

Title (en)  
CALIBRATION OR ADJUSTMENT OF A MAGNETOMETER

Title (de)  
KALIBRIERUNG ODER JUSTIERUNG EINES MAGNETOMETERS

Title (fr)  
CALIBRATION OU REGLAGE DE MAGNETOMETRE

Publication  
**EP 3850304 A1 20210721 (FR)**

Application  
**EP 19759395 A 20190829**

Priority  
• EP 18193525 A 20180910  
• EP 2019073111 W 20190829

Abstract (en)  
[origin: WO2020052988A1] One aspect of the invention relates to a method for correcting magnetometric measurements (10) taken by a magnetometer mounted on a movable support. The movable support carries one or more motion and/or position sensors mounted in a fixed relationship with respect to the magnetometer. The method comprises: obtaining magnetometric measurements (12) and motion and/or position measurements (14, 16) taken simultaneously by the magnetometers and the motion and/or position sensors respectively during a time interval; inferring, by a processing unit, corrected magnetometric measurements (28), based on the magnetometric measurements (12) and motion and/or position measurements (14, 16) taken simultaneously during the time interval and in which method the processing unit (36) comprises one or more microprocessors and is capable of inferring the corrected magnetometric measurements (28) by means of an artificial intelligence algorithm (24), this algorithm being trained by means of training data to find a correction for the magnetometric measurements depending on the history of the magnetometric and motion and/or position measurements recorded during the time interval.

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