

Title (en)

METHOD AND DEVICE FOR DETERMINING THE TORQUE ON GEAR SHAFTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BESTIMMUNG DES DREHMOMENTS AN GETRIEBEWELLEN

Title (fr)

PROCEDE ET DISPOSITIF POUR DETERMINER LE COUPLE SUR DES ARBRES DE BOITE DE VITESSES

Publication

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Application

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Abstract (en)

[origin: WO2005038421A1] The invention relates to a method and a device for determining the torque on gear shafts. The inventive method and device allow to cyclically measure the speed of a first gear shaft (2, 19) and the speed of a second gear shaft (3, 22) at a constant gear ratio. The first gear shaft (2, 19) is subject to a first torque and the second gear shaft (3, 22) is subject to a second torque and the second gear shaft (3, 22) is driven either directly or indirectly via gears (5, 6, 7, 8; 20, 21) by the first gear shaft (2, 19). A ratio is calculated from these two speeds and is stored, the actual ratio is compared with the ratio of the preceding measurement and if there is a difference between the ratio of the actual measurement and the preceding measurement, it is presumed that the torque on the first gear shaft (2, 19) has changed.

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