

(No Model.)

A. H. PATRICK.  
LEVEL.

No. 585,850.

Patented July 6, 1897.

# Fig. 1.

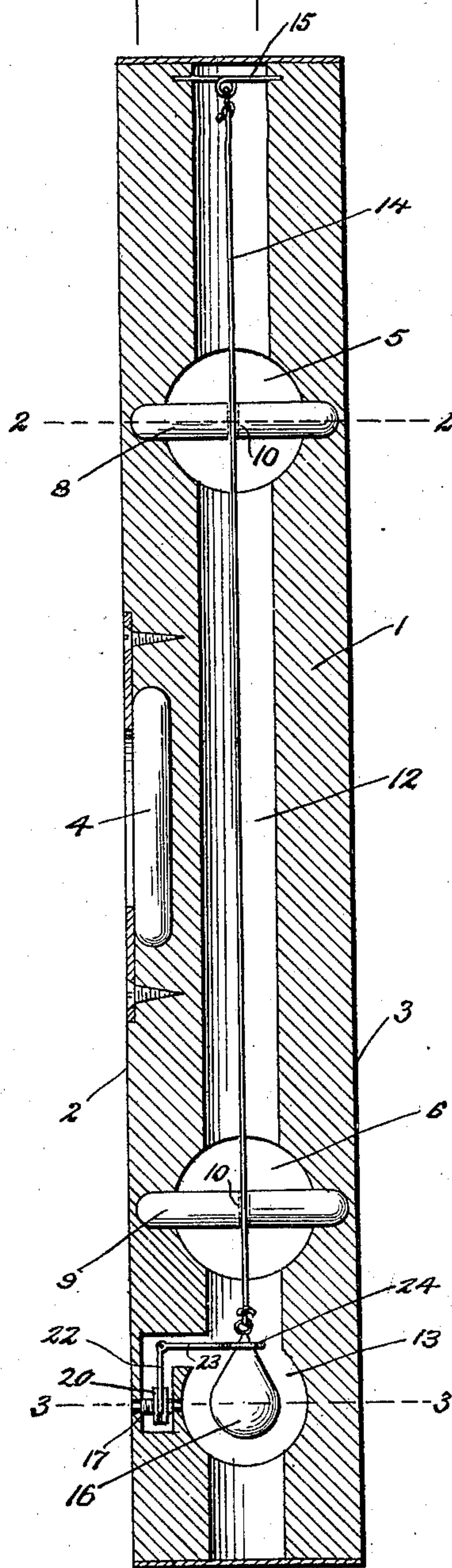


Fig. 2.

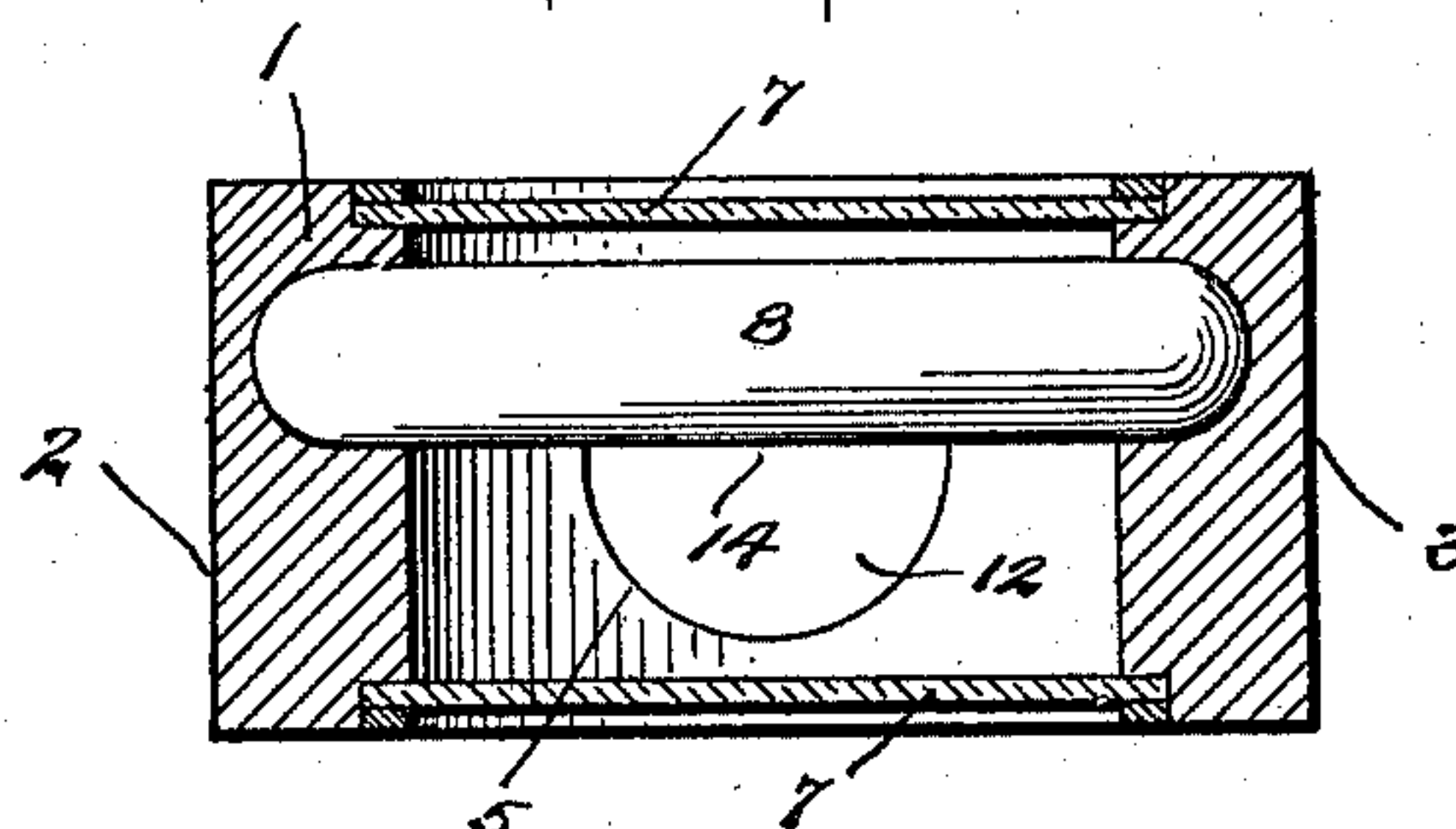


Fig. 3.

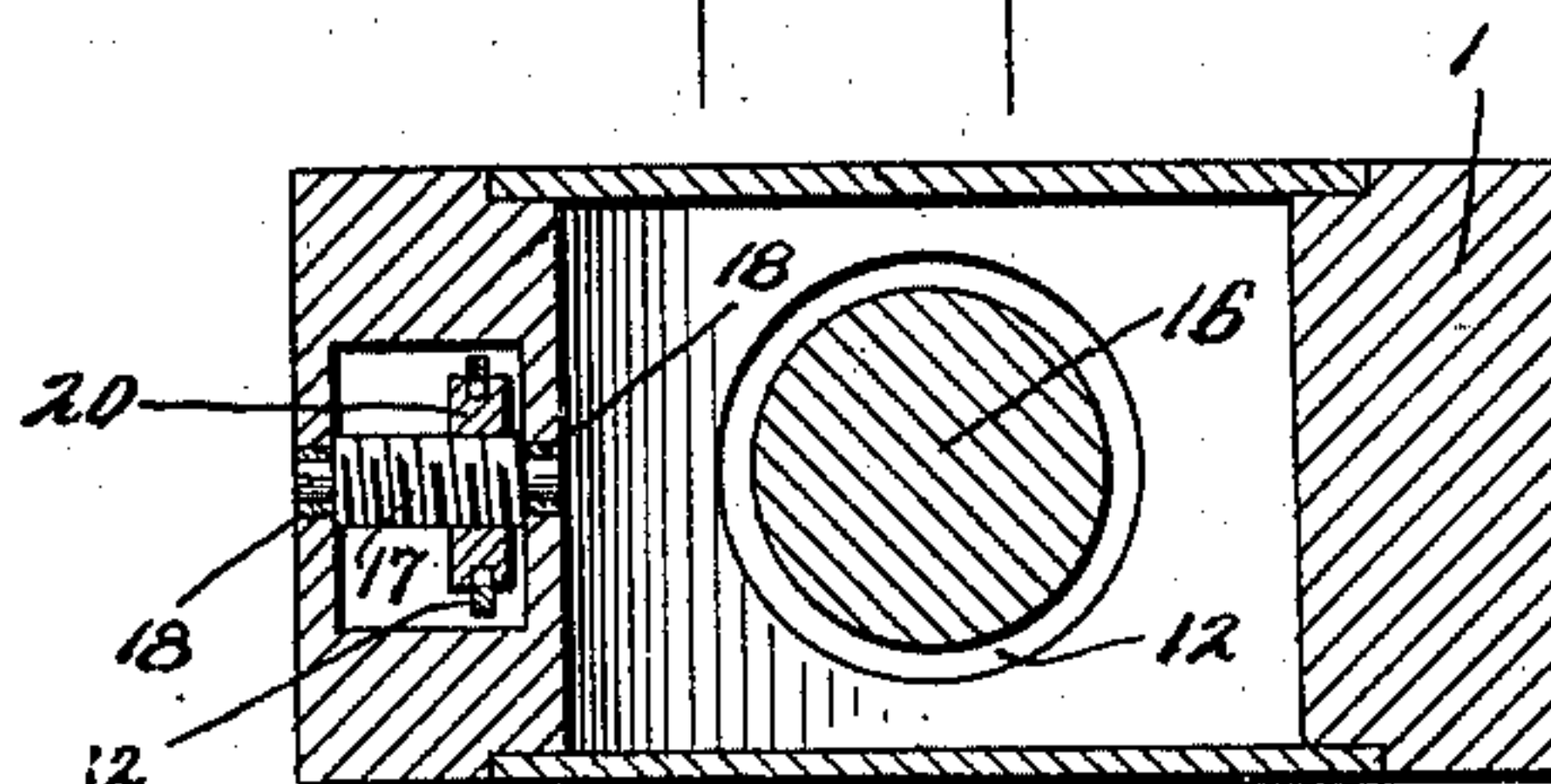
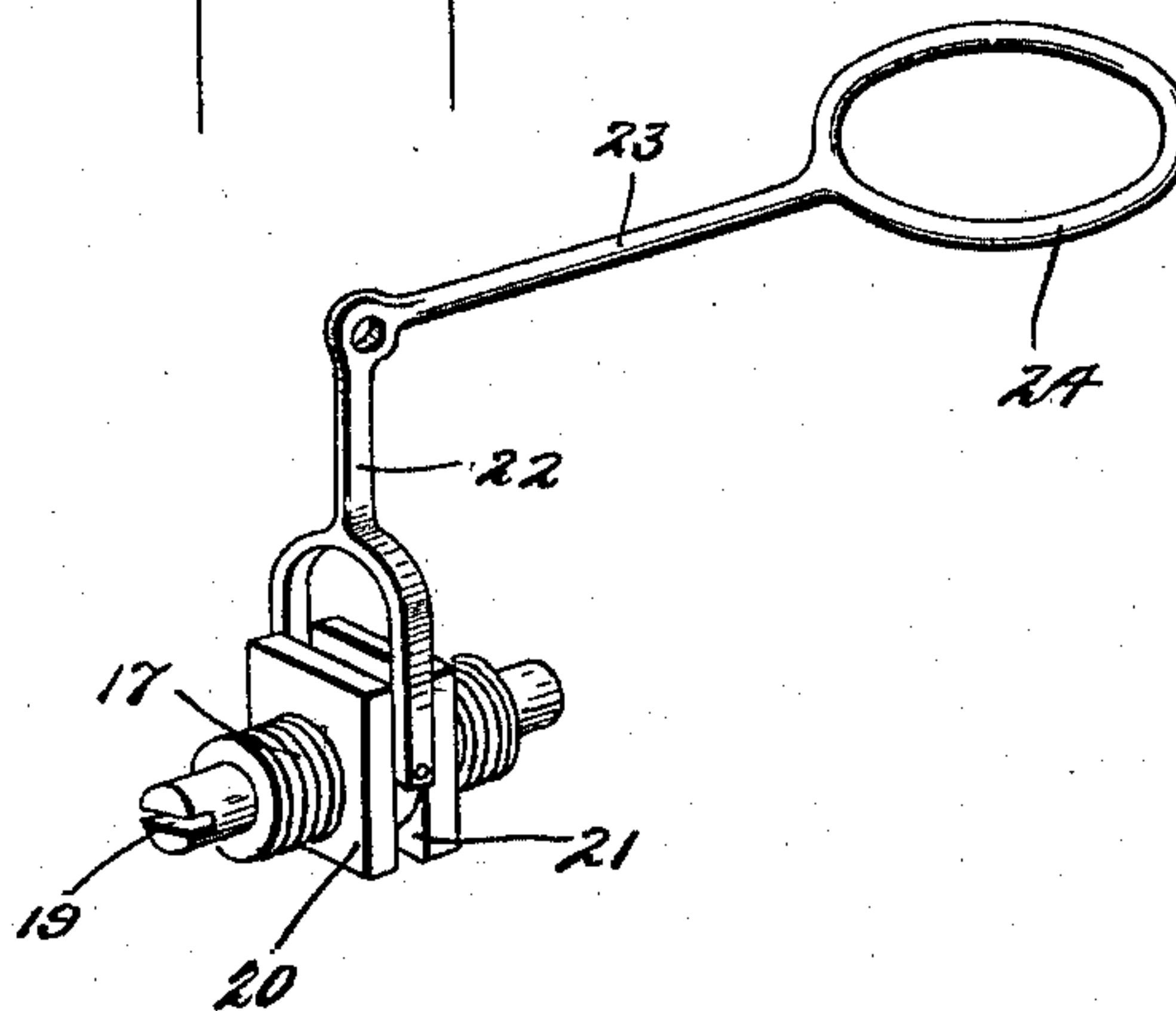


FIG. 4.



Witnesses

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# UNITED STATES PATENT OFFICE.

ANDREW HOWEL PATRICK, OF BOONEVILLE, MISSISSIPPI.

## LEVEL.

SPECIFICATION forming part of Letters Patent No. 585,850, dated July 6, 1897.

Application filed April 29, 1897. Serial No. 634,398. (No model.)

*To all whom it may concern:*

Be it known that I, ANDREW HOWEL PATRICK, a citizen of the United States, residing at Booneville, in the county of Prentiss and State of Mississippi, have invented certain new and useful Improvements in Spirit-Levels; and I do 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.

My invention relates to improvements in carpenters' and brick-masons' levels; and the object is to provide a simple and convenient as well as durable and reliable instrument of this class.

To these ends the novelty consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same reference-characters indicate the same parts of the invention.

Figure 1 is a longitudinal section of my improved combined spirit-level and plumb. Fig. 2 is a transverse section on the line 2 2 of Fig. 1. Fig. 3 is a similar view on the line 3 3 of Fig. 1. Fig. 4 is a detail view of the plumb-bob-locking device.

1 represents the usual rectangular frame, formed with the parallel edges 2 3, the edge 2 being provided with the usual spirit-level tube 4.

5 and 6 represent transverse circular orifices protected by glass disks 7 7, and 8 9 represent spirit-level tubes fixed in said orifices parallel with each other and at an exact right angle to the level-tube 4. The tubes 8 9 are also provided with vertically-alined guide-lines 10 10, and 12 represents a longitudinal orifice extending entirely through the frame, bisecting the transverse orifices 5 6 and also a chamber 13 in the lower end of the frame 1.

14 represents the plumb-line, fixed at its upper end to a bracket 15 in the frame, and it extends through the longitudinal orifice 12, its lower end being provided with the plumb-bob 16, having a free pendulating movement in the chamber 13.

17 represents a threaded shaft mounted on the journals 18 18' in the frame between the chamber 13 and the edge 2, and the outer end is formed with a transverse slot 19 to receive

the blade of a screw-driver for conveniently manipulating it.

20 represents a rectangular nut encompassing said threaded shaft, and its edges are formed with slots 21 21, which engage the lower ends of the parallel arms of a bell-crank lever 22, fulcrumed in the frame, the horizontal arm 23 of said lever terminating in a circular eye 24, which encompasses the plumb-line at its juncture with the bob.

It will thus be seen that by means of the screw the eye 24 can be raised to allow a free movement of the plumb-bob, or by reversing the motion of the screw the eye can be made to engage the plumb-bob and prevent its movement.

Although I have specifically described my invention with regard to the construction and relative arrangement of the several elements, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

A spirit-level comprising the rectangular frame 1, provided with the transverse orifices 5 and 6, the chamber 13, and the longitudinal orifice 12 bisecting the said orifices and chamber, in combination with the parallel spirit-level tubes 8 9 arranged in said orifices at right angles to the level-tube 4 and provided with the vertically-alined guide-lines 10 10, the plumb-line 14, fixed at its upper end and extending longitudinally through said orifice 12, the plumb-bob 16 secured to the lower end of said line within said chamber 13, the threaded shaft 17 mounted on its journals 18 18' in the frame, the nut 20 encompassing said shaft and provided with slots 21 21, the bell-crank lever 22 having one end engaging said nut and its opposite end formed with an eye 24 encompassing said plumb-bob, substantially as shown and described.

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

ANDREW HOWEL PATRICK.

Witnesses:

W. W. CUNNINGHAM,  
W. H. DAVENPORT.