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Åkerblom

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(54) **METHOD AND A SENSOR DEVICE FOR MEASURING THE DISTANCE BETWEEN A STATOR AND AN OPPOSING ROTOR**

(58) **Field of Classification Search** 324/207.11, 324/207.13, 207.15-207.17, 207.22, 207.24, 324/207.26; 241/28, 30, 37, 259.1
See application file for complete search history.

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 252 days.

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(57) **ABSTRACT**

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A sensor device for measuring distance between a stator and a rotor in a machine is of the magnetic type and is intended to be mounted in the stator in order to interact with an opposing surface on the rotor. A sensor body (10) can be moved axially in a housing (11) mounted in the stator by means of an operating mechanism (13) and has a stop (16) at a predetermined distance (e) from its end surface designed to interact with a corresponding stop (17) inside the housing. This distance (e) exceeds the distance (d) between the stop (17) in the housing and the end of the sensor body (10) by a predetermined distance (c) when the sensor body is in its normal measuring position. These stops (16, 17) make possible a particularly accurate calibration of the sensor device.

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(51) **Int. Cl.**

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B02C 23/00 (2006.01)

(52) **U.S. Cl.** 324/207.13; 324/207.26; 241/37

11 Claims, 1 Drawing Sheet

