(No Model.)

C. L. KELLEY.

BAG FILLING APPARATUS.

No. 267,222. Patented Nov. 7, 1882.

Fig 1

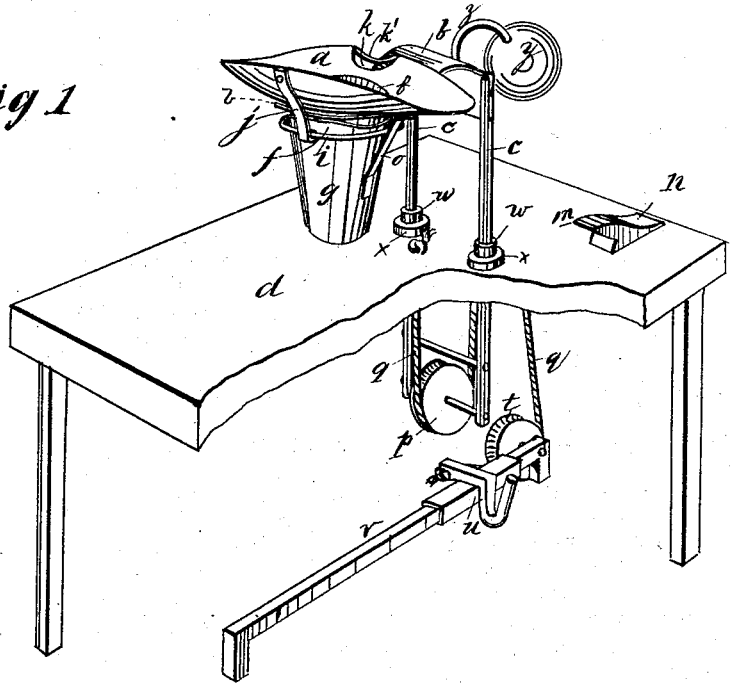


Fig 2

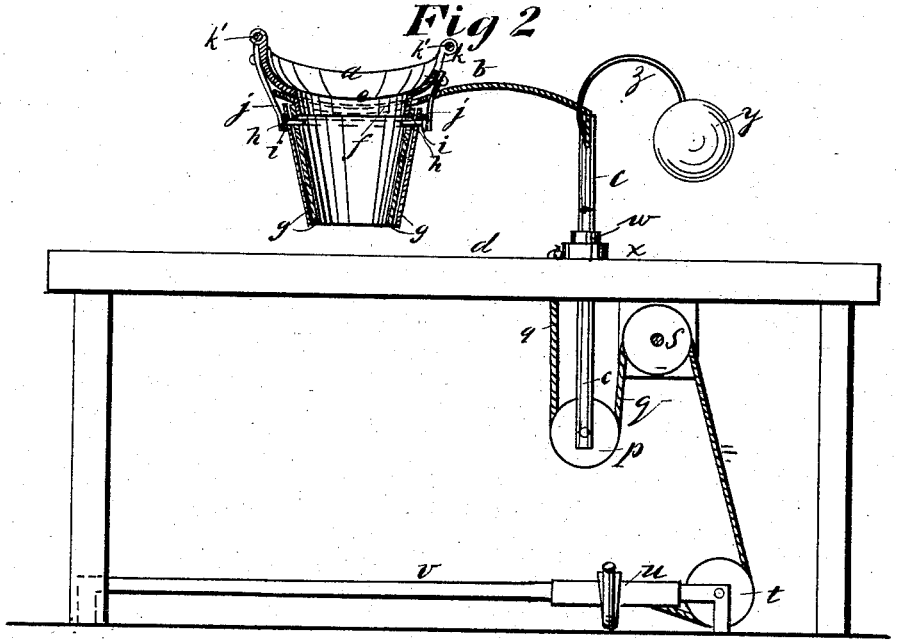
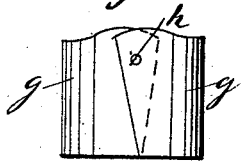


Fig 3



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CHARLES L. KELLEY, OF NEW VIENNA, OHIO.

BAG-FILLING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 267,222, dated November 7, 1882.

Application filed September 7, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHARLES L. KELLEY, of New Vienna, in the county of Clinton and State of Ohio, have invented a new and Improved Bag-Filling Apparatus, of which the following is a full, clear, and exact description.

The invention consists in the bag-filling apparatus and certain combinations, which will first be described, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of my improved bag-filling apparatus and the table or counter whereon it is mounted, a part of the table being broken out. Fig. 2 is a side elevation of the apparatus, partly in section; and Fig. 3 is a detail.

a represents a suitable hopper, which is mounted by means of the plate *b* on the upper ends of the vertical rods *c*, so as to be suspended over the counter *d* suitably to be employed for discharging goods to be put up in bags through its bottom, which has a large opening, *e*, for the purpose, and a short funnel-section, *f*, below, which projects through a hole in the plate *b* to keep the hopper in position thereon, and to which is connected an adjustable funnel-section, consisting of two parts, *g*, which are pivoted together at *h*, to extend and contract at the lower end so as to be closed up suitably for entering the smallest bags, and to extend for more quickly discharging the goods into the larger bags. This adjustable section is connected by its pivots *h* with the ring *i*, and the ring is attached to the hopper *a* by the bars *j*, which extend up the sides of the hopper and are fastened to it by any suitable means. One edge of the hopper has a notch, *k*, in the top, and the wire *k'* of the funnel-rim is bowed downward within the notch *k*, to form a curved rest, in which the hopper of the weighing-scale may be placed to prevent its slipping while pouring out its contents into the funnel *f*. The jointed parts *g* of the funnel are provided with light springs, *o* which are attached at one end to the hopper *a*, and at the other end fitted against the sections of the funnel. They are designed to be just capable of closing said jointed parts to the smallest compass when the funnel is not in use, to enable it to enter the smallest bags, but which yield by the pressure of the stream of falling substance to open the funnel in the larger bags for quicker delivery. The rods *c* extend down through the top of the counter and carry a grooved pulley, *p*, which rests in the bight of a cord, *q*, that passes over pulleys *s* and *t* to a slide, *u*, mounted on a horizontal bar, *v*, located under the counter conveniently for the operator to push the slide along with his foot to raise the funnel up to the height required for the bag to be filled, which is to be held under the funnel, with its bottom resting on the counter and the funnel inserted in its mouth. The rods *c* are provided with collars *w*, which descend upon cushions *x* when the funnel is not in use, the cushions being to prevent shocks to the funnel, and also to prevent noise. For placing the twine-holder *y* conveniently for the operator, and also to utilize it for a counter-balance to the funnel, I locate it on the rods *c* by means of an arm, *z*. This improved funnel-hopper may, if desired, be used by hand without the foot-actuating mechanism.

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

1. The improved bag-filling apparatus, consisting of a hopper and funnel, mounted on the vertically-movable rods *c*, foot-slide *u*, and the cord *q* and pulleys *p-s t*, combined with a counter or table, substantially as described.

2. The combination, with vertical rods *c* and plate *b*, attached at one end to the top of said vertical rods, and having at the other end an opening, of the hopper *a*, having the downwardly-extending funnel-section *f* and opening *e*, and a suspended funnel extending at the top over said section *f*, as shown and described.

3. The combination of the jointed funnel *g*, pivots *h*, ring *i*, and bars *j*, with the hopper *a*, substantially as described.

4. The combination of hopper *a*, jointed funnel *g*, and springs *o*, substantially as described.

CHARLES L. KELLEY.

Witnesses:
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