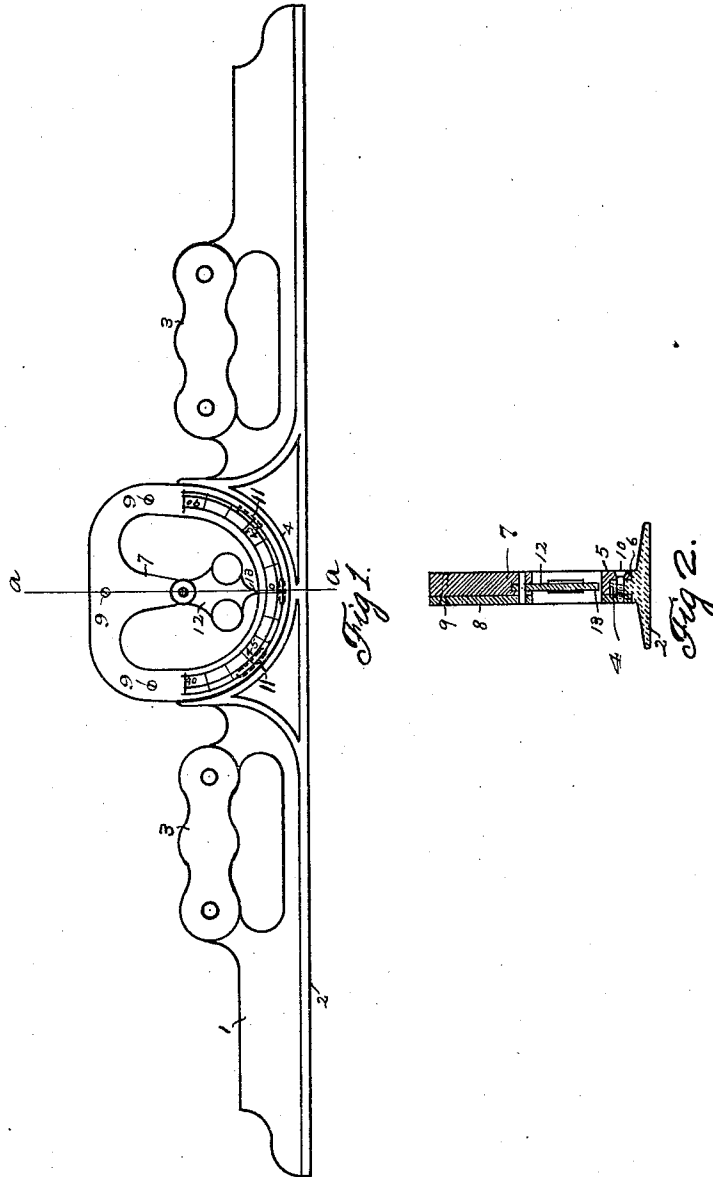


A. NIEDERGANG.
PLUMB LEVEL.
APPLICATION FILED JULY 13, 1912.

1,046,101.

Patented Dec. 3, 1912.



WITNESSES:

May Montgomery
H. R. Leary

INVENTOR
Antoine Niedergang
BY
Hardway Bathey
ATTORNEYS.

UNITED STATES PATENT OFFICE.

ANTOINE NIEDERGANG, OF HOUSTON, TEXAS.

PLUMB-LEVEL.

Specification of Letters Patent.

Patented Dec. 3, 1912.

1,046,101.

Application filed July 13, 1912. Serial No. 709,197.

To all whom it may concern:

Be it known that I, ANTOINE NIEDERGANG, a citizen of the United States, residing at Houston, in the county of Harris and State of Texas, have invented certain new and useful Improvements in Plumb-Levels, of which the following is a specification.

My invention relates to new and useful improvements in plumb levels.

The object of the invention is to provide an article of the character described which may be used for leveling horizontal, or plumbing vertical surfaces and one which is simple and durable and of easy construction.

Another object of the invention is to provide an article of the character described which will be so constructed that the level attachment may be adjusted in, or readily removed from and secured to a new stock or body, when it is so desired.

With the above and other objects in view, the invention has particular relation to certain novel features of construction and arrangement of parts, an example of which is given in this specification and illustrated in the accompanying drawing, wherein:—

Figure 1 is a view in side elevation of a plumb level, constructed in accordance with the present invention. Fig. 2 is a sectional view thereof taken on the line *a—*a** of Fig. 1.

Referring now more particularly to the drawings, the numeral 1 refers to the stock of the device which has a flat base 2 and to which the level attachment, which will be hereinafter described, is secured. This stock is provided with grips 3, 3 at each end by means of which the article may be held in any desired position.

Centrally located, with respect to the stock and integral with the base 2, is an arcuate rim, or seat 4, in which the frame of the level is secured in the manner to be hereinafter set forth. This frame includes a ring 5, substantially circular in shape, the lower portion of which rests upon the rim 4 and which has a flange portion 6, forming a shoulder which rests against the side of the rim 4 and from the upper side of said ring depends a finger 7. Fitting over the front side of this ring is a thin plate 8 which corresponds in all respects to the shape of the ring and which fits closely thereagainst and also against the side of the rim 4 opposite to the flange 6, forming a groove in which the seat 4 rests, and this plate is secured to the

ring by means of set screws 9. The level frame is adjustably secured in position by means of screws 10 which pass through the flange 6 and through the arcuate slots 11 in the rim 4. The level frame may thus be adjusted or turned on its arcuate seat, the screws 10 sliding in the slots 11. The lower segment of the front side of the plate 8 is graduated from 0 to 90 degrees each way from the center thereof. Depending from the free end of the finger 7 is a bob 12 which is pivoted to said finger so as to swing freely. The lower end of this bob terminates in a pointer 13 which traverses the graduated scale and enables the user to determine the angle of inclination of the base 2.

In order to remove the level attachment from the stock, it will only be necessary to withdraw the screws 10 and the attachment may be readily applied to a new stock. This is a feature of importance inasmuch as when the stock has become useless from wear so that the base 2 thereof is no longer true, a new straight edge may readily be provided and another feature of importance resides in the construction whereby the frame may be easily adjusted in the stock, as hereinbefore explained.

What I claim is:

1. A plumb level embodying a stock, an arcuate rim, or seat, having a plurality of transverse slots therethrough carried by said stock, a level attachment embodying a ring which rests upon said arcuate seat, a depending flange carried by said ring and resting against one side of said seat, a graduated plate secured upon said ring and conforming to the shape thereof, whose lower edge rests against the side of said seat opposite said flange and thereby forming a groove in which said seat rests, a plurality of screws extending through said flange and through said transverse slots and adjustably securing the attachment to the stock, a finger carried by said ring and extending inwardly, a bob pivoted to the free end of said finger, the lower end of which terminates in a pointer arranged to traverse the graduated portion of said plate.

2. A plumb level embodying a stock, an arcuate seat carried thereby and having a plurality of arcuate transverse slots, a level attachment embodying a ring which rests upon said seat and carries a depending flange which rests against one side of said

seat, a graduated plate secured upon said
ring and projecting downwardly beyond the
ring and resting against the side of the seat
opposite said flange and forming a groove
5 in which said seat rests, a plurality of screws
which pass through said flange and through
said arcuate slots and secure the level at-
tachment adjustably to said seat, a bob piv-
10 10 ended to said ring at one end and whose other
end terminates in a pointer which traverses

the graduated portion of said plate as the
position of said plumb level is varied.

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

ANTOINE NIEDERGANG.

Witnesses:

E. FRUDEBECK,
MAY MONTGOMERY.

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