

Title (en)

METHOD AND DEVICE FOR THE DETECTION OF LOCAL DISPLACEMENTS AND ROTATIONS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERFASSUNG VON ORTSVERSCHIEBUNGEN UND DREHBEWEGUNGEN

Title (fr)

PROCEDE ET DISPOSITIF POUR LA DETECTION DE DEPLACEMENTS LOCAUX ET DE ROTATIONS

Publication

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Application

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Abstract (en)

[origin: WO03087845A2] Disclosed is a method for the detection of local displacements and rotations, wherein a sum signal and additionally a difference signal are formed from two separately generated signals of two transformer elements (W1, W2) which are distanced from each other, whereupon the sum signal and the formed difference signal are OR operated. Also disclosed is a moving incremental scale local frequency doubling device. Said device comprises an encoder (1a, 1b, 1c), a magnetically sensitive converter (9, 13) and a signal conditioning stage (6a,6b) electrically connected thereto. The transformer comprises at least two sensorially active functional groups contemporaneously using sensorially active groups or sub-groups (W1, W2) which are locally offset in relation to each other by a local phase F in order to scan the moving scale and the functional groups comprise means enabling at least two independent partial signals $S1 = V * \sin(O t)$ and $S2 = -V * \sin(O t + F)$ to be produced.

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