

Title (en)

MICROWAVE POSITION MEASUREMENT APPARATUS AND POSITION MEASUREMENT METHOD

Title (de)

MIKROWELLEN-POSITIONSMESSVORRICHTUNG UND POSITIONSMESSVERFAHREN

Title (fr)

DISPOSITIF DE MESURE DE POSITION HYPERFRÉQUENCE ET PROCÉDÉ DE MESURE DE POSITION

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Application

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Abstract (en)

[origin: WO2007128369A1] The invention relates to a position measurement method and a microwave position measurement apparatus for detecting the position of an actuator element (14) of an actuator (11), said element being arranged such that it can move in an interior (12) of an actuator housing (13). The position measurement apparatus has a radio-frequency microwave antenna arrangement (34) for transmission of microwaves (43) into the interior (12) and for reception of reflected microwaves (44, 44') from the interior (12) which are produced by at least partial reflection of the transmitted microwaves (43, 53) on the actuator element (14), and evaluation means (42) for producing, on the basis of the reflected microwaves (44, 44'), a position signal (52) which represents the respective position (x) of the actuator element (14). The microwave position measurement apparatus (30) is characterized in that in the interior of the actuator housing (13) at least one stationary reflective means (50) is arranged and in that the evaluation means (42), for the purpose of calibration, evaluate the microwaves (43) that are reflected by the at least one reflective means.

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