

(No Model.)

J. A. TRAUT.

SIGHTING ATTACHMENT FOR SPIRIT LEVELS.

No. 405,624.

Patented June 18, 1889.

Fig. 1.

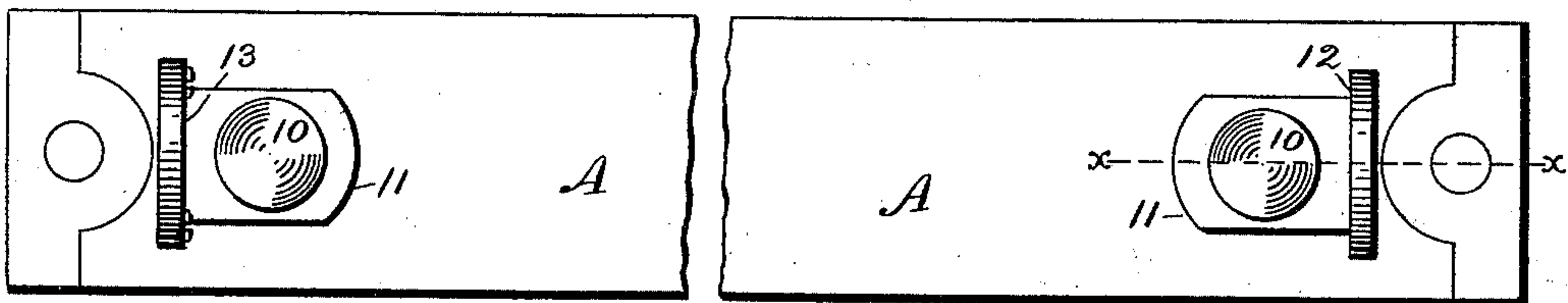


Fig. 2.

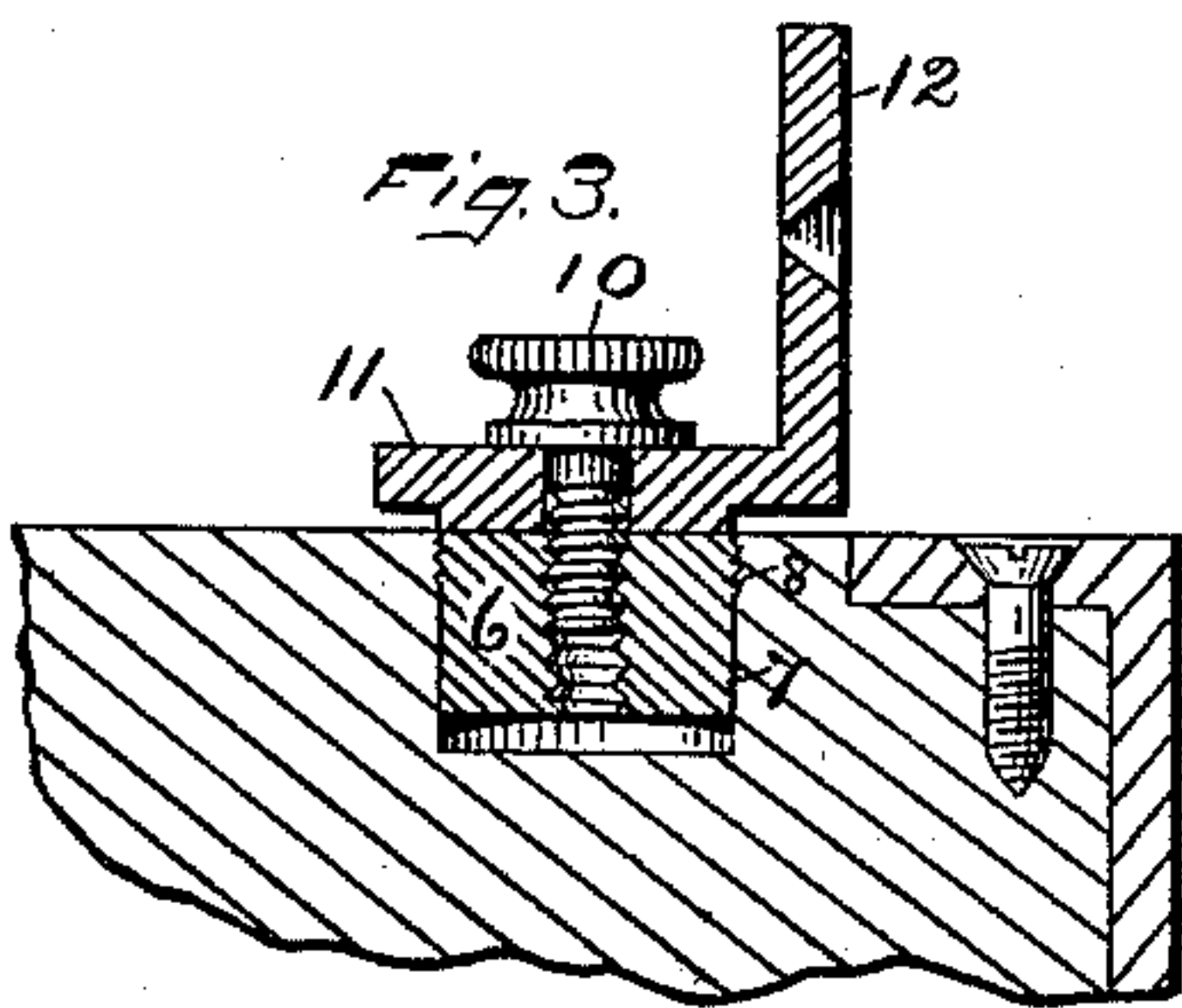
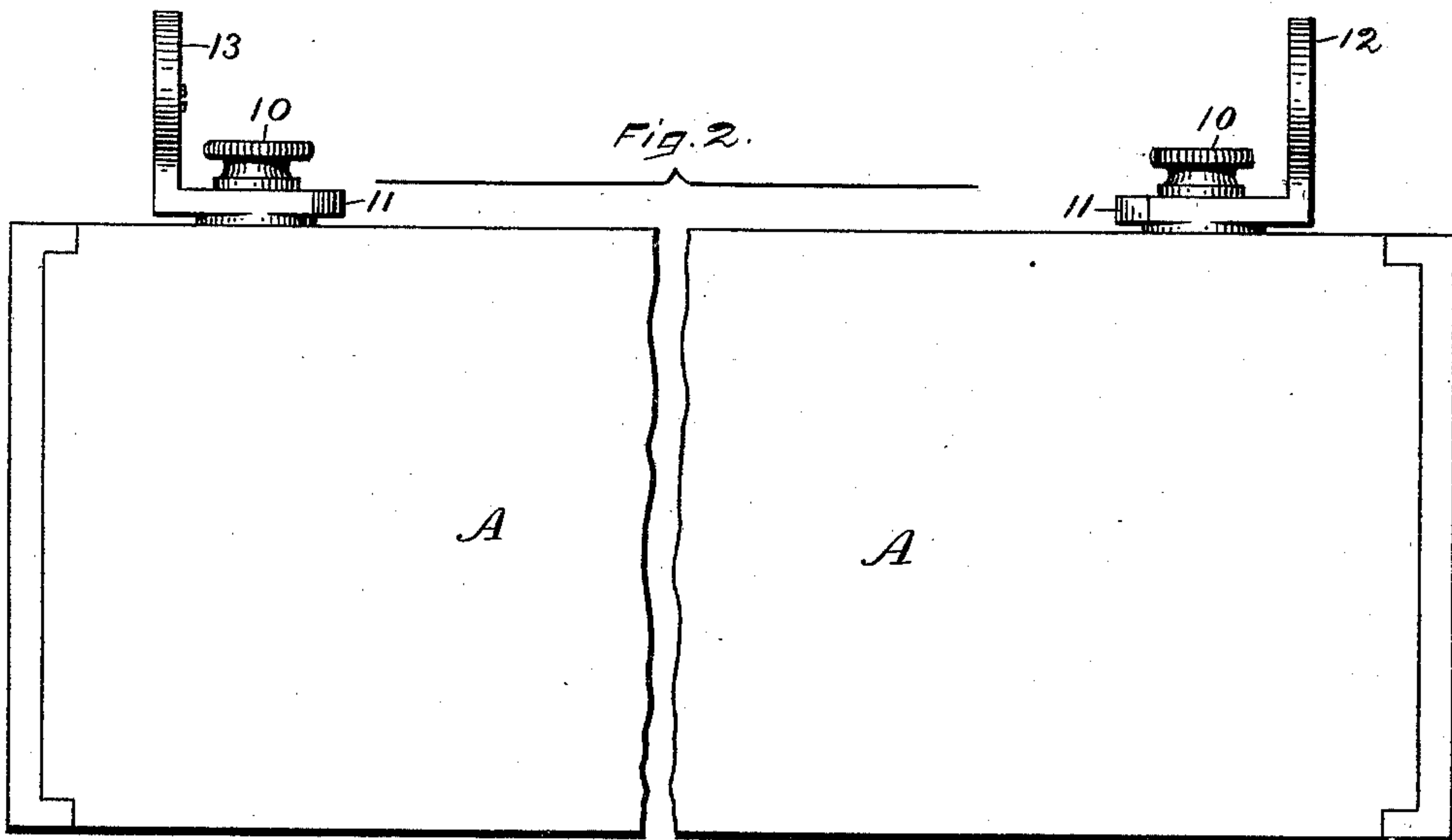


Fig. 4.

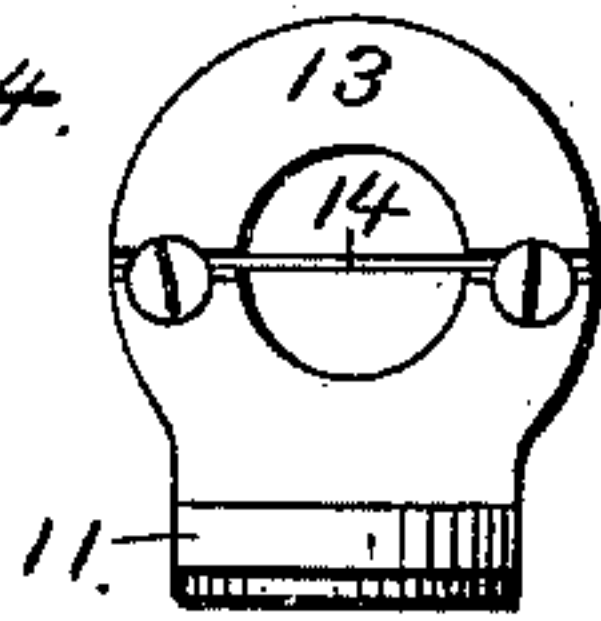


Fig. 5.



WITNESSES.

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UNITED STATES PATENT OFFICE.

JUSTUS A. TRAUT, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO THE
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SIGHTING ATTACHMENT FOR SPIRIT-LEVELS.

SPECIFICATION forming part of Letters Patent No. 405,624, dated June 18, 1889.

Application filed January 22, 1889. Serial No. 297,203. (No model.)

To all whom it may concern:

Be it known that I, JUSTUS A. TRAUT, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Sighting-Levels, of which the following is a specification.

My invention relates to improvements in levels or analogous parallel edges, bars provided with sighting attachments; and the objects of my invention are to produce a level with adjustable bases for said attachments.

In the accompanying drawings, Figure 1 is a plan view of the two ends of a spirit-level with my attachments applied thereto. Fig. 2 is a side elevation of the same. Fig. 3 is a vertical section of the near sight and that end of the level, the plane of section being on the line xx of Fig. 1, the screws being shown in elevation. Fig. 4 is a front elevation of the farther sight, and Fig. 5 is a side elevation of the base for said sights.

A A designate the respective ends of a level-stock, in the upper edges of which at each end I drill a vertical hole, taking pains that it shall be drilled accurately true and square with the stock.

6 designates a base, the lower portion 7 of which is cylindrical and of a size which will snugly fill said holes in the upper edge of the stock. Above the cylindrical portion of this base there is a threaded portion 8, which projects slightly beyond the cylindrical portion, and the upper end of the base is provided with an ordinary slot or nick 9, for turning said base with a screw-driver. The base is also perforated centrally and threaded to receive the body of the holding-screw 10. This base is placed with its cylindrical portion in the hole in the stock, which hole and cylindrical portion, being specially fitted to each other, will guide the base and cause it to enter the hole in the proper direction, so as to insure that its upper end will be substantially parallel to the upper face of the stock. By turning said base with a screw-driver it may be screwed into the stock to the desired depth. There is one such base in each end of the stock. By the aid of calipers or other measuring devices these bases may be adjusted until their upper faces are both in a plane which is parallel to the base of the stock. I prefer that they should

be sunk a little below said upper face of the stock, or at least left so as not to project above said face when the level is used without the sighting attachments.

The sighting attachments are each provided with a base-plate 11, having a perforation for the passage of the holding-screw 10 into the centrally-threaded hole of the base 6, the under side of said base-plate being made true and square, and, preferably, with a slightly-projecting circular seat, which will fit the upper end of the bases 6, and of a size which will permit said seat to be sunk slightly below the upper face of the level-stock, the perforation for the holding-screw being centrally located with reference to said seat. Each base-plate 11 is provided with an upright and sight, the upright 12 being provided with a small hole for the near sight, and the upright 13 being provided with a hair-line 14, adapted for use as a farther sight. The sights of themselves are of ordinary construction and for well-known uses. These sights may be attached to and detached from the level by means of the holding-screws, which screws are short enough not to interfere with the sights.

The bases 6 may remain permanently in the stock, and they form adjustable bases, by means of which the parallelism of the sights to the base of the level-stock may always be maintained.

I claim as my invention—

1. The combination of a level stock or bar with the bases 6 6, adjustable with reference to a given surface of said stock or bar, the sights adapted to be seated upon the face of said bases, and devices for attaching said sights to and detaching them from said bases, substantially as described, and for the purpose specified.

2. The combination of a level stock or bar, the non-projecting bases 6 6, adjustable with reference to a given surface of said bar or stock and provided with a threaded hole, the holding-screws 10, and the sighting attachments having a projecting seat upon the under side of their base-plates for resting upon said bases 6 6, substantially as described, and for the purpose specified.

JUSTUS A. TRAUT.

Witnesses:

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