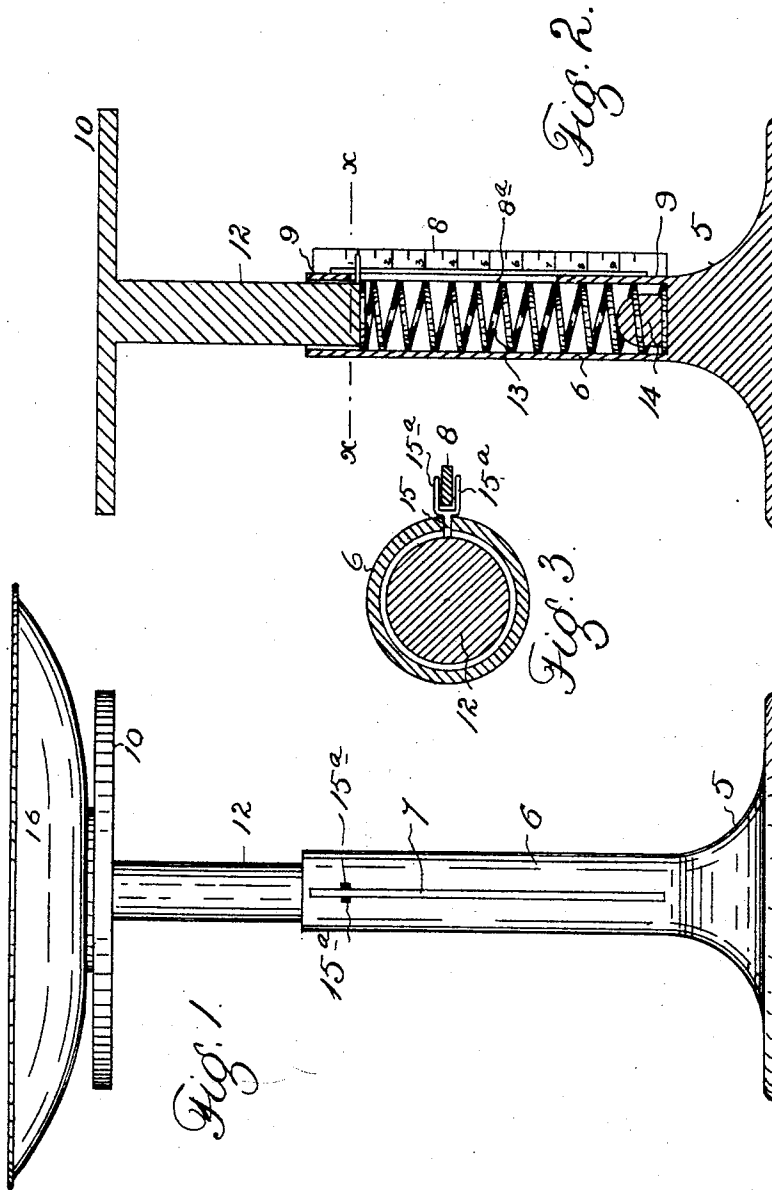


(No Model.)

L. E. A. KOVSKY.
SPRING SCALE.

No. 478,699.

Patented July 12, 1892.



WITNESSES
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LOUISA EVELINE A. KOVSKY, OF DENVER, COLORADO.

SPRING-SCALE.

SPECIFICATION forming part of Letters Patent No. 478,699, dated July 12, 1892.

Application filed February 28, 1891. Serial No. 383,317. (No model.)

To all whom it may concern:

Be it known that I, LOUISA EVELINE A. KOVSKY, a citizen of the United States of America, residing at Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Weighing-Scales; 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in weighing-scales; and the object of my invention is to provide a device of the class stated which shall be of simple and economical construction, reliable, durable, and efficient in use.

The device consists of a suitable base provided with an upwardly-projecting hollow tube, to which is attached in any suitable manner a vertical graduated plate located in front of a slot formed in the tube, in which slot travels the neck or shank of a bifurcated or forked pointer, one arm of which lies on each side of the graduated plate, said pointer being secured to the lower portion of a bar depending from the top plate and telescoping within the tube of the base, in which is located a coil-spring normally supporting the top bar at its upward limit of movement, the spring being compressed by the gravity of articles placed upon the top plate and forcing the telescoping rod or bar downward.

My improved scale will be fully understood by reference to the accompanying drawings, in which is illustrated an embodiment of my invention.

In the drawings, Figure 1 is a side elevation of the scales. Fig. 2 is a vertical longitudinal section taken through the tube of the base. Fig. 3 is a transverse section taken on line $x x$, Fig. 2.

Similar reference characters indicate corresponding parts or elements in the several views.

Let the numeral 5 designate the base, the lower surface of which is of sufficient area to give the scales a stable support. Projecting upward from the base, and preferably integral therewith, is the tube 6, in which is

formed the vertical slot 7. Located in front of this slot, and also secured to tube 6, is the plate 8, graduated on both sides. This plate is attached to the tube at the top and bottom, or both, above and below the slot 7, these points of attachment being shown at 9. To the top 10, which should be flat and of any suitable size, is secured the depending arm 12, which is fashioned to fit within the tube 6, its lower extremity engaging the top of a coil-spring 13, located in tube 6 and surrounding a short projection 14 in the bottom of the tube. To the lower extremity of arm 12 is secured the neck or shank 15 of the double pointer, having two arms 15^a, one of which is located on each side of the graduated plate 8, between the inner edge of which plate and the tube 6 is a narrow space 8^a to allow room for the projection of the shank 15 beyond the slot in which it moves, the inner extremities of the pointer-arms being attached to this projection. In Fig. 1 is shown the ordinary removable scoop 16, resting upon the top 10.

It will be observed that my improved scales are well adapted for use by retail merchants as counter-scales, the double pointer and the plate 8, with two graduated faces, giving the purchaser equal opportunity with the merchant for observing the weight of whatever is placed upon the top of the scales or in the scoop.

Having thus described my invention, what I claim is—

The weighing-scales consisting of a base having the upwardly-projecting vertically-slotted sleeve or tube provided with the plate located in front of the slot attached to the tube at points above and below the slot and having two graduated faces, a coil-spring located within the tube or sleeve, a top plate provided with a depending arm adapted to telescope within the tube of the base, its lower extremity engaging the spring, said arm being provided with a double pointer, the shank of which is adapted to travel within the slot of the tube while one of the pointer-arms moves over each graduated face of the adjacent plate, substantially as described.

LOUISA EVELINE A. KOVSKY.

Witnesses:

ORIE BOWER,
WILLIAM BOND.