work pieces and other parts may thereby be reduced. The method and apparatus can also be used for on-line calibrations of straightness .

IPC 8 full level

**G01B 21/20** (2006.01)

CPC (source: EP)

**G01B 5/207** (2013.01); **G01B 21/20** (2013.01)

Citation (search report)

See references of WO 2006064445A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2006064445 A1 20060622**; CN 101080609 A 20071128; EP 1828715 A1 20070905; JP 2008524576 A 20080710

DOCDB simple family (application)

**IB 2005054175 W 20051212**; CN 200580043016 A 20051212; EP 05824115 A 20051212; JP 2007546258 A 20051212