

Title (en)

METHOD AND DEVICE FOR DETERMINING THE POSITION COORDINATES OF A TARGET OBJECT

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BESTIMMEN DER ORTSKOORDINATEN EINES ZIELOBJEKTES

Title (fr)

PROCÉDÉ ET DISPOSITIF DE DÉTERMINATION DES COORDONNÉES DANS L'ESPACE D'UN OBJET CIBLE

Publication

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Application

EP 13814497 A 20131217

Priority

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- EP 2013076802 W 20131217

Abstract (en)

[origin: WO2014095784A1] Method for determining the position coordinates (XM, YM, ZM) of a target object (11) in a measurement range (12) in at least two dimensions (X, Y, Z), with the steps: ■ a target device (13) with a reflector element (31) is positioned at the target object (11), ■ a laser beam (46) is transmitted from a transmitting element (41) of a laser distance measurement device (14) onto the target device (13), ■ at least a part of the laser beam (46) is partially reflected on the reflector element (31), ■ a camera device (15) records an image of the target device (13) with the at least partially reflected laser beam as a light reflection, ■ the focus of the light reflection in the image of the target device (13) is determined, ■ a receiver element in the laser distance measuring device (14) receives the laser beam partially reflected on the reflector element (31) as the received beam, ■ a distance to the target object (11) is calculated from the received beam, ■ a first offset is calculated from a focal length of the camera device (15), the calculated distance to the target object (11) and a first image coordinate of the focus of the light reflection, ■ the position coordinates (XM, YM, ZM) of the target object (11) are calculated from the distance and the first offset.

IPC 8 full level

G01C 15/00 (2006.01); **G01S 7/4913** (2020.01); **G01S 17/46** (2006.01); **G01S 17/86** (2020.01)

CPC (source: CN EP US)

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Citation (search report)

See references of WO 2014095784A1

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