

Title (en)
METHOD AND DEVICE FOR CONTACTLESS DISTANCE MEASUREMENT

Title (de)
VERFAHREN UND VORRICHTUNG ZUR BERÜHRUNGSLOSEN ABSTANDSMESSUNG

Title (fr)
PROCÉDÉ ET DISPOSITIF DE MESURE DE DISTANCE SANS CONTACT

Publication
EP 2874778 A1 20150527 (DE)

Application
EP 13729603 A 20130612

Priority
• DE 102012106613 A 20120720
• EP 2013001720 W 20130612

Abstract (en)
[origin: WO2014012610A1] The invention relates to a method and device (1) for contactless distance measurement in which method a distance (a) of an object (2) from a reference point (3) is determined by a laser beam (4) in an illustrated measuring cycle. During the measuring cycle the measuring point (5) is moved relative to the object (2) to be measured along a predetermined course of a closed circumferential contour (7) on the object (2) at a constant relative speed. Because distance measurement is implemented in this dynamic way, the laser energy is focussed only on the respective measuring point (5) of the circumferential contour (7) for an extremely brief period and therefore the energy input acting on a respective point on the surface of the object (2) is comparatively small.

IPC 8 full level
B23K 26/08 (2014.01); **G01B 11/02** (2006.01); **G01B 11/24** (2006.01)

CPC (source: EP)
B23K 26/032 (2013.01); **B23K 26/048** (2013.01); **B23K 26/0853** (2013.01); **G01B 11/026** (2013.01); **G01B 11/24** (2013.01)

Citation (search report)
See references of WO 2014012610A1

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)
DE 102012106613 B3 20131224; EP 2874778 A1 20150527; WO 2014012610 A1 20140123

DOCDB simple family (application)
DE 102012106613 A 20120720; EP 13729603 A 20130612; EP 2013001720 W 20130612