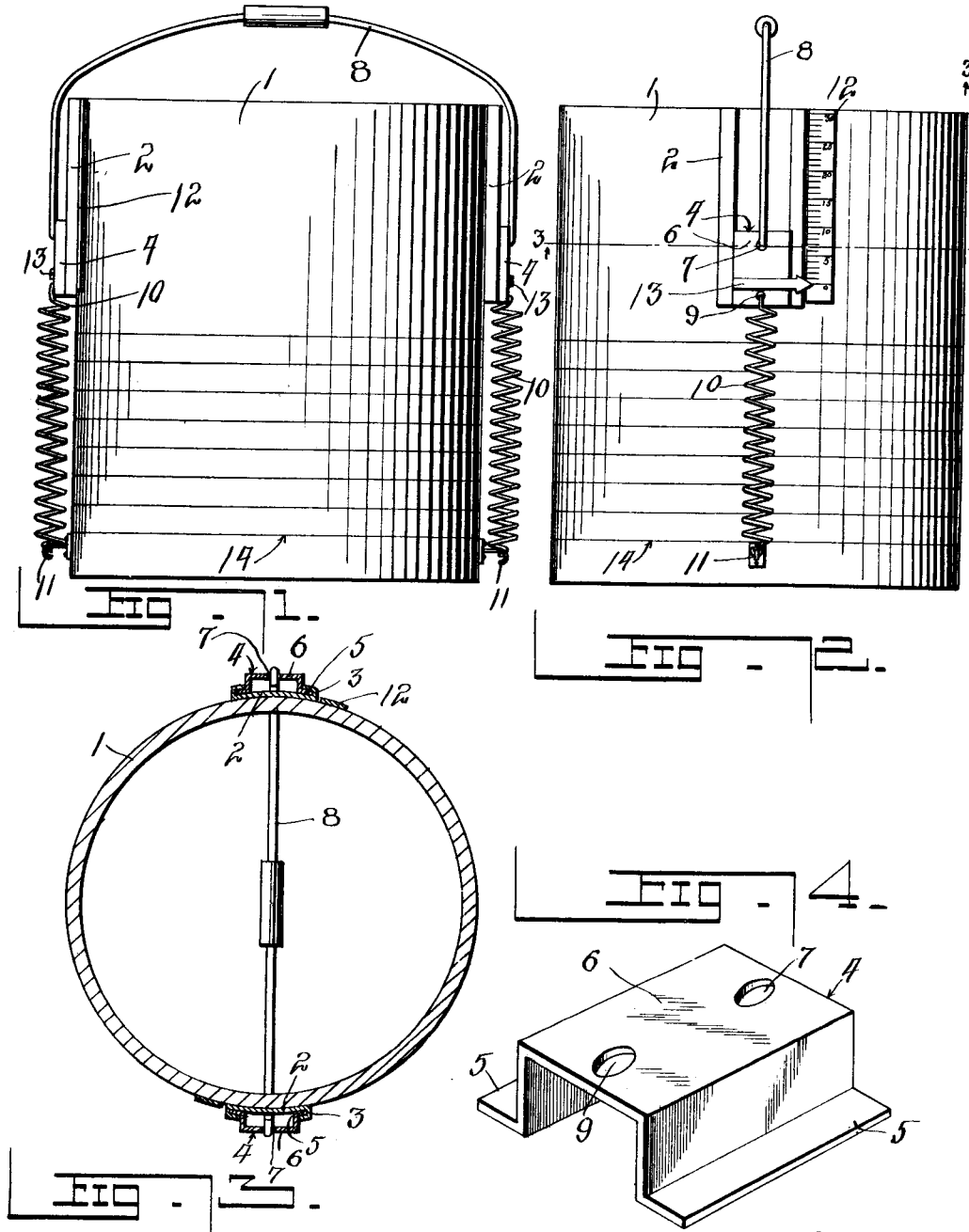


A. B. CHRISTIANSON.
GRAIN WEIGHER AND MEASURER.
APPLICATION FILED MAY 14, 1913.

1,105,618.

Patented Aug. 4, 1914.



Witnesses

Robert T. Williams
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UNITED STATES PATENT OFFICE.

ANTON B. CHRISTIANSON, OF HENDRICKS, MINNESOTA.

GRAIN WEIGHER AND MEASURER.

1,105,618.

Specification of Letters Patent.

Patented Aug. 4, 1914.

Application filed May 14, 1913. Serial No. 767,599.

To all whom it may concern:

Be it known that I, ANTON B. CHRISTIANSON, a citizen of the United States, residing at Hendricks, in the county of Lincoln, State of Minnesota, have invented certain new and useful Improvements in Grain Weighers and Measurers; and I do hereby 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.

The present invention is directed to improvements in grain weighers and measurers, and has for its object to provide a device of this character including a receptacle for measuring grain, and when lifting the receptacle by the usual bail, the weight of the grain or contents will be indicated.

With this and other objects in view, this invention resides in the novel features of construction, formation, combination and arrangement of parts to be hereinafter more fully described, claimed and illustrated in the accompanying drawing, in which:—

Figure 1 is a front view of the device. Fig. 2 is a side elevation of the device. Fig. 3 is a sectional view on line 3—3 of Fig. 2. Fig. 4 is a detail perspective view of the slide.

Referring to the drawing, the numeral 1 designates a receptacle, the same being preferably cylindrical in shape, and has secured to its side and at diametrically opposite points guides 2, the same being formed from sheet metal, and have their outer sides provided with longitudinal slots 3, the purpose of which will appear later.

Adapted for vertical movement in the guides 2 are slides 4, the same being formed from sheet metal, and have their side edges provided with flanges 5, which engage the guides 2, while their bodies 6 travel in the slots 3 of the guides. The bodies 6 have their upper ends provided with perforations 7 for engagement by the bail 8, and their lower ends provided with perforations 9 which are engaged by the upper ends of the coil springs 10, the lower ends of which are connected to hooks 11, said hooks being con-

nected to the receptacle 1 in any well known manner. Plates 12 are connected to the receptacle 1 and adjacent the guides 2, said plates having marked thereon pounds and fractions thereof ranging from one to thirty pounds.

Secured to each of the bodies 6 is a pointer 13 which are adapted to register with the marks upon the plates 12 to denote the weight of the contents of the receptacle.

The receptacle 1 is formed with annular spaced depressions 14, which denote quart measures, and as there are eight depressions a half bushel can be measured and weighed in this manner. The remaining portion of the receptacle is unobstructed by depressions, and in this instance the capacity of the receptacle is one bushel.

Upon grasping the bail and lifting the same, the contents can be readily weighed, and the weight of the contents denoted upon the plates 12 during the time the receptacle is lifted.

What is claimed is:—

A device of the class described comprising a receptacle, guides carried by the receptacle and diametrically opposite each other, slides comprising body portions, flanges carried by the body portions for engaging the guides, said guides having longitudinal slots formed therein and in which said bodies operate, said bodies having upper and lower perforations formed therein, a bail engaging the upper perforations, hooks carried by the receptacle, coil springs having their upper ends engaged in the lower perforations and their lower ends connected to said hooks, scale plates carried by the receptacle and adjacent the guides, pointers carried by the bodies of the slides and adapted to coact with the scale plates to denote the weight of the contents of the receptacle.

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

ANTON B. CHRISTIANSON.

Witnesses:

JOHN A. ROGNESS,
CARL T. SIRLEE.