

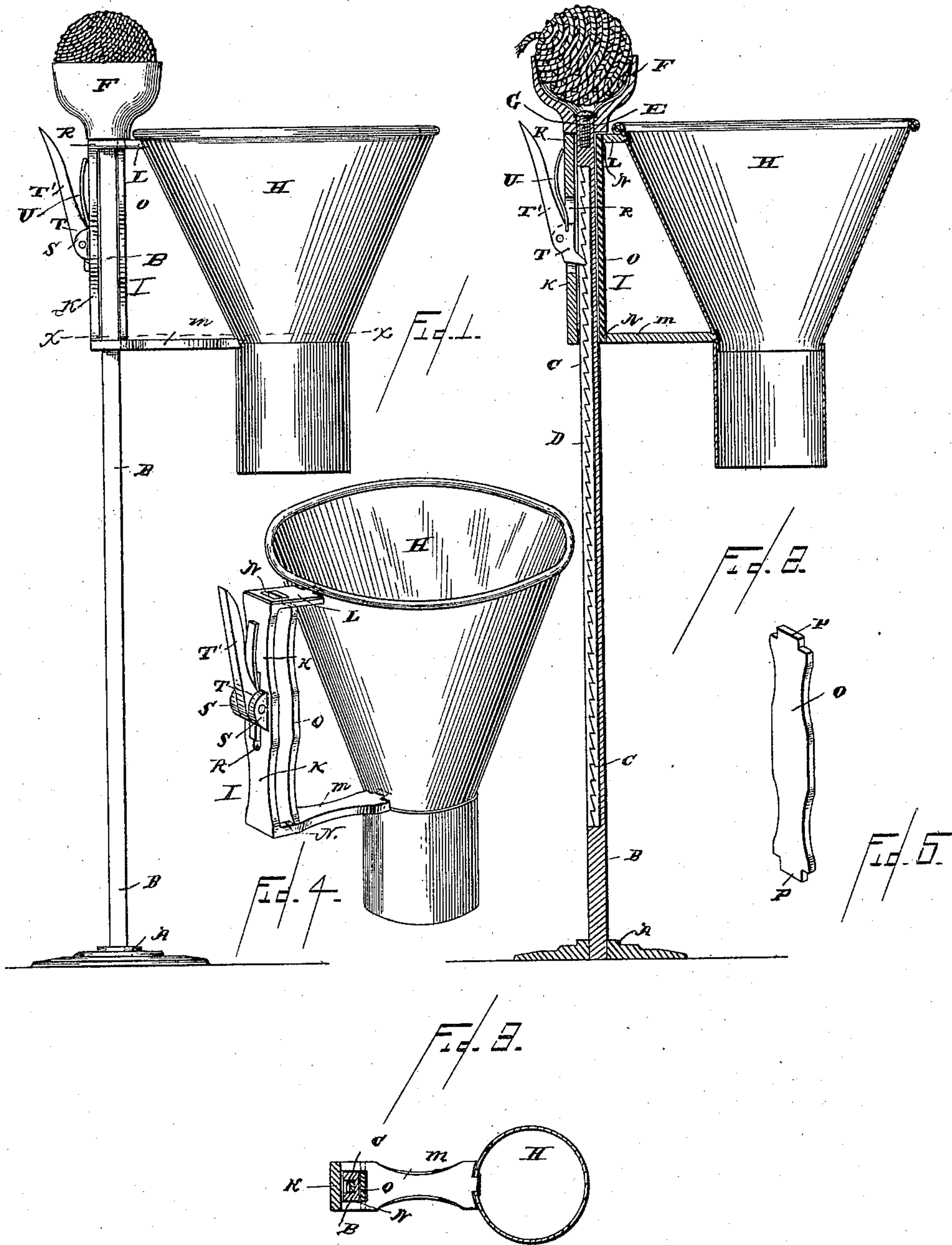
(No Model.)

J. C. JACOBY.

BAG FILLER.

No. 365,748.

Patented June 28, 1887.



Witnesses

Geo. Thayer

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UNITED STATES PATENT OFFICE.

JOHN C. JACOBY, OF ASHLAND, OHIO, ASSIGNOR TO D. F. BRUBAKER, OF
SAME PLACE.

BAG-FILLER.

SPECIFICATION forming part of Letters Patent No. 365,748, dated June 28, 1887.

Application filed October 6, 1886. Serial No. 215,507. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. JACOBY, a citizen of the United States, residing at Ashland, in the county of Ashland and State of Ohio, have invented a new and useful Improvement in Bag-Fillers, of which the following is a specification.

My invention relates to an improvement in bag-fillers, being particularly adapted for use by grocerymen and other dealers for filling paper sacks with ease and rapidity; and it consists in the peculiar construction and combination of devices, that will be more fully set forth hereinafter, and particularly pointed out in the claims.

In the drawings, Figure 1 is a side elevation of a bag-filler embodying my improvements. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a horizontal sectional view taken on line *xx*, Fig. 1. Fig. 4 is a detail view of the funnel and slide, and Fig. 5 is a detail view of the bearing-plate.

A represents a base plate, from the center of which projects a vertical standard, B, which is preferably square or rectangular in cross-section, and is provided on one side with a vertical series of serrated ratchet-teeth, C. These teeth are made in a vertical groove, D, on the rear side of the standard, so that the points of the said teeth are flush with the rear side of the standard. The upper end of the standard is provided with a vertical projection, E, which enters a vertical opening in the lower side of a hemispherical cup, F. A screw, G, works in a threaded opening which is made in the projection E, and the head of the said screw bears against the bottom of the cup F, and thus secures it firmly on the upper end of the standard B.

H represents a funnel, and I represents a slide, which is cast in a single piece, and comprises the vertical portion K, which bears against the rear side of the standard B, the short horizontal arm L at the upper end of the part K, and the longer horizontal arm, *m*, at the lower end of the part K. The upper edge or side of the funnel is attached to the outer end of the short arm L, and the long arm *m* has its outer end secured to and bearing against the funnel near the lower end thereof, as shown, thus supporting the funnel

with its longitudinal axis in a vertical position. At the inner ends of the arms L and *m* are made rectangular openings N, which align with each other, and are adapted to receive the standard B. The openings N are slightly wider than the said standard, so that the latter does not entirely fill the openings.

O represents a bearing-plate, which has its extremities reduced to form tongues P, which enter the openings N and bear against the front side of the standard B, thus forcing the latter against the front side of the part K. The function of this plate O is to prevent lost motion and lateral movement of the standard in the openings, so as to always maintain the funnel and slide in a perfectly vertical position and prevent them from becoming inclined, and thereby causing the sides of the openings N to impinge against the sides of the standard. The portion K is provided with a vertical slot, R, in its center, which registers with the series of ratchet-teeth, and from the rear side of the said portion K project ears S, which are arranged on opposite sides of the slot.

T represents a pawl or detent, which is pivoted between the ears S, and is adapted to engage the ratchet-teeth C. The said pawl or detent is provided with an arm or handle, T'.

U represents a spring, which is attached to the pawl or detent and bears against the rear side of the portion K of the slide, the function of the said spring being to keep the pawl or detent normally in engagement with one of the ratchet-teeth. The said ratchet-teeth have their inclined sides extending rearwardly and upwardly; and it will thus be understood that the slide carrying the funnel may be raised on the standard by simply moving it upwardly thereon, the detent sliding freely over the rear sides of the ratchet-teeth, and serving to support the slide and funnel at any desired vertical adjustment. If it be desired to lower the slide and funnel, it is only necessary to press inwardly on the arm T' of the detent against the tension of the spring, thus causing the detent to disengage from the ratchet-teeth, and the slide and funnel will then descend by their own gravity. In raising the funnel, however, it is not necessary to touch the said arm T'.

The cup at the upper end of the standard is designed for the reception of the ball of twine

which is used for tying up the sacks after they are filled.

The operation of my invention will be very readily understood from the foregoing description and by reference to the accompanying drawings.

I am aware that it has been heretofore proposed to construct a bag-filler comprising a vertical standard, the funnel vertically adjustable thereon, and a device to secure the funnel to the standard at any desired adjustment, and this, broadly, I disclaim.

Having thus described my invention, I claim—

1. The combination, with the vertical standard, of the slide comprising the portion K and the arms L and m at the upper and lower ends thereof, the said arms having the openings N at their rear ends to receive the standard, the funnel secured to the outer ends of said arms, and the bearing-plate O on the front

side of the standard, having the tongues P to enter the openings N, whereby the standard is secured between the portion K and the bearing-plate O, substantially as described. 25

2. In a bag-filler, the combination of a standard provided with ratchet-teeth in its rear side, a slide embracing and movable on said standard and provided with parallel projecting arms, the funnel supported by said arms, a pivoted detent carried by the slide and engaging the ratchet-teeth of the standard, and a bearing-plate secured to the slide and acting on the standard to prevent lateral play, substantially as described. 30 35

In testimony that I claim the foregoing as my own I have hereunto affix my signature in presence of two witnesses.

JOHN C. JACOBY.

Witnesses:

C. D. MASON,

W. F. MASON.