

Title (en)

DISTANCE MEASURING ARRANGEMENT FOR DETERMINING A DISTANCE FROM AN OBJECT

Title (de)

ABSTANDSMESSANORDNUNG ZUR BESTIMMUNG EINES ABSTANDES ZU EINEM OBJEKT

Title (fr)

ASSEMBLAGE DE MESURE DE DISTANCE PRÉVU POUR DÉTERMINER UNE DISTANCE PAR RAPPORT À UN OBJET

Publication

**EP 3622246 A1 20200318 (DE)**

Application

**EP 18722565 A 20180509**

Priority

- EP 17170788 A 20170512
- EP 2018062150 W 20180509

Abstract (en)

[origin: WO2018206731A1] The present disclosure relates to a distance measuring arrangement for determining a distance from an object (20), wherein the distance measuring arrangement comprises the following: – at least one light source (12) for producing at least one first monochromatic and interference-capable light beam (12.1) with a first wavelength and for producing at least one second monochromatic and interference-capable light beam (12.2) with a second wavelength, – a multiplexer (14) for coupling or combining the at least first light beam (12.1) and the at least second light beam (12.2) into a common measurement beam (M), – an output coupling element (45) for splitting the measurement beam (M) into a reference beam (R) and into a signal beam (S), wherein the reference beam (R) propagates along a reference path (RP) and wherein the signal beam (S) propagates along a signal path (SP), – a phase modulator (60; 160), which is arranged in the signal path (SP) and which is configured to modulate the phase of the signal beam (S) in a time-periodic manner.

IPC 8 full level

**G01B 9/02** (2006.01); **G01B 11/24** (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2018206731A1

Designated contracting state (EPC)

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BA ME

DOCDB simple family (publication)

**EP 3401634 A1 20181114**; CN 110785623 A 20200211; CN 110785623 B 20220531; DE 202018006722 U1 20220512; EP 3622246 A1 20200318; JP 2020519893 A 20200702; JP 6997807 B2 20220118; US 11015916 B2 20210525; US 2020200523 A1 20200625; WO 2018206731 A1 20181115

DOCDB simple family (application)

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