

Title (en)

METHOD FOR CALIBRATING SENSORS OF A TACTILE COORDINATE MEASURING DEVICE THAT PROVIDE MEASURED VALUES

Title (de)

VERFAHREN ZUM KALIBRIEREN VON MESSWERTGEBENDEN SENSOREN EINES TAKTILEN KOORDINATENMESSGERÄTES

Title (fr)

PROCÉDÉ DESTINÉ À ÉTALONNER DES CAPTEURS RENVOYANT DES VALEURS DE MESURE, LESQUELS ÉQUIPENT UN APPAREIL DE MESURE DE COORDONNÉES TACTILE

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Application

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Abstract (en)

[origin: WO2012095430A1] The invention relates to a method for calibrating sensors of a tactile coordinate measuring device that provide measured values, wherein a calibration object (71) is contacted at a plurality of contact points by a tracer pin (64) attached to the coordinate measuring device, wherein a sensor (70) produces sensor signals which correspond to a deflection of the tracer pin (64) during contacting, wherein calibration parameters of the sensor (70) are determined from the sensor signals and from information about the location of each contact point contacted. At least two tracer pins (64a-64e), which can be jointly deflected relative to the sensor (70) and the tracer pin longitudinal axes of which are oriented in different directions, are used in succession for contacting, wherein contact points of the calibration object (71) are contacted by the at least two tracer pins (64a-64e), wherein the tracer pins (64a-64e) are deflected relative to the sensor (70) when the calibration object (71) is contacted, wherein the sensor signals corresponding to a deflection of the tracer pins (64a-64e) during contacting are produced using the sensor (70), and wherein the calibration parameters of the sensor (70) are determined from the sensor signals and from information about the location of each contact point contacted by one of the tracer pins (64a-64e) in a optimization calculation common to the tracer pins (64a-64e).

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Citation (search report)

See references of WO 2012095430A1

Citation (examination)

- DE 19960191 A1 20010628 - ZEISS CARL [DE]
- WO 02090877 A2 20021114 - ZEISS CARL [DE], et al

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