Title (en)
METHOD AND DEVICE FOR MEASURING THE SPATIAL EXTENSION OF AN OBJECT

Title (de)
VERFAHREN UND VORRICHTUNG ZUM VERMESSEN DER RÄUMLICHEN AUSDEHNUNG EINES OBJEKTES

Title (fr)
PROCÉDÉ ET DISPOSITIF POUR MESURER LES DIMENSIONS D'UN OBJET

Publication
EP 2433088 A1 20120328 (DE)

Application
EP 10740701 A 20100531

Priority
• IB 2010001340 W 20100531
• CH 7762009 A 20090518

Abstract (en)
[origin: WO2010133966A1] The device comprises a measuring track (17) through which an object (1) is driven or moved, a laser (2) having a telecentric lens/Fresnel lens (3) for producing a perpendicular beam curtain (4) extending transversely to the measuring track (17). Furthermore, a camera (6) is arranged with an offset to the laser (2) in the longitudinal direction of the measuring track (17), likewise having a telecentric lens/ Fresnel lens (7) placed in front. All light points of the laser light line (5) incident on the floor of the measuring track that are reflected undisturbed on the floor of the measuring track (17) are detected at an acute angle from the beam curtain (4) using said camera. Furthermore, means for detecting and recording the speed of the object (1) moved on the measuring track (17) through the beam curtain (4) are provided so that a distance-time diagram can be created. From the data thus obtained, the floor contour of the object can be determined, in other words, the shadow of the object on the floor resulting from the vertically incident light. The maximum height of the object is also determined using a light barrier arrangement.

IPC 8 full level
G01B 11/02 (2006.01); **G01B 11/24** (2006.01)

CPC (source: EP US)
G01B 11/0691 (2013.01 - EP US); **G01B 11/2433** (2013.01 - EP US)

Citation (search report)
See references of WO 2010133966A1

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 SE SI SK SM TR

DOCDB simple family (publication)
WO 2010133966 A1 20101125; **WO 2010133966 A4 20110120**; CH 701106 A2 20101130; CH 701106 B1 20130815; EP 2433088 A1 20120328; JP 2013527423 A 20130627; US 2012113437 A1 20120510

DOCDB simple family (application)
IB 2010001340 W 20100531; CH 7762009 A 20090518; EP 10740701 A 20100531; JP 2012511365 A 20100531; US 201013321136 A 20100531