

Title (en)

METHOD FOR DETERMINING THE ROTATIONAL SPEED OF THE MAIN SHAFT OF A TRANSMISSION, AND TRANSMISSION COMPRISING A DEVICE FOR DETECTING ROTATIONAL SPEED

Title (de)

VERFAHREN ZUR ERMITTLUNG DER DREHZAHL DER HAUPTWELLE EINES GETRIEBES UND GETRIEBE MIT EINER DREHZAHLABGRIFFSEINRICHTUNG

Title (fr)

PROCÉDÉ POUR DÉTERMINER LA VITESSE DE ROTATION DE L'ARBRE PRINCIPAL D'UNE BOÎTE DE VITESSES ET BOÎTE DE VITESSES ÉQUIPÉE D'UN DISPOSITIF DE DÉTECTION DE LA VITESSE DE ROTATION

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Application

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Abstract (en)

[origin: WO2007134933A1] The invention relates to a method for determining the rotational speed of the main shaft (3) of a transmission. According to the method, the main shaft (3) is connected to an output shaft (4) by means of a planetary gear set (17), the main shaft (3) being rotationally fixed to the sun gear (18) and the output shaft (4) being rotationally fixed to the planet gear carrier (20). The inventive method comprises the following steps: the rotational speed (n_{Hohlrad}) of the ring gear (22) is detected, the rotational speed (n_{Abtrieb}) of the output shaft or the planet gear carrier (20) is detected, and the rotational speed (n_{Hauptwelle}) of the main shaft (3) is calculated from the rotational speed (n_{Hohlrad}) of the ring gear and the rotational speed (n_{Abtrieb}) of the output shaft or the planet gear carrier (20). The invention also relates to a transmission comprising a device for detecting rotational speed.

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