

Title (en)

METHOD AND DEVICE FOR OPTO-ELECTRONICALLY DETERMINING THE POSITION OF AN OBJECT

Title (de)

VERFAHREN UND VORRICHTUNG ZUR OPTOELEKTRONISCHEN POSITIONSBESTIMMUNG EINES GEGENSTANDES

Title (fr)

PROCEDE ET DISPOSITIF POUR DETERMINER LA POSITION D'UN OBJET PAR OPTOELECTRONIQUE

Publication

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Application

EP 01940480 A 20010516

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Abstract (en)

[origin: WO0190770A1] The invention relates to a method and a device for opto-electronically determining the position of an object (50) using a measurement assembly, which is separated from the object (50) by a medium (31, 52) that is permeable to at least one type of specific radiation. The measurement assembly consists of at least one active sensor zone (S) in the medium comprising at least two measuring paths (x, y), which are maintained by at least two radiation sources (1, 3) that emit the specified radiation and by at least one radiation receiver (2) that is allocated to the radiation sources. Said receiver determines the reflection (53) returned by the object (50) to generate a detection signal which corresponds to the received radiation. A specified radiation is emitted using the radiation sources (1, 3) and the reflection (53) returned by the object (50) is detected, in order to allocate initial values (U(t), UR(d)) to the individual measuring paths. The invention is characterised in that an evaluation unit (55) determines the position and/or displacement of the object (50) by determining a specified angular curve of the object in relation to the radiation sources (1, 3, 57) from the initial value (UR(T), UR(d)), for a known spatial relationship between the radiation sources. This allows the position and/or displacement of an object to be opto-electronically detected in a simple and practical manner.

IPC 1-7

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