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(71) Applicant: **Daprox AB**
127 23 Skärholmen (SE)

(72) Inventor: **Åkerblom, Bengt**
143 40, VÅRBY (SE)

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(74) Representative: **Winblad, Hans Peter et al**
Albihns Stockholm AB,
Box 5581
114 85 Stockholm (SE)

(54) **Sensor alignment device**

(57) The invention relates to alignment of a sensor (2) mounted in a sensor mount (12). A sensor body (4) that is suspended in a housing (6) has a first part with a sensor head (8) and a second part that is in the form of a core (10) and is surrounded by a coil (14). The coil (14) is activated by an electrical current so that electromagnetic fields (18) are generated and reading devices (16) are arranged around the core (10) for measuring the field intensity H of the electromagnetic fields (18) that are generated. A control unit (22) is arranged to evaluate meas-

urement values for the field intensity H and to generate signals (24) that are representative of the position of the core (10) in relation to the housing (6), and in that a memory (20) is arranged to store the signals (24) as reference values H. Changes of position of the sensor body (4) in a lateral direction are compensated for in relation to the sensor mount (12), so that a centred position at an unchanged distance $S_{desired,x,y,z}$ can be maintained by the sensor head (8) in relation to a given area (17) of an object to be measured (11).

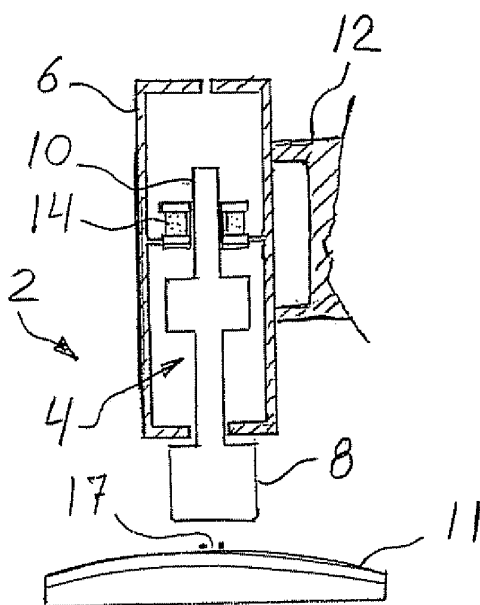


Fig. 1