

Title (en)

DEVICE FOR OPTICAL DISTANCE MEASUREMENT AND METHOD FOR ADJUSTING SUCH A DEVICE

Title (de)

VORRICHTUNG ZUR OPTISCHEN DISTANZMESSUNG SOWIE VERFAHREN ZUR JUSTIERUNG EINER SOLCHEN VORRICHTUNG

Title (fr)

DISPOSITIF DE MESURE OPTIQUE DE DISTANCE, ET PROCÉDÉ DE RÉGLAGE D'UN TEL DISPOSITIF

Publication

EP 2473819 A1 20120711 (DE)

Application

EP 10735297 A 20100728

Priority

- DE 102009029026 A 20090831
- EP 2010060928 W 20100728

Abstract (en)

[origin: WO2011023484A1] The invention relates to a device for optical distance measurement, particularly to a handheld electro-optical distance meter, comprising a transmitter (60) for emitting modulated optical radiation (78) along a transmission path (70) to a target object (14), and further comprising a receiver (62) spaced apart from the optical axis (72) of the transmitter (60) for receiving the optical radiation (80) returning from the target object (14). According to the invention, the transmission path (70) of the device has an adjustment unit (18) with at least one prism (22, 26, 30, 32). The invention further relates to a method for adjusting a handheld electro-optical distance meter, wherein at least one prism (22, 26, 30, 32) of an adjustment unit (18) of the device is rotated to adjust the transmission path (70) of the distance meter to the field of sight of a detector (64) on the receiver (62) of the device.

IPC 8 full level

G01C 3/08 (2006.01); **G01C 15/00** (2006.01); **G01S 7/481** (2006.01); **G01S 17/08** (2006.01); **G02B 26/08** (2006.01)

CPC (source: EP)

G01C 3/08 (2013.01); **G01C 15/00** (2013.01); **G01S 7/4814** (2013.01); **G01S 7/497** (2013.01); **G01S 17/08** (2013.01); **G02B 26/0883** (2013.01); **G02B 27/62** (2013.01)

Citation (search report)

See references of WO 2011023484A1

Citation (examination)

- US 2002030900 A1 20020314 - TOMINAGA TAKAHIRO [JP]
- US 4034949 A 19770712 - HOESTEREY HOWARD FREDERICK, et al
- JP 2008089393 A 20080417 - SOATEC INC
- EP 1517117 A1 20050323 - LEICA GEOSYSTEMS AG [CH]

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)

DE 102009029026 A1 20110303; CN 102575932 A 20120711; EP 2473819 A1 20120711; WO 2011023484 A1 20110303

DOCDB simple family (application)

DE 102009029026 A 20090831; CN 201080048695 A 20100728; EP 10735297 A 20100728; EP 2010060928 W 20100728