Claims

1. An aiming system (7) for a firearm (5) comprising:

- a clinometer measuring at least an angle of elevation of the firearm;
- a computer comprising a memory of an initial angle of elevation (4);
- a ballistics chart included in the computer, which matches a firing distance (3) with an angle of elevation (α) relative to the initial angle of elevation (4);
- a first display device (10, 11, 21, 22) which, when in use, displays for the user the firing distance as a function of the initial angle of elevation (4) and an instantaneous angle of elevation (13);
- a semitransparent surface (34, 53, 62) superposing over an image of a target at infinity of a screen (30) displaying the target distance (10, 11, 21, 22).

2. The aiming system as claimed in claim 1, comprising a second display device indicating a vertical bore axis (20).

3. The aiming system as claimed in claim 1, further comprising movable designation means (8), the computer being arranged to move, when in use, said designation means along a vertical axis so as to keep said designation means at the initial angle of elevation (4).

4. The aiming system as claimed in claim 3, wherein said movable designation means are selected from the group consisting of a red dot, a reticle and a pointer.

5. The aiming system as claimed in one of the preceding claims, comprising a low-pass frequency filter between the clinometer and the computer, so as to stabilize inclination measurement.

6. The aiming system as claimed in any one of claims 3 to 5, comprising means for laterally moving the display of the vertical axis of the firearm or the movable designation means, so as to apply an azimuthal correction for Magnus effect and/or for cant angle.

7. The aiming system as claimed in any one of claims 1 to 5, comprising a second clinometer that is connected to the computer, measuring cant angle of the firearm, the display device indicating to the user when the cant angle compensates for Magnus effect for the displayed target distance.

8. The aiming system as claimed in claim 1, comprising optical magnification means, and tracking means that are arranged to keep, when in use, an area of magnification at the initial angle of elevation.

9. An aiming method for a firearm using the system as claimed in any one of the preceding claims, comprising the following steps:

a. determining a distance from a target;

b. marking an angle of elevation of the target;

c. increasing the angle of elevation of the firearm until the distance from the target is displayed, adequate aim being achieved when the displayed distance corresponds to the determined target distance.