

Title (en)

MAGNETIC FIELD SENSOR ASSEMBLY FOR CAPTURING TRAVEL ON MOVABLE PARTS

Title (de)

MAGNETFELDSSENSORANORDNUNG ZUR WEGERFASSUNG AN BEWEGLICHEN BAUTEILEN

Title (fr)

AGENCEMENT DE CAPTEURS DE CHAMP MAGNÉTIQUE POUR LA DÉTERMINATION DES COURSES DE COMPOSANTS MOBILES

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Application

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Abstract (en)

[origin: WO2011085833A2] The invention relates to a magnetic field sensor assembly for capturing travel on moved parts, wherein three-dimensional components of the magnetic field of a magnetic system on the moved part change direction over the travel (6) to be captured, and as a result the position of said components with respect to a stationary sensor (5) can be accordingly detected. On the part, which can be moved in a linear manner and in a further degree of freedom, at least one magnet (3,4; 7; 11,12; 14) is present as an integral part of the magnet system, or another magnetic part is present, the outer periphery of which is associated with at least one stationary sensor (5) sensitive to the direction of the magnetic field, said sensor being located at a predefined distance opposite of said periphery, wherein the preferred direction of the magnetic field of the magnet (3,4; 7; 11,12; 14) is oriented at a predetermined angle with respect to the travel (6) of the moved part between zero and less than 90°.

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