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Akerblom

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(54) **MEASURING DEVICE IN WHICH A MEASURING HEAD IS MOVABLY SUPPORTED**

(76) Inventor: **Bengt Akerblom**, Vårby Allé 23, S-143 40 Vårby (SE)

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(58) **Field of Search** **73/37.5, 105, 866.5**

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Primary Examiner—Hezron Williams

Assistant Examiner—David J. Wiggins

(74) *Attorney, Agent, or Firm*—Young & Thompson

(57) **ABSTRACT**

A measuring device (1) has a measuring housing (5) in which a measuring head (6) is movably supported, the measuring housing having at least one connection (13) for the supply of pressurized air for supporting by air the measuring head (6) in the measuring housing (5). The measuring head is designed to let out air and to generate an air cushion towards a measuring object (3). On the measuring head (6) there is provided at least one guide element (20) that is extending axially and protrudes into a chamber (12) in the measuring housing (5), the guide element gliding in and being supported by air in a channel (21) in a guide part (15), which forms an end wall to the chamber (12). Also a shaft (16) included in the measuring head extends through and is supported by air in the guide part (15).

8 Claims, 2 Drawing Sheets

