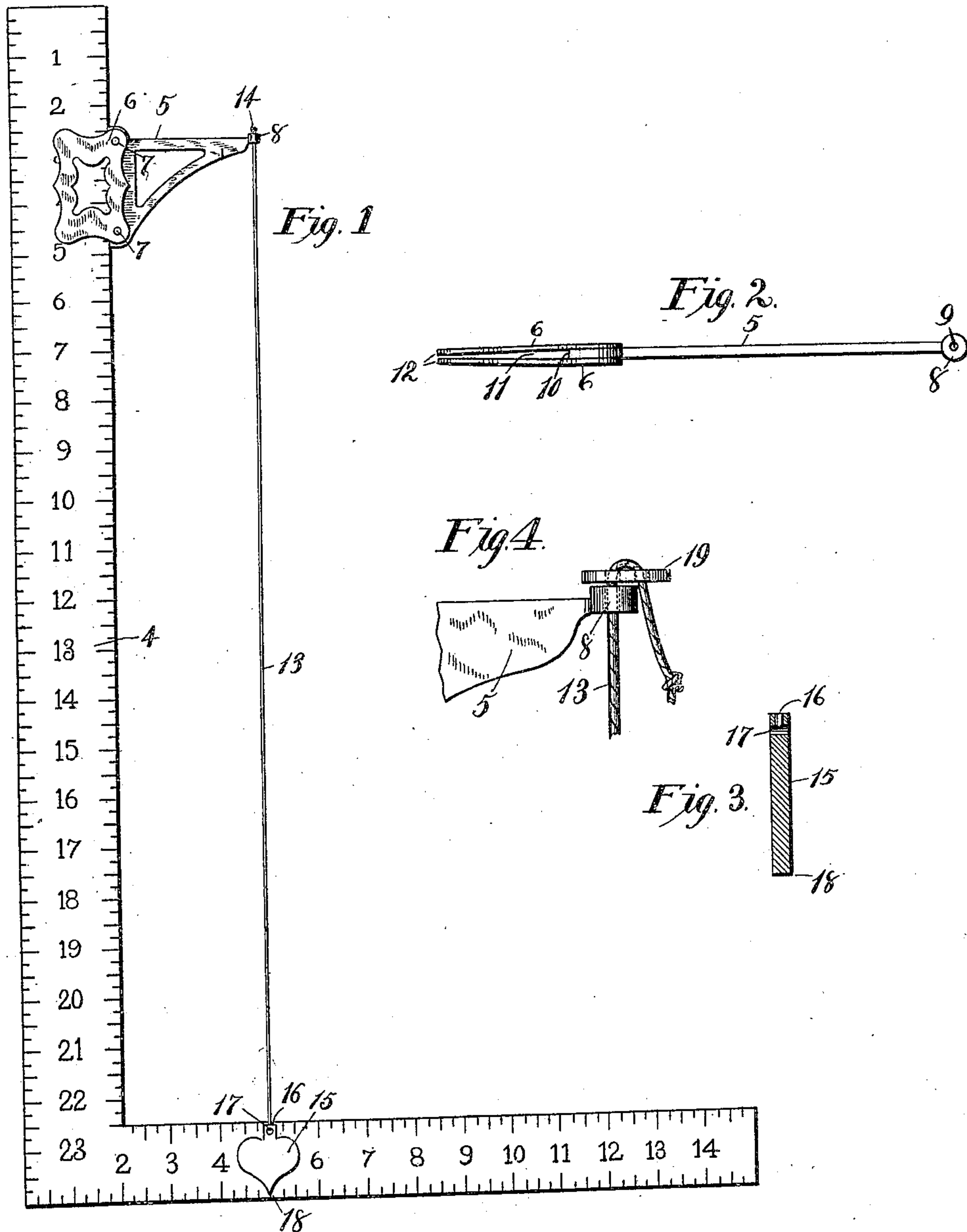


W. LOEVEN.
PLUMB BOB.
APPLICATION FILED MAY 3, 1906.

922,171.

Patented May 18, 1909.



Witnesses:

Chas. F. Bassett
M. A. Milord

Inventor.
Wm. Loeven
By Frederick Benjamin
Atty.

UNITED STATES PATENT OFFICE.

WILLIAM LOEVEN, OF CHICAGO, ILLINOIS.

PLUMB-BOB.

No. 922,171.

Specification of Letters Patent.

Patented May 18, 1909.

Application filed May 3, 1906. Serial No. 314,995.

To all whom it may concern:

Be it known that I, WILLIAM LOEVEN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Plumb-Bobs, of which the following is a specification.

This invention relates to devices for ascertaining whether parts of a building structure are at a true perpendicular and if not, to what extent they are out of plumb.

The particular invention which forms the subject matter of this application comprises a plummet, means for attaching same to a steel square, and means for adjusting the plummet relative to its attaching means.

In the accompanying drawing which forms a part of this application:—Figure 1 shows in elevation a carpenter's square to which my invention is attached; Fig. 2 is an edge view on an enlarged scale of the attaching portion of the device; Fig. 3 is a vertical section, on an enlarged scale through the plumb-bob, and Fig. 4 is a fragmentary detail showing an adjusting element which preferably forms a part of my invention.

Referring to the details of the drawing 4 represents an ordinary steel square adapted to have my plummet attached thereto.

5 represents an angle bracket to the sides of which along the vertical edge 10 are secured by rivets 7, 7, two plates 6, 6, which are preferably made of spring steel and have their free vertical edges 12 pressed inwardly toward each other as shown in Fig. 2, to effect a frictional gripping action on the sides of the square. The outer end of the bracket is formed with a circular lug 8 through which a vertical hole 9 extends.

A cord 13 is passed through the hole 9, and is held therein by a knot 14, or by a knot and a plate 19, the latter having two holes there-

in through which the cord passes, as shown in Fig. 4. The bob 15 having an extension 16 is secured on the opposite end of the cord the latter passing through a vertical hole 16 and secured in a horizontal hole 17 which intersects the hole 16, so that the bob will hang in alinement with the cord. The lower end of the bob has a point 18 which registers with the scale lines on the square when the device is in use.

The devices are designed to be made so that the distance from the hole 9 to the straight edge 10 is exactly three inches, hence the bob point 18 should register with the scale line on the horizontal member of the square which is three inches from the outer edge of the vertical member of the square, and should it not do so, the deviation from a true right-angle, of the parts to which the square is applied, will be clearly indicated.

If in the use of this device it should be desirable to adjust the bob at a greater or less distance from the bracket, the suspending cord may be taken up or let out by pulling same through the plate 19 as will be readily understood.

Having thus described my invention what I claim, is:—

A plummet consisting of two plates spaced apart to receive and frictionally engage a square, a bracket rigidly secured to said plates, a cord slidably arranged in said bracket, a plate adapted to hold said cord against accidental movement, and a bob secured to one end of said cord.

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

WILLIAM LOEVEN.

Witnesses:

WM. B. MOORE,
F. BENJAMIN.