

No. 835,986.

PATENTED NOV. 13, 1906.

L. C. SHEFLOTT.

LEVEL.

APPLICATION FILED MAR. 24, 1906.

Fig. 1.

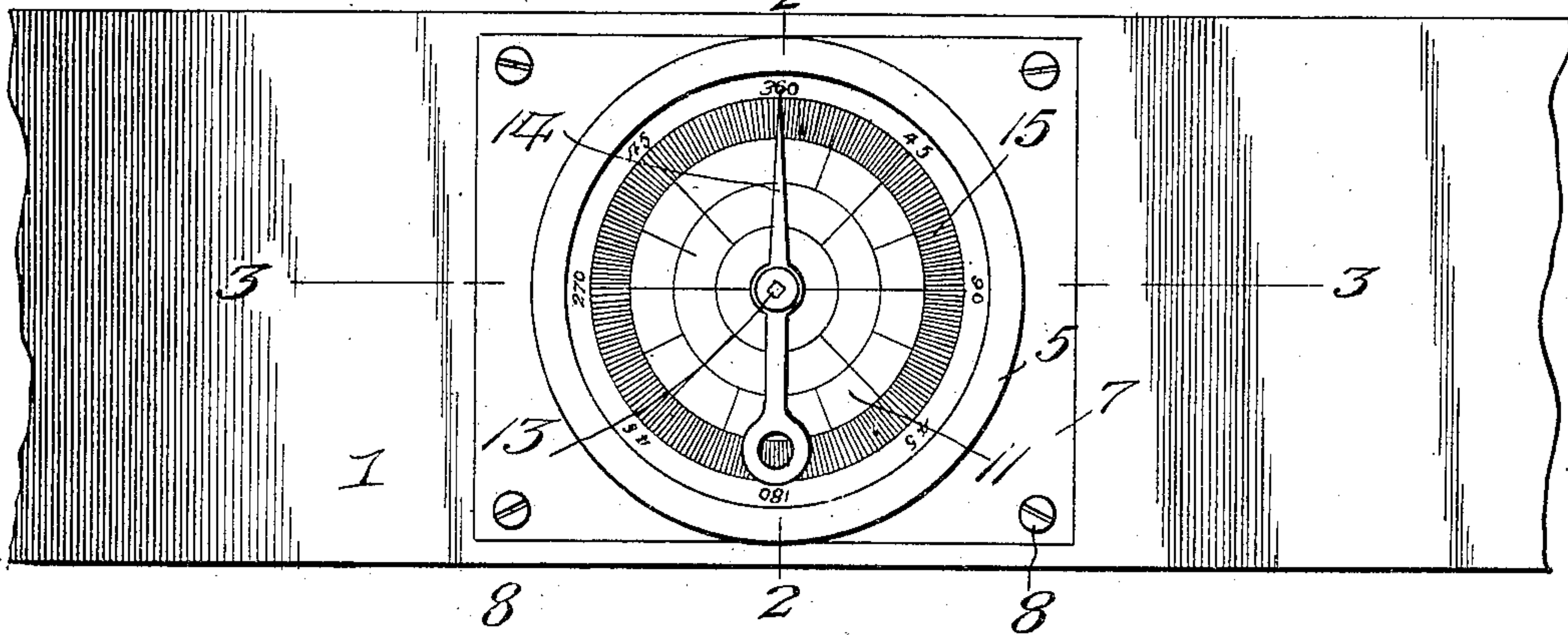


Fig. 2.

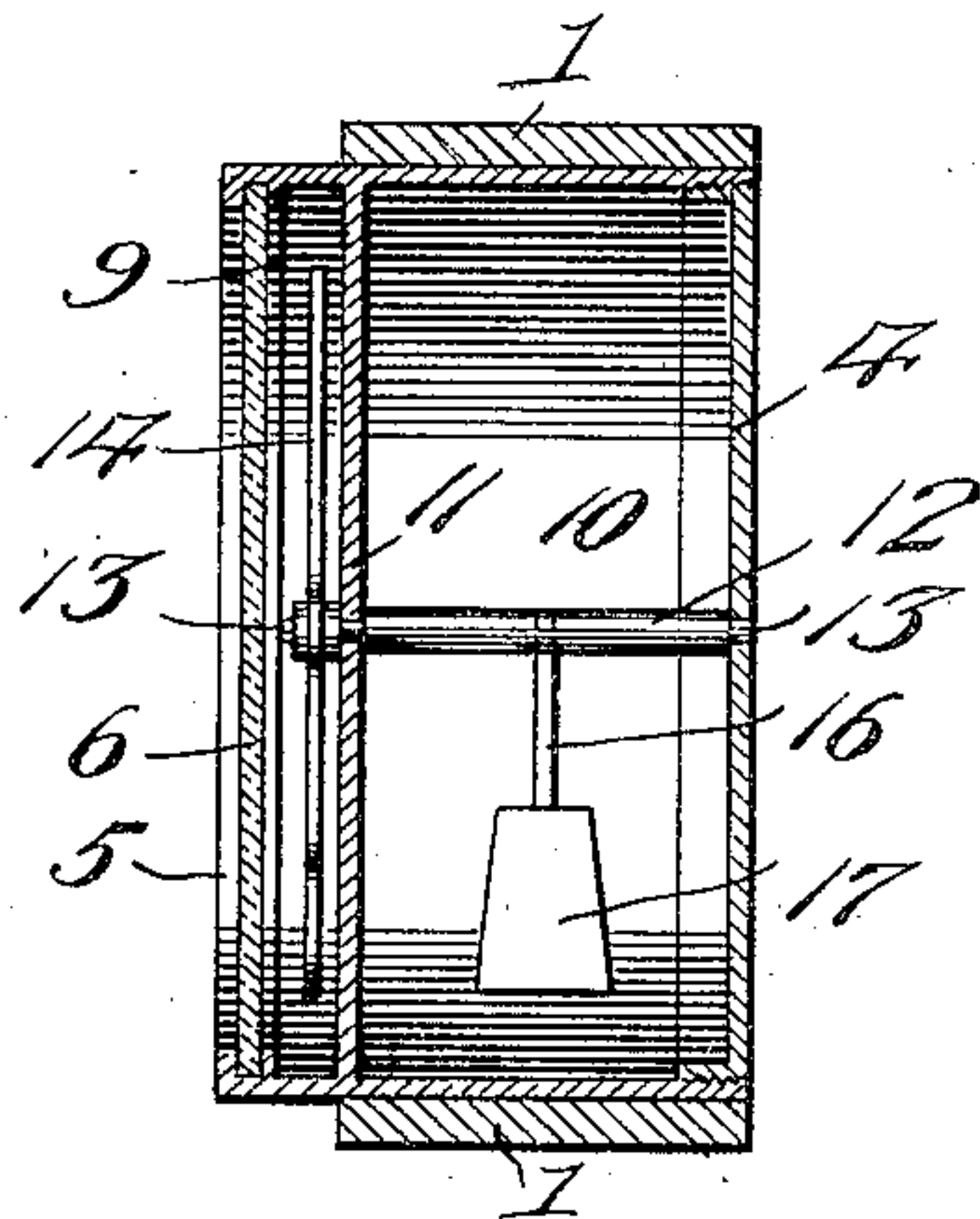
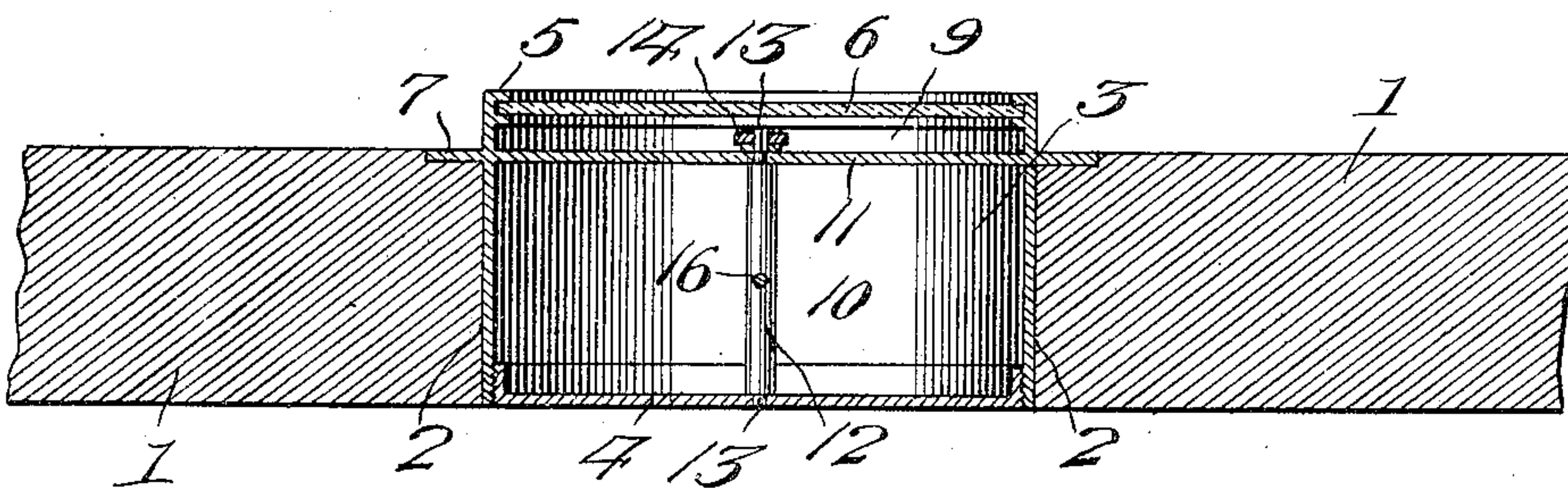


Fig. 3.



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Witnesses

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LEVEL.

No. 835,986.

Specification of Letters Patent.

Patented Nov. 13, 1906.

Application filed March 24, 1906. Serial No. 307,889.

To all whom it may concern:

Be it known that I, LEONARD C. SHEFLOTT, a citizen of the United States, residing at New London, in the county of New London and State of Connecticut, have invented certain new and useful Improvements in Levels, of which the following is a specification.

This invention relates to levels of the type employed for truing walls, foundations, or the like, and has for its objects to produce a comparatively simple inexpensive device of this character in which the plumb member or pointer will be highly sensitive in its movements, one which will be free from liability of becoming disordered or defective and one whereby various angles from the vertical or the horizontal may be quickly and accurately determined.

With these and other objects in view the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a side elevation of a portion of a level embodying the invention. Fig. 2 is a transverse section taken on the line 2 2 of Fig. 1. Fig. 3 is a longitudinal section taken on the line 3 3 of Fig. 1.

Referring to the drawings, 1 designates a body or stock having a central transverse opening 2, in which is fitted a casing 3, adapted to project at its forward end beyond the adjacent face of the stock and having its rear end closed by a screw cap or closure 4, there being provided at the forward end of the casing a pair of inner marginal engaging portions or flanges 5, between which is fitted the marginal edge of a glass or other transparent closure 6, it being understood that the flange 5 is formed by suitably bending the end of the casing after positioning the closure, while surrounding the casing at a point suitably remote from its front end is a bearing-flange 7, which in practice is countersunk into the adjacent face of and attached to the stock 1 by fastening members or screws 8 for fixing the casing in place.

The interior of the casing is subdivided into a front compartment 9 and a rear compartment 10 by means of a transverse partition 11, preferably arranged in a line with the flange 7 and forming, in effect, a part or continuation thereof, there being journaled in the casing within the compartment 10 a shaft or arbor 12, provided with reduced bearing portions 13, fitted in suitable bearing-openings,

respectively, in the cap 4 and partition 11, through which latter the adjacent portion 13 of the shaft projects into the compartment 9 and is squared for the reception of a hand or pointer 14, adapted to move over a dial 15, indicated on the front face of the partition 11 and bearing suitable degree-graduations, while fixed to the shaft 12 is a radially-projecting arm 16, bearing a weight 17, adapted to hang in vertical position for holding the pointer 14 in true vertical plumb.

In practice the tool is employed in the usual manner for determining the level or plumb of a wall, and when the stock is positioned on the surface to be trued the hand 14 will if such surface is out of true move under the action of weight 17 for indicating the amount or degree of such unevenness on the dial 15, as will be readily understood.

It will be observed that by the provision of the partition 11 a firm bearing for the shaft 12 is presented, while at the same time the pointer 14 is properly housed and protected within the compartment 9 and that when needful access may be had to the parts of the mechanism housed within the compartment 10 of the casing by removing the cap 4. Further, it will be observed that the cap may, owing to its threaded engagement with the casing, be adjusted for compensating for wear on the shaft 12 and that, owing to the forward end of the casing projecting beyond the adjacent face of the stock, said end of the casing may be readily grasped for removing the same from the opening 2 when circumstances require.

From the foregoing it is apparent that I produce a simple device admirably adapted for the attainment of the ends in view, it being understood that in attaining these ends minor changes in the details herein set forth may be resorted to without departing from the spirit of the invention.

Having thus described my invention, what I claim is—

A device of the class described comprising a stock having a transverse opening, a casing fitted in said opening and adapted to project at its forward end beyond the adjacent face of the stock, a bearing-flange formed on the casing remote from the front end thereof to bear on the stock, a partition in the casing in line with said flange for dividing the casing into a front and a rear compartment, a pair of inner marginal projecting beads formed at the forward end of the casing, a transparent

closure marginally engaged between said
beads, a shaft journaled in the casing and
having a portion thereof extended into the
front compartment, a pointer housed within
5 said compartment and fixed upon said pro-
jecting portion of the shaft, a weighted arm
fixed to the shaft within the rear compart-
ment, and a cap threaded into the rear end of

the casing and provided with a bearing for
the adjacent end of the shaft. 10

In testimony whereof I affix my signature
in presence of two witnesses.

LEONARD C. SHEFLOTT.

Witnesses:

JOHN McKENNA,
JAMES R. MAY.