

Title (en)

Method and device for correcting aiming errors between apparatuses

Title (de)

Verfahren und Vorrichtung zur Korrektur von Ausrichtfehlern zwischen Geräten

Title (fr)

Procédé et dispositif pour corriger des erreurs de pointage entre appareils

Publication

EP 1152206 B1 20050126 (DE)

Application

EP 00128755 A 20001230

Priority

CH 8182000 A 20000426

Abstract (en)

[origin: EP1152206A1] The method involves aligning a sensor device and a target measurement sensor in the actuator with the measurement target, determining the deviation between the positions of the target measurement sensor's sight line and of the measurement target detected by the target measurement sensor and recursively corrected the error vector using the least squares method and the existing alignment error vector as a controller input signal. The method involves correcting an alignment error vector. The sensor device is aligned with a measurement target (Ki), a target measurement sensor in the actuator is aligned with the measurement target, a deviation value (Di) between the position of the target measurement sensor's sight line and the position of the measurement target detected by the target measurement sensor is determined, an existing alignment error vector is used as a controller input signal and the error vector is recursively corrected on the basis of the deviation using the method of least squares. Independent claims are also included for the following: an arrangement correcting an alignment error between a sensor device and an actuator controlled by the sensor device via a servo controller.

IPC 1-7

F41G 3/32

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

KR100928754B1; KR100917932B1; EP1314949A1; AU2002301625B2; EP1314950A1; AU2002301626B2; SG125076A1; US6739233B2; US6805036B2

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