Dec. 9, 1924. 1,518,982

E. HARROLD

WEIGHING SCALE

Filed Dec. 11, 1922

FIG. 1

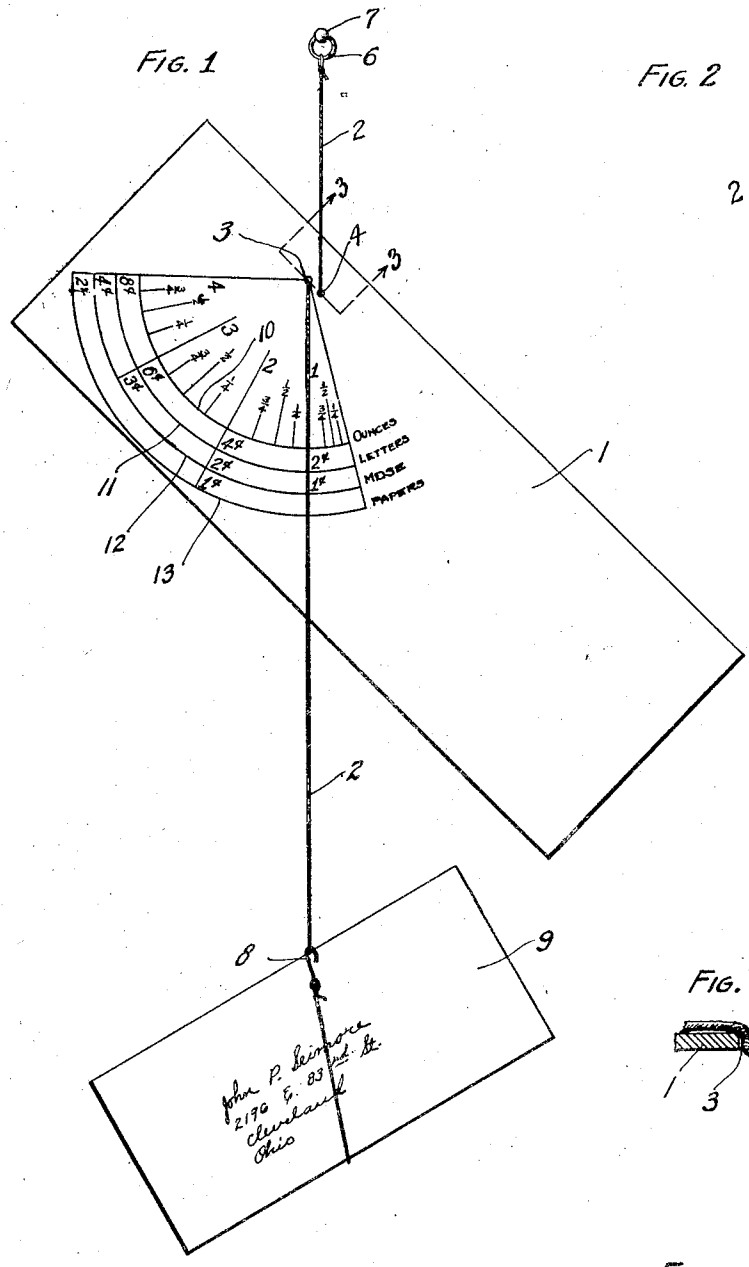


FIG. 2

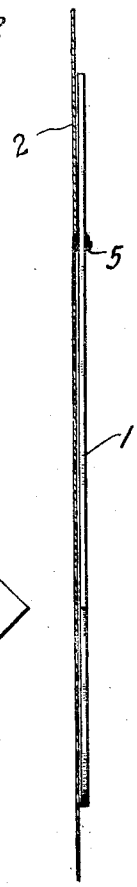
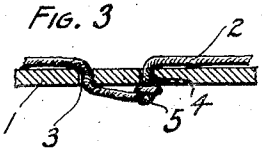


FIG. 3



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UNITED STATES PATENT OFFICE.

ELMER HARROLD, OF LEETONIA, OHIO.

WEIGHING SCALE.

Application filed December 11, 1922. Serial No. 606,125.

To all whom it may concern:

Be it known that I, ELMER HARROLD, a citizen of the United States, and a resident of Leetonia, in the county of Columbiana and State of Ohio, have invented a new and Improved Weighing Scale, of which the following is a full, clear, and exact description.

This invention relates to improvements in scales, an object of the invention being to provide a scale which dispenses with the use of springs and weights, such as ordinarily employed, and which embodies but few parts and yet is accurate in its indications.

A further object is to provide a scale which in some of its forms can be manufactured and sold at an extremely low price so that it can be used for advertising purposes and given away, and which can be placed in an ordinary envelope and transmitted through the mails with a minimum of postage. In other forms of construction it may be made for weighing light and medium weight articles of all kinds, and is of such form and weight that it can easily be shipped or mailed in a flat package.

With these and other objects in view, the invention consists in certain novel features of construction and combinations, and arrangement of parts, as will be more fully hereinafter described and pointed out in the claim.

In the accompanying drawings—

Figure 1 is a view in elevation illustrating my improved scale in operative position.

Figure 2 is a fragmentary edge view.

Figure 3 is an enlarged fragmentary view in section on the line 3—3, of Figure 1.

My improved scale in its simplest form, comprises but two essential parts namely, a board 1 and a cord 2. In employing the term "board," I would have it understood that I use this term in its broadest possible sense to include a sheet or plate of any material, but I preferably employ cardboard, celluloid, or the like for lightness and cheapness—although other materials may be employed to suit the trade.

In using the term "cord," I employ this term to include any flexible device, and do not wish to be limited to the ordinary interpretation of the meaning of the word "cord."

The board 1 is provided with two openings 3 and 4, and the cord 2 is projected first through one opening and then back through the other, and is preferably formed with a knot 5 back of the board 1 to prevent the movement of the cord through the openings after the cord is once positioned.

On one end of the cord 2, I preferably provide an eye 6 to engage over a nail, tack, hook or other supporting member 7, which is preferably secured in a wall or other support, and preferably spaced slightly from the wall yet sufficiently close thereto to prevent horizontal turning movement of the board 1.

On the lower end of the cord 2, I preferably provide a hook 8 so that when the cord is positioned around a letter or package 9, the hook can engage the intermediate portion of the cord 2 and securely hold the package or letter, while it is being weighed. It is obvious, of course, that the invention is not limited to the particular manner of securing the letter or package on the cord, but I believe a hook 8 such as shown to be a simple, cheap and efficient device which not only permits the securing of the letter or the package, but also can lie flat when the cord is wound around the board for shipment through the mails.

On the face of the board 1, I provide a plurality of scales, 10, 11, 12 and 13. The indicating marks of these scales are concentric with the opening 3, as this opening constitutes the axis for the relative movements of the cord 2 and the board 1, and the lower portion of the cord 2 acts as a pointer or indicator, registering with the scales and giving the reading in accordance with the weight, or postage necessary.

The particular scales shown indicate ounces and the postage, for letters, merchandise and papers, although it is obvious that the invention is not limited to the exact scales employed, as this may be varied in many ways.

It is also to be understood that while I have shown a single cord passing through the board 1 and constituting both the upper and lower portions of a single member, it is obvious that independent members might be used, the only essential being that one of the cord members is secured or affixed to the board at a point concentric with the scales, while the other member of the cord is affixed or connected to the board 1 at a point removed from the axis of the scales, as clearly shown in Figure 1.

The operation is as follows—When the device is suspended as shown in Figure 1, the letter or package 2 is coupled to the lower end of the cord 2 and the weight of this package, or letter will cause the board 1 to swing toward a horizontal position thus moving the scales 10, 11, 12, and 13 with relation to the lower portion of the cord 2 and this portion of the cord 2 constitutes a plumb hanging always in a vertical position and registering with the scales to indicate the weight or postage, as will be readily understood.

Various slight changes might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not limit myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claim.

I claim:

A device of the character described, comprising an oblong board having a scale thereon adjacent one end and having openings therein adjacent one longitudinal edge of the board, one of said openings being concentric with the scale, a cord projected through the openings and having a knot therein back of the board between the openings, means on the upper end of the cord for attaching the same to a support, and means on the lower end of the cord for connecting the same to an article to be weighed.

ELMER HARROLD.