

Title (en)

REAL-TIME MEASUREMENT OF RELATIVE POSITION DATA AND/OR OF GEOMETRICAL DIMENSIONS OF A MOVING BODY USING OPTICAL MEASURING MEANS

Title (de)

ECHTZEITMESSUNG VON RELATIVEN POSITIONSDATEN UND/ODER VON GEOMETRISCHEN MAßEN EINES BEWEGTEN KÖRPERS UNTER VERWENDUNG OPTISCHER MESSMITTEL

Title (fr)

MESURE EN TEMPS RÉEL DE DONNÉES DE POSITION RELATIVE ET/OU DE COTES GÉOMÉTRIQUES D'UN CORPS EN MOUVEMENT EN UTILISANT DES MOYENS DE MESURE OPTIQUE

Publication

**EP 2769175 A1 20140827 (DE)**

Application

**EP 12787628 A 20120924**

Priority

- AT 15342011 A 20111020
- AT 2012050142 W 20120924

Abstract (en)

[origin: WO2013056289A1] The invention relates to the real-time measurement of relative position data and/or of geometrical dimensions of a moving body (1) by lighting unit (2) and a detector unit (4), wherein the moving body (1) is movably guided relative to both of said units. Light beams (3) are transmitted from the lighting unit (2) towards the detector unit (4); the moving body (1) protrudes between the lighting unit (2) and the detector unit (4) into the volume flooded by the light beams (3), so that the shadow border of the shadow thrown by the moving body (4) extends over the detector unit (4). The detector unit (4) comprises a two-dimensional optical position detector (4.1), which is designed as a two-dimensional optical waveguide containing photo-luminescent particles. Signals from said two-dimensional optical waveguide are read out by a plurality of small-area photoelectric sensors (4.1.1) spaced apart from one another, the strength of the signals correlating with the intensity of the light (4.1.1) at the sensor location in waveguide mode.

IPC 8 full level

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CPC (source: EP US)

**G01B 11/02** (2013.01 - US); **G01B 11/028** (2013.01 - EP US); **G01B 11/14** (2013.01 - US)

Citation (search report)

See references of WO 2013056289A1

Citation (examination)

- JP 2003170335 A 20030617 - UNION TOOL KK
- JP 2008197063 A 20080828 - REYOON KOGYO KK

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