Claims

1. Device having a scanning unit (2) and a mounting aid (3, 3.1, 3.3) for adjusting the scanning unit (2),
characterized in that
the mounting aid (3, 3.1, 3.3) is designed to secure the scanning unit (2) to the mounting aid (3, 3.1, 3.3) in such a way that the scanning unit (2) can be pivoted about a rotational axis (D) of a reference element (4, 4.1) by means of the mounting aid (3, 3.1, 3.3) supporting said scanning unit (2), wherein the mounting aid (3, 3.1, 3.3) forms a rotationally fixed form fit with the scanning unit (2) and wherein the mounting aid (3, 3.1, 3.3) comprises means (31, 32; 31.1, 32.1, 32.2) which in the process force the scanning unit (2) against the reference element (4, 4.1), and in that the mounting aid (3, 3.1, 3.3) is designed so that it can be removed from the scanning unit (2) after adjustment has taken place.

2. Device according to Claim 1, wherein the scanning unit (2) is designed to form a form fit with the reference element (4, 4.1), which form fit locks the scanning unit (2) relative to the reference element (4, 4.1) in directions transverse with respect to the rotational axis (D), but permits rotational movements about the rotational axis (D).

3. Device according to Claim 2, wherein, in order to form the form fit, a recess (22) is provided on an outer wall (21) of the scanning unit (2), against which the reference element (4, 4.1) can be brought to bear.

4. Device according to Claim 3, wherein the recess (22) is a V-shaped groove.

5. Device according to one of the preceding claims, wherein the mounting aid (3, 3.1, 3.3) has at least two arms (31, 32; 31.1, 32.1, 32.2) which lie opposite one another and which engage around the scanning unit (2) in a clamping fashion on at least two opposite sides, wherein at least one of these arms (31; 31.1, 31.2) is embodied in an elastic fashion in order to clamp the scanning unit (2) to the reference element (4, 4.1).

6. Device according to one of the preceding claims, wherein the mounting aid (3, 3.1, 3.3) is designed to form a form fit with the reference element (4, 4.1), which form

fit locks the mounting aid (3, 3.1, 3.3) relative to the reference element (4, 4.1) in directions transverse with respect to the rotational axis (D), but permits rotational movements of the mounting aid (3, 3.1, 3.3) about the rotational axis (D).

7. Device according to one of the preceding claims, wherein the mounting aid (3, 3.1, 3.3) has at least one opening (34) into which a tool (6) can be plugged in order to thereby pivot the mounting aid (3, 3.1, 3.3) about the rotational axis (D).

8. Device according to one of the preceding claims, wherein a handle (9) is integrally formed onto the mounting aid (3.1) in order to pivot the mounting aid (3.1) about the rotational axis (D).

9. Position-measuring device having a scale component (1, 1.3) and a device according to one of the preceding claims.

10. Method for mounting a scanning unit (2) of a position-measuring device on an object (5) having the following method steps:
    - making available a reference element (4, 4.1) with a rotational axis (D);
    - connecting the scanning unit (2) to a mounting aid (3, 3.1, 3.3) in such a way that the mounting aid (3, 3.1, 3.3) forces the scanning unit (2) against the reference element (4, 4.1), wherein the mounting aid (3, 3.1, 3.3) forms a rotationally fixed form fit with the scanning unit (2);
    - adjusting the scanning unit (2) by pivoting the mounting aid (3, 3.1, 3.3) which supports the scanning unit (2) about the rotational axis (D) of the reference element (4, 4.1);
    - attaching the scanning unit (2) in a positionally fixed fashion to the object (5) in the adjusted rotational position; and
    - removing the mounting aid (3, 3.1, 3.3) from the scanning unit (2).

11. Method for mounting a scanning unit (2) according to Claim 10, wherein the reference element (4) is made available by fastening it to the object (5).

12. Method for mounting a scanning unit (2) according to Claim 10, wherein the reference element (4.1) is made available by fastening it to an object (7) on which the scale component (1) is arranged, said scale component (1) being scanned by the scanning unit (2) during the position measurement.