

Title (en)

DEVICE FOR DETERMINING THE TORQUE AND/OR ROTATIONAL ANGLE BETWEEN A FIRST SHAFT AND A SECOND SHAFT

Title (de)

VORRICHTUNG ZUR BESTIMMUNG DES DREHMOMENTS UND/ODER DES DREHWINKELS ZWISCHEN EINER ERSTEN WELLE UND EINER ZWEITEN WELLE

Title (fr)

DISPOSITIF DE DÉTERMINATION DU COUPLE ET/OU DE L'ANGLE DE ROTATION ENTRE UN PREMIER ARBRE ET UN SECOND ARBRE

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Application

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Abstract (en)

[origin: CA3163740A1] The invention relates to a device (1) for determining the torque and/or rotational angle between a first shaft (10) and a second shaft (20) which are coupled, via a gear mechanism (30), so as to be rotatable relative to one another about an axis of rotation (A), wherein the first shaft (10) has a first end region (10a), a second end region (10b) and a first direction vector (R1) pointing, in parallel with the axis of rotation (A), from the first end region (10a) to the second end region (10b), and the second shaft (20) has a first end region (20a), a second end region (20b) and a second direction vector (R2) pointing, in parallel with the axis of rotation (A), from the first end region (20a) to the second end region (20b), wherein the first shaft (10) is in the form of a hollow shaft and the second shaft (20) is arranged coaxially in the first shaft (10) such that the first direction vector (R1) and the second direction vector (R2) have the same orientation, and wherein the first end region (10a) of the first shaft (10) has a first measurement standard (11) and the first end region (20a) of the second shaft (20) has a second measurement standard (21), the first measurement standard (11) being scanned by a first sensor (41) and the second measurement standard (21) being scanned by a second sensor (42).

IPC 8 full level

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