Title (en)

METHOD FOR ESTIMATING THE ANGULAR POSITION, MEASURING DEVICE AND SENSOR BEARING

Title (de)

VERFAHREN ZUR KALKULATION EINER WINKELPOSITION, MESSVORRICHTUNG UND SENSORLAGER

Title (fr)

PROCÉDÉ D'ESTIMATION D'UNE POSITION ANGULAIRE, DISPOSITIF DE MESURE ET SUPPORT DE CAPTEUR

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2011070391A1] In a method for estimating the angular position (ß) of a rotating device (13, 16) with respect to a stationary device (14, 17), first and second signals which represent the angular position (?) of the rotating device (13, 16) with respect to the stationary device (14, 17) are generated. The first and second signals are phase shifted by approximately 90°. A scaled first signal is generated by multiplying the first signal by a first scaling factor, and a third signal is generated by adding the scaled first signal to the second signal. The first scaling factor is chosen such that the phase shift between the first and the third signals is 90° with better accuracy than the phase shift between the first and second signals. The angular position (?) of the rotating device (13, 16) with respect to the stationary device (14, 17) is estimated by utilizing the first and third signals.

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