C. J. McDUFFIE.

MEASURING AND SACKING DEVICE.

APPLICATION FILED SEPT. 11, 1907.

919,917. **Patented Apr. 27, 1909.**

Fig. 1.

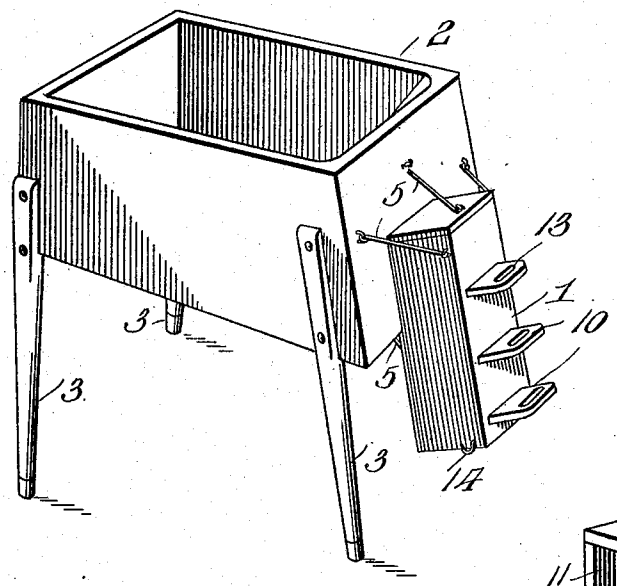


Fig. 3.

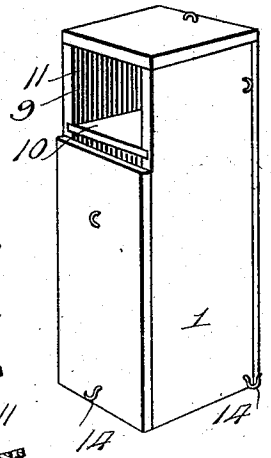
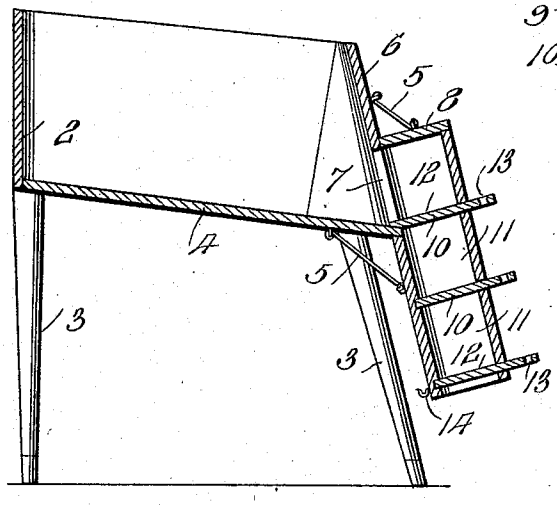


Fig. 2.



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UNITED STATES PATENT OFFICE.

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MEASURING AND SACKING DEVICE.

No. 919,917. Specification of Letters Patent. Patented April 27, 1909.

Application filed September 11, 1907. Serial No. 392,383.

To all whom it may concern:

Be it known that I, CHARLES J. McDUFFIE, a citizen of the United States, residing at Hugo, (P. O. Lenoir county,) in the county of Greene and State of North Carolina, have invented new and useful Improvements in Measuring and Sacking Devices, of which the following is a specification.

This invention relates to an improved apparatus for measuring grain and similar substances and for placing the same in sacks; the object being to simplify and improve the construction and operation of this class of devices.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention; it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention may be resorted to when desired.

In the drawing, Figure 1 is a perspective view of an apparatus for measuring and sacking grain constructed in accordance with the invention. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a detail view of the measuring casing detached.

Corresponding parts in the several figures are denoted by like characters of reference.

The improved measuring and securing device consists of a casing 1 which may be of any suitable size and shape, but it has been shown as being of rectangular cross-section, this being found a very convenient shape, for the purposes of the invention. The casing 1 is supported upon the front end of a bin or receptacle 2, which latter has been shown as being elevated upon legs or supports 3—3. The bottom 4 of the bin 2 is preferably inclined in a downward and forward direction, so that its contents will be guided in the direction of the casing 1 which, as stated, is supported upon the front end of the bin where it is securely held by means of hooks or braces 5—5. The forward end piece 6 of the bin preferably occupies a tilted or inclined position, and it is provided adjacent to its lower edge with apertures 7 through which the contents of the bin may escape into the casing 1, which latter is secured or supported in alinement with said aperture.

The casing may be described as consisting of a tube or sleeve, provided at its upper extremity with a permanent closure 8, and adjacent to its upper end with an opening or aperture 9 which is disposed in registry with the aperture 7 in the front wall of the bin. The casing 1 is provided with a plurality of slidable partitions 10—10 whereby it is divided into a plurality of compartments 11 of a predetermined and known capacity. The slides 10, which are supported in guide grooves 12 in the side walls of the casing, project through the front wall of the latter and are provided with slots 13 forming handles whereby they may be conveniently manipulated. The casing 1 is provided adjacent to its lower edge with hooks or supporting members 14 for the purpose of supporting a sack or a bag into which the contents of the casing may be discharged.

In operation, the contents of the bin is guided through the apertures 7—9 into the casing 1 where it is permitted to fill one or more of the compartments 11, according to the quantity of material which it is desired to place in a bag. One of the slides or partitions 10 is utilized as a cut-off between the casing 1 and the bin or storage chamber 2 while the contents of the measuring compartment of the casing is being discharged into a sack or bag, which latter is meanwhile supported upon the hooks 14.

The improved device is extremely simple in construction and operation, and by the use thereof grain and other materials may be very quickly and accurately measured and placed in sacks, bags or other receptacles. The casing 1 may be readily detached from the bin 2 and used in connection with a storage receptacle of any character to which it may be readily applied and supported in position by means of the hooks or braces 5.

Having thus fully described the invention, what is claimed as new is:—

1. The combination with a storage bin having an inclined bottom and an upwardly and rearwardly inclined forward wall, of a measuring casing connected to the bin and formed with an opening to register with the opening in the forward wall of the bin, said

casing extending below the bottom in alinement with the forward wall, a series of slidable partitions arranged at right angles to the walls of the casing and dividing said casing into a series of superimposed compartments, the rear wall and side walls of the casing being formed with grooves to receive the partitions, one of said compartments being disposed wholly above the bottom of the bin, and bag supporting hooks carried by the lower end of the casing.

2. The combination with a storage bin including a bottom and forward wall and having an opening formed in said forward wall, of a measuring casing including a rectangular structure, a series of partitions dividing said structure into separate compartments, and means for securing said casing to the bin, the relatively rear wall of the casing terminating below the upper wall thereof to form an opening corresponding with the opening in the forward wall of the bin, the upper edge of said rear wall of the casing abutting beneath the lower surface of the bin bottom when the casing is in position on the bin, the lower surface of the relatively upper partition being cutaway on an incline to engage the upper surface of the bin bottom.

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

CHARLES J. McDUFFIE.

Witnesses:
C. H. JONES,
G. H. BELL.