Claims

1. Controlled or controllable mechanism (1) for positioning two or several tools (14.15, 45-47), for example in the form of an implement or a measuring instrument, on a wall (4,39) or surface, which mechanism (1) comprises at least the following elements:
- a first body (2) comprising a support section (3) with which the mechanism (1) can support and/or drive on a surface or wall (4,39) ;
- at least two tools (14, 15, 45-47), which each have a machining surface (18) or a measuring surface (22), which are movably arranged relative to the first body (2) and the support section (3); and,
- driving means (44) for moving the tools (14, 15) relative to the support section (3) and the first body (2);
characterized in that the at least two tools (14, 15, 45-47) are movably arranged relative to the first body (2) and the support section (3)in such a way that a movement of the tools (14, 15, 45-47) relative to the support section (3), allows a tangent plane (D-D”-D’, E-E”-E’, F-F’-F”) on the relevant machining surface (18) or the relevant measuring surface (22), hereafter referred to as the extended operating surface (49) of said tool (14, 15, 45-47), to be brought adjoiningly against the wall (4, 39) or surface against which the mechanism (1) is supported;
the mechanism (1) further comprising:
control means for controlling the driving means (44) and the tools (14, 15, 45-47), the control means being

configured to control the driving means (44)such that, when the mechanism (1) is supported with the support section (3) in a fixed position on the wall or surface (4), the tools (14, 15, 45-47) of the mechanism (1) are brought alternately with the aforementioned tangent plane (D-D”-D’, E-E”-E’, F-F’-F”) on their relevant machining surface (18) or their relevant measuring surface (22), adjoiningly against the wall (4, 39) or surface against which the mechanism (1) is supported, such that the relevant tools (14, 15, 45-47) are alternately centred on a same surface section (19) of the wall or surface (4) which is located at a fixed distance (U) from the support section (3) and such that the tools (14, 15, 45-47) operate alternately on said surface section (19).

2. Mechanism (1) according to claim 1, characterised in that the tools (14, 15, 45-47) are movably arranged relative to the first body (2) using an assembly of movable elements (48) which has at least two degrees of freedom and whereby the driving means (44) have at least two degrees of freedom for driving the movable elements (48).

3. Mechanism (1) according to claim 1 or 2, characterised in that the support section (3) of the first body (2) takes on one of the following forms:

a) the support section (3) comprises at least one support wheel (3) which is rotatably mounted around a central shaft (AA’) in the first body (2);

b) the support section (3) comprises a pair (70) of support wheels (3) which are rotatably mounted around a

central shaft (AA’) in the first body (2);

c) the support section (3) comprises a first pair (70) of support wheels (3) and an additional support wheel (76);

d) the support section (3) comprises two pairs (70,71) of support wheels (3) which are rotatably mounted at a distance from each other on the first body (2);

e) the support section (3) is formed by a sole or foot which is fixedly or movably mounted on the first body (2); or,

f) the support section (3) is formed by a section with a support or support point.

4. Mechanism (1) according to one or more of the previous claims, characterised in that the mechanism (1) comprises a second body (8) which is movable relative to the first body (2) and whereby the driving means (44) comprise first driving means (28) for moving the second body (8) relative to the first body (2).

5. Mechanism (1) according to claim 4, characterised in that the second body (8) of the mechanism (1) is rotatably attached around a shaft (AA’, σσ’) in the first body (2).

6. Mechanism (1) according to claims 3 a) and 4, characterised in that the second body (8) of the mechanism (1) is rotatable around the central shaft (AA’) of the at least one support wheel (3).

7. Mechanism (1) according to claim 4, characterised in that the second body (8) of the mechanism (1) is movable

up and down or reciprocatingly according to a linear direction (λλ') in the first body (2) of the mechanism (1).

8. Mechanism (1) according to one or more of the claims 4 to 7, characterised in that all tools (14,15, 45-47) of the mechanism (1) are mounted movably reciprocatingly or up and down in the second body (8) of the mechanism (1) and whereby said tools (14, 15, 45-47) are directly moved by second driving means (29).

9. Mechanism (1) according to one or more of the previous claims 4 to 7, characterised in that the mechanism (4) comprises a third body (10) which is movable relative to the first body (2) and whereby the driving means (44) comprise a second driving means (29) for moving the third body (10) relative to the first body (2).

10. Mechanism (1) according to claim 9, characterised in that at least one tool (14,15, 45-47) is fixedly mounted on the third body (10).

11. Mechanism (1) according to claim 10, characterised in that the third body (10) is mounted movably on the second body (8), such that the relevant at least one tool (14, 15, 45-47) can be oriented or positioned relative to the first body (2) by a combination of the movements of the second body (8) and the third body (10) and whereby the second driving means (29) move the third body (10) relative to the second body (8) and thus indirectly also relative to the first body (2).

12. Mechanism (1) according to claim 10 or 11, characterised in that all tools (14, 15, 45-47) of the mechanism (1) are fixedly mounted on the third body (10), such that each relevant tool (14, 15, 45-47) can be oriented or positioned relative to the first body (2) by a combination of the movements of the second body (8) and the third body (10) and whereby the second driving means (29) move the third body (10) relative to the second body (8) and thus indirectly also relative to the first body (2).

13. Mechanism (1) according to one or more of the claims 9 to 12, characterised in that the third body (10) is rotatably attached around a rotation shaft (BB’,QQ’) to the second body (8).

14. Mechanism (1) according to one or more of the claims 9 to 12, characterised in that the third body (10) is movably attached up and down or reciprocatingly to the second body (8).

15. Mechanism (1) according to one or more of the claims 9 to 14, characterised in that all tools (14, 15, 45-47) of the mechanism (1) are mounted movably reciprocatingly or up and down in the third body (10) of the mechanism (1).