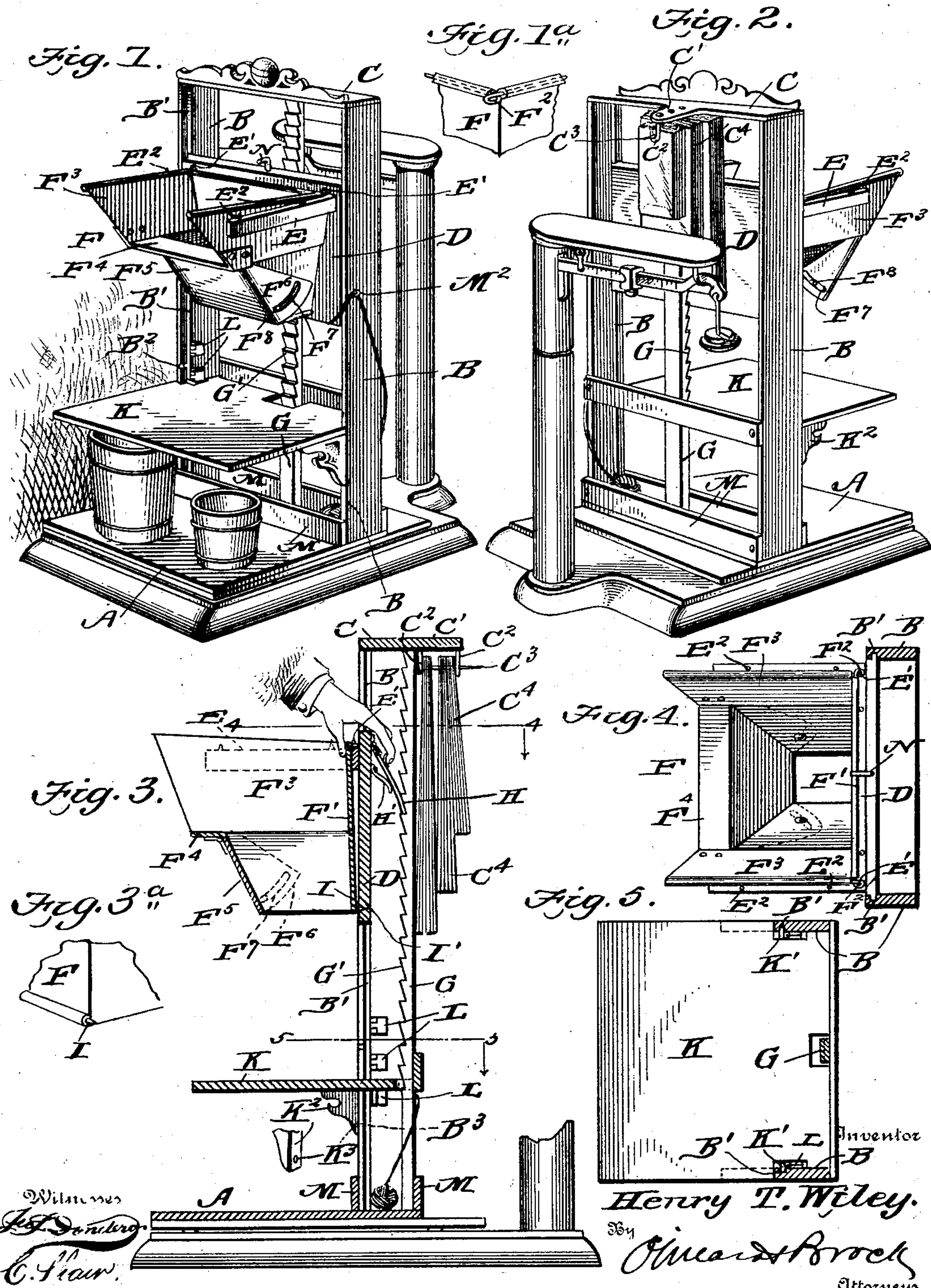


H. T. WILEY.
BAG HOLDER AND FILLER.
APPLICATION FILED JAN. 27, 1902.

NO MODEL.



UNITED STATES PATENT OFFICE.

HENRY TODD WILEY, OF SCOTTTDALE, PENNSYLVANIA.

BAG HOLDER AND FILLER.

SPECIFICATION forming part of Letters Patent No. 720,543, dated February 10, 1903.

Application filed January 27, 1902. Serial No. 91,402. (No model.)

To all whom it may concern:

Be it known that I, HENRY TODD WILEY, a citizen of the United States, residing at Scottsdale, in the county of Westmoreland and State of Pennsylvania, have invented a new and useful Bag Holder and Filler, of which the following is a specification.

This invention is an improved construction of bag holder and filler particularly adapted for use in connection with platform-scales.

The object of the invention is to provide an exceedingly cheap and simple device for holding the bag while being filled; and another object of the invention is to provide a device which can be arranged upon a platform-scale, so that the bags can be filled with a definite weight of material.

Another object is to provide a device which can be quickly and easily adjusted to receive large or small bags of paper, cloth, or other material and also a device which can be adjusted to accommodate long or short bags.

A still further object is to provide a device which shall be neat and compact in form and will combine in one article a bag holder and filler and twine-holder.

With these objects in view the invention consists in the peculiar construction of the various parts and in their novel combination or arrangement, all of which will be fully described hereinafter and pointed out in the claims.

In the drawings forming a part of this specification, Figure 1 is a perspective view illustrating my invention upon the ordinary platform-scale, the view being taken from the front. Fig. 1^a is a detail view showing the loops. Fig. 2 is a perspective view of the device, taken from the rear. Fig. 3 is a vertical longitudinal sectional view. Fig. 3^a is a view showing the pins. Fig. 4 is a section on the line 4 4 of Fig. 3. Fig. 5 is a section on the line 5 5 of Fig. 3.

In constructing a device in accordance with my invention I employ the base A, upon which are supported the upright standards B of the main frame, connected at their upper ends by the cross-piece C, said cross-piece having a central rear extension C', from which depend two hooks C² for the purpose of supporting a pin C³, upon which hang the paper bags C⁴, said bags being preferably ar-

ranged in definite series to facilitate handling. The standards B have longitudinal grooves B' produced in their inner and opposing faces, and sliding in the said grooves between the standards is the board D, said board have the essentially rectangular supporting-frame E secured thereto upon the front face, said frame receiving and supporting the hopper F, said hopper being supported upon the pins E', which are arranged upon the rear member of the hopper-supporting frame E, the side members being provided with pins E², which are adapted to hold the upper edges of a cloth bag or sack fastened thereon. The hopper F has a rear side F', carrying the loops F². The sides F³ converge toward their lower ends, said sides being connected by means of a cross-plate F⁴, riveted midway their height and adjacent to their forward edges, and hinged to the said cross-plate F⁴ is the adjustable front F⁵, having side wings F⁶, which overlap and rest against the sides of the hopper, said wings being slotted, as shown at F⁷, through which passes a pin F⁸, arranged upon the side of the hopper, thereby permitting the front to freely adjust itself to fit different sizes of sacks.

An upright bar G is arranged centrally between the standards B and extends from the base to the top piece, the forward side of said bar being provided with a series of ratchet-teeth G', extending from a point adjacent to the lower end to the top and which are adapted to be engaged by a pawl H, pivoted to the rear side of the sliding board D, said pawl being normally held in engagement with the ratchet-bar by means of a spring H', attached to the board and bearing at its free end upon the under side of the pawl. By means of this toothed bar and the spring-actuated pawl I am enabled to adjust the board carrying the hopper at any desired position.

Whenever a cloth sack or bag is to be filled, the hopper is removed, so as to permit the sack being impaled upon the pins E', carried by the frame E. The edges of the mouth of the sack are thus fastened and the bag or sack is ready to receive the material to be weighed or bagged.

In case a paper bag is employed the mouth of the bag is placed over the lower end of the hopper and the pins I, carried one at each cor-

ner of the rear of the hopper, are passed through the side of the bag, the board D having openings I' opposite the pins I to receive the same. In this manner a paper bag is secured to the lower end of the hopper.

In order to support a bag or sack while being filled, I provide an adjustable platform K, the rear end of which is adapted to fit between the upright standards B and has guide-pins K', which engage the grooves B', said grooves having horizontal slots B², which permit the pins K' to be inserted into the grooves B'. The platform K has brackets K² at each side which bear upon the forward face of the upright standards, each bracket being preferably provided with an aperture K³, which is adapted to receive one pin B³, carried upon the forward face of the standard, thereby locking the brackets in position upon the said standard against lateral movement.

L indicates a series of hinged stops secured to the inner face of the standards adjacent to the groove, said stops being employed to support the board D. The stops L are employed when the device is used for filling a number of bags of the same size, and the said stops are designed to facilitate the operation, inasmuch as the board can be quickly raised and lowered and will rest at the proper point each time, and it will not be necessary to exercise the same care in adjusting the pawl as would be required if these stops L were not in use. In order to bring them into use, it is only necessary to turn one leaf across the face of the groove and the lower edge of the board D will rest thereon. When not in use, the leaf is folded back and the board is free to move up and down and is dependent entirely upon the pawl H for its support.

Cross-strips M are arranged upon opposite sides of the standards at their lower ends and provide a suitable receptacle for a ball of twine, shipping-tags, and similar materials, the cord being passed through a guide-eye M² for the purpose of carrying the twine to a convenient point for use.

The dry measures are always arranged upon the base below the adjustable platform.

A pivoted stop N is arranged at the upper end of the board D, said stop being intended to prevent the dislocation of the hopper, as it will be understood that when the said stop is turned forwardly it will be impossible to remove the hopper; but when the stopper is turned laterally or rearwardly the hopper can then be withdrawn by lifting the same from the pins E'.

In practice I prefer to make the hopper of sheet metal and roll the upper edge over a stout wire, which is looped at the corners, as shown in Fig. 1^a, to provide supporting-loops to engage the pins E'. The lower edges are also rolled around a wire whose ends terminate in pins or points I, as shown in Fig. 3^a.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a device of the kind described, the combination with the main frame, of a vertically-movable board, and means for supporting the same in its adjusted position, an essentially rectangular hopper-supporting frame attached to said board and provided with pins or studs, and a hopper adapted to be supported within the frame, said hopper having an adjustable front side, whereby the discharge end of said hopper is adjusted, substantially as described.

2. In a device of the kind described, the combination with the base and upright standards, said standards being connected at their upper ends by means of a cross-piece, said cross-piece having the rear extension provided with bag-supporting hooks and pins, the toothed bar arranged between the standards, the vertically-movable board sliding between the standards and having a spring-actuated pawl adapted to engage the toothed bar, the hopper-supporting frame and the hopper connected thereto, and the adjustable platform sliding between the standards and below the hopper, substantially as described.

3. In a device of the kind described, the combination with an essentially rectangular-shaped hopper-supporting frame having pins or studs, of the hopper arranged within the hopper-supporting frame and supported by said studs, the front side of said hopper being hinged and provided with lateral wings adapted to overlap the sides of the hopper and the movable part to which the frame is attached, substantially as and for the purpose described.

4. The combination with a hopper-supporting frame having pins, of a hopper having loops at its corners adapted to engage said pins, and the adjustable front having slotted sides, the fixed sides having guide-pins, said pins limiting the movement of the movable side of the hopper, substantially as described.

HENRY TODD WILEY.

Witnesses:

JAMES H. CAMPBELL,
H. C. HUBBS.