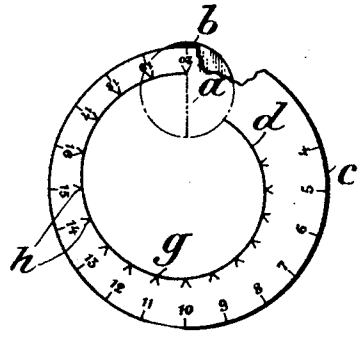
33-246. OR 1,107,163 SR

O. GRAUHEDING.

TELESCOPE GUN SIGHT.

APPLICATION FILED AUG. 8, 1912.

1,107,163. Patented Aug. 11, 1914.



WITNESSES

E. J. Marshall

H. P. Roberts

INVENTOR

Oscar Grauheding

by [illegible] his attorney

UNITED STATES PATENT OFFICE.

OSCAR GRAUHEDING, OF DUSSELDORF, GERMANY.

TELESCOPE GUN-SIGHT.

1,107,163. Specification of Letters Patent. Patented Aug. 11, 1914.

Application filed August 8, 1912. Serial No. 714,112.

To all whom it may concern:

Be it known that I, OSCAR GRAUHEDING, engineer, a subject of the German Emperor, residing at 27 Fischerstrasse, Dusseldorf, Germany, have invented certain new and useful Improvements in Telescope Gun-Sights; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to that class of gun sights wherein the sight point is determined by the intersection of a vertical line with a curved line, and comprises, as to structure, a fixed plate and an adjustable plate, the vertical line being on one plate and the curved line on the other plate, the adjustable plate being capable of being turned on an axis eccentric to the optic axis of the other plate. Such a sight device is shown in Letters Patent No. 1,004,416, issued September 26, 1911. According to my present invention the curve is marked in such a manner that on looking through the telescope, if the width of the target is known, the range is ascertained, and conversely if the range is known, the width of the target can be ascertained. For this purpose the eccentric plate on which the curve is marked is provided with target markings, which consist of two points, which are at a variable distance apart. This variable distance corresponds to a constant width of target for all ranges.

The accompanying drawing represents diagrammatically a construction according to the invention.

The curve *d* the intersection of which with the vertical line *a* on the fixed plate *b* forms the point of sight, is drawn on the disk *c*, which turns about an axis eccentric to the optic axis of the telescope. On the said curve are separate target markings *g*. In the example shown these target markings are V-shaped and the ends *h* of the divergent sides of the V are at different distances apart, and these distances correspond to a constant width of target for all ranges. In the illustration this constant width of target is 20 meters.

When the target is seen through the telescope as described in my before noted patent, the variable distance apart of the two limbs of the target marks determines the width of the target for a known range; these target widths can usually be expressed with sufficient accuracy as a multiple of the constant target width. Conversely when the width of the target is known, the range can be determined by the distance between the limbs of the marks.

I claim as my invention:

1. A telescope gun sight wherein the sighting point is determined by the intersection of a vertical line with a curved line, comprising a fixed plate and an adjustable plate, the vertical line being on one plate and the curved line on the other, said latter plate being provided with target markings, each marking consisting of two spaced-apart points, the distance between such points varying for each marking, and corresponding to a constant width of target for all ranges.

2. A telescope gun sight wherein the sighting point is determined by the intersection of a vertical line with a curved line, comprising a fixed plate and an adjustable plate, the vertical line being on one plate and the curved line on the other, said latter plate being provided with V-shaped target markings, the distance between the ends of the limbs of the markings varying for each marking, and corresponding to a constant width of target for all ranges.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

OSCAR GRAUHEDING. [L. S.]

Witnesses:
HELEN NUFER,
ALBERT NUFER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."