

Title (en)

Device for determining the feed rate of a finishing belt

Title (de)

Einrichtung zur Erfassung des Vorschubs eines Finishbands

Title (fr)

Dispositif de détection de l'avancée d'une bande de finition

Publication

EP 2452779 A1 20120516 (DE)

Application

EP 10191368 A 20101116

Priority

EP 10191368 A 20101116

Abstract (en)

The Detection mechanism (44) has an attachment section (74) for attaching to a finishing line (42). A motion of the line is transferred to the attachment section. A sensor device (96) includes a sensor (92) and a reference section (82) in cooperation with the sensor. The reference section or the sensor is movably coupled with the attachment section. The sensor device is designed in the form of displacement measuring device or distance measuring device. The reference section is designed in the form of reference surface (86) that exhibits different radii of curvature along a gradient. An independent claim is also included for a device for finished processing of a workpiece, including a drive device.

Abstract (de)

Die Erfindung betrifft eine Einrichtung (44) zur Erfassung des Vorschubs eines Finishbands (42), mit einem Anlageabschnitt (74) zur Anlage an das Finishband (42), wobei der Anlageabschnitt (74) bewegbar und eine Bewegung des Finishbands (42) auf den Anlageabschnitt (74) übertragbar ist, und mit einer Sensoreinrichtung (96), welche einen Sensor (92) und einen mit dem Sensor (92) zusammenwirkenden Referenzabschnitt (82) umfasst, wobei der Referenzabschnitt (82) oder der Sensor (92) mit dem Anlageabschnitt (74) bewegungsgekoppelt ist.

IPC 8 full level

B24B 21/00 (2006.01); **B24B 21/20** (2006.01); **B24B 35/00** (2006.01); **B24B 49/00** (2012.01)

CPC (source: EP US)

B24B 21/004 (2013.01 - EP US); **B24B 21/20** (2013.01 - EP US); **B24B 35/00** (2013.01 - EP US); **B24B 49/00** (2013.01 - EP US)

Citation (applicant)

DE 19905139 A1 20000810 - NAGEL MASCH WERKZEUG [DE]

Citation (search report)

- [X1] US 6482072 B1 20021119 - GURUSAMY JAYAKUMAR [US], et al
- [A] US 6006843 A 19991228 - CORRADO FRANK C [US], et al
- [AD] DE 19905139 A1 20000810 - NAGEL MASCH WERKZEUG [DE]

Cited by

GB2539611A; GB2539611B; US9802291B2; WO2015169484A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2452779 A1 20120516; **EP 2452779 B1 20130424**; US 2012122375 A1 20120517

DOCDB simple family (application)

EP 10191368 A 20101116; US 201113235790 A 20110919