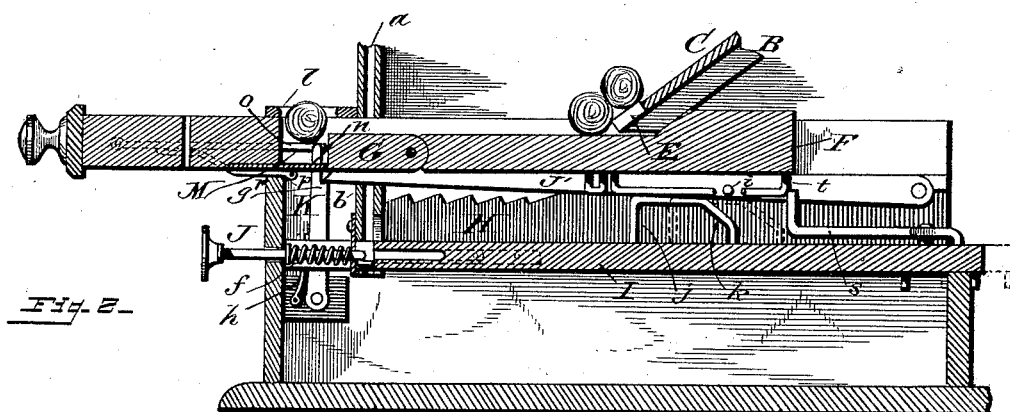
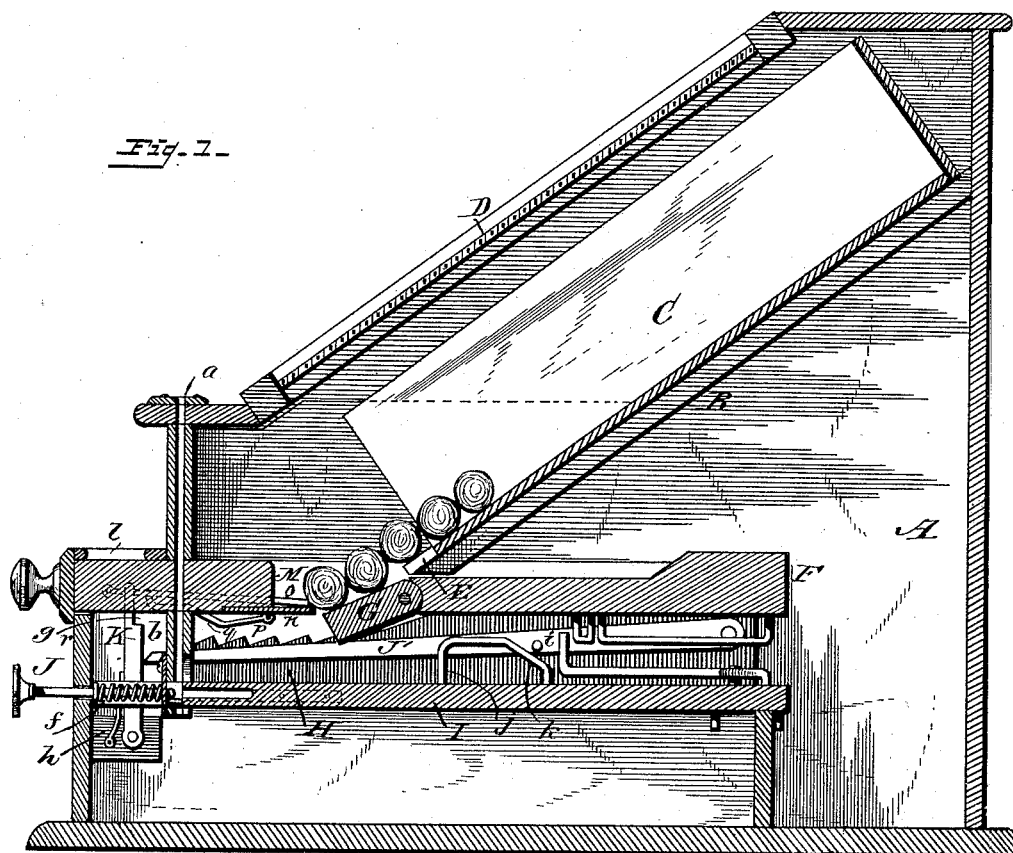


D. W. SHIEK.
VENDING APPARATUS.

No. 385,575.

Patented July 3, 1888.



Witnesses,

Albert Spiden,

E. H. Bond,

Inventor,

Daniel W. Shiek,

By *his* Attorney

Chas. H. Fowler

(No Model.)

2 Sheets—Sheet 2.

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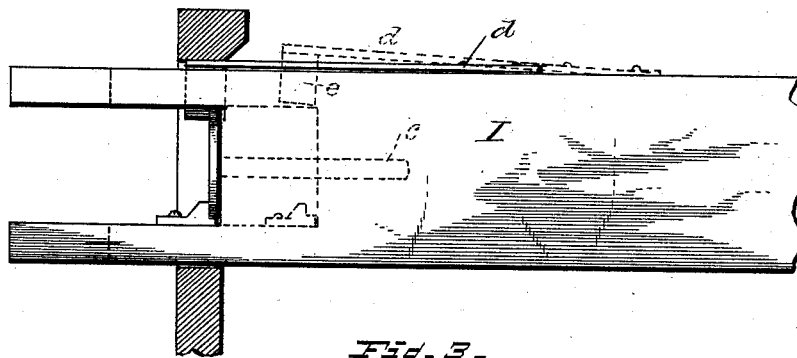


Fig. 3.

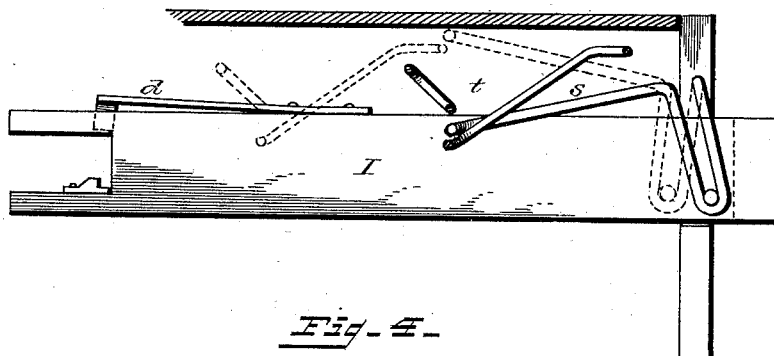


Fig. 4.

Witnesses,

Albert Speiden,

E. H. Bond.

Inventor,

Daniel W. Shiek.

By *W. H. Fowler* Attorney,

Chas. H. Fowler.

UNITED STATES PATENT OFFICE.

DANIEL W. SHIEK, OF OTTUMWA, IOWA, ASSIGNOR OF ONE-HALF TO
JOHN W. RUBEL, OF SAME PLACE.

VENDING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 385,575, dated July 3, 1888.

Application filed January 17, 1888. Serial No. 260,973. (No model.)

To all whom it may concern:

Be it known that I, DANIEL W. SHIEK, a citizen of the United States, residing at Ottumwa, in the county of Wapello and State of Iowa, have invented certain new and useful Improvements in Vending Apparatus; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

This invention relates to certain new and useful improvements in vending apparatus, and, while it is designed more particularly for cigars, I do not intend to be restricted for such purposes, as it may be used for a variety of articles.

The invention consists in the peculiar combinations and the novel construction, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and then particularly pointed out in the claims.

In the accompanying drawings, which form a part of this specification, Figure 1 is a central vertical longitudinal section of a device of this character constructed in accordance with my invention. Fig. 2 is a similar section of the operating parts, shown in a different position from that in which they appear in Fig. 1, other parts being removed or broken away. Fig. 3 is a top plan of a detail, more particularly hereinafter referred to. Fig. 4 is a sectional detail, more specifically defined by letter hereinafter.

Referring to the drawings by letter, A designates a box or case designed to contain the operating parts of my device.

B is an inclined shelf or strips suitably supported within the case and designed to support the cigar-box C, the lower end of which is removed to allow the cigars to pass therefrom, as shown in Fig. 1. That part of the case over the cigar-box is provided with a glass cover, D. A transverse strip, E, is provided to engage the lower end of the bottom of the cigar-box and retain it in place. Any suitable means may be employed for locking the case after the box of cigars has been placed therein. The device has the appearance of an

ordinary show-case with the cigars in such a position as to show to the best advantage.

F is a slide arranged beneath the cigar-box and adapted to be moved longitudinally in the case. This slide has a hinged portion, G, designed to engage a ratchet-bar, H, and securely lock the slide, so that it cannot be drawn out until this hinged portion is raised clear of the ratchet by mechanism soon to be described. In the top of the case at one end is a vertical slit, *a*, which is made just large enough to admit a coin designating the value of one of the cigars—say a five-cent piece. This slit coincides with a corresponding slit in the slide F and a corresponding slit in the cross-bar *b*.

I is a slide arranged beneath and substantially parallel with the slide F. Its construction is best shown in Fig. 3, being bifurcated at its outer end and formed with a longitudinal slot, *c*. To one side of this slide is secured one end of a spring-bar, *d*, formed with an inwardly-extending portion, *e*, which works through a slot in one of the bifurcations of the slide.

J is a push-button and pin working through an opening in the case and provided with a spring, *f*, which normally keeps said pin pressed outward.

Pivoted to the rack-bar is the arm J', and pivoted at the front end of the case is the vertical lever K, provided with a notch, *g*, and acted upon by the spring *h*. The arm J' is provided near the center of its length with the lateral pin *i*, and the slide I with a plate or arm, *j*, having an inclined portion, *k*.

The front of the case is provided with an opening, *e*, through which the cigars are to be removed, and in the slide F forward of its hinged portion is an opening, M, large enough to receive a cigar. In order to bring the cigar into a convenient position in the opening in front of the case, I secure to the bottom of the slide F a plate, *n*, and in a groove in said slide I place a strip, *o*, beneath which is placed a spring, *p*, having a bent portion, *q*. This strip works through an opening in the plate *n* and is designed to be actuated by the bent portion of the spring coming in contact with the fixed portion *r* of the case as the slide is drawn out.

The portion of the case beneath the lower slide forms a receptacle for the coins.

Under the rear end is placed a bent lever, *s*, fastened to the slide *I* and designed to be actuated by the arm *t* on the slide *F* so as to bring the slide at all times to its proper place. If the slide *I* is not pushed back far enough, the slide *F* through said bent lever and arm will move it back far enough to release the coin.

The operation is as follows: The cigars are placed in the case as indicated. When a nickle is placed in the coin-slit, it falls until it strikes the portion *e* of the spring *d* in front of the pin *J*. Said pin is then pressed in upon and, coming in contact with the coin, moves the slide *I*, which elevates the arm *J'*, which in turn raises the hinged portion *G* clear of the rack-bar, when its point engages the notch *g* of the lever *K*. This leaves the slide *F* unlocked and at the same time forms an opening in the slide just large enough to admit one cigar. The backward movement of slide *I* releases the spring *d* and allows the coin to drop into the space below. The cigar, coming in contact with the lever *K* and moving it forward, releases the arm *J'* from its engagement from said lever and allows it to drop. If the slide is now pulled back, the hinged portion *G* will fall and engage the rack-bar; but if from any cause the cigar does not get into the opening when the slide is drawn out the arm *J'* will remain elevated and the hinged portion *G* cannot drop upon the rack-bar, and the slide will remain unlocked and can be moved back and forth until it brings a cigar.

What I claim as new is—

1. The combination, with the slide having

hinged portion forming a pawl or dog, the fixed rack-bar, and the pivoted lever on said rack-bar, of a slide independent of said lever, a laterally-projecting pin on the lever, and a plate on the slide having an inclined portion engaging said pin, substantially as and for the purpose specified.

2. The combination, with the case having coin-slit and the slide having coin-slit and hinged portion forming a pawl or dog, as described, of the fixed rack-bar, the lever pivoted thereto, a slide constructed to actuate said lever to release the dog or pawl, a coin-retaining spring carried by said slide, and a push-button for actuating the slide, as set forth.

3. The combination, with the case and the slide having an opening, as described, of the plate *n*, secured to the bottom of said slide, a strip, *o*, carried by said slide in a groove therein, and a spring, *p*, having a bent portion, *q*, and working through an opening in the plate *n*, substantially as and for the purpose specified.

4. The combination, with the case having coin-slit, the fixed rack-bar, and the slide *F*, having a hinged portion forming a pawl or dog engaging said rack-bar, of a bifurcated slide carrying a coin-retaining spring and provided with central longitudinal slot, and the push-button constructed to actuate said bifurcated slide, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

DANIEL W. SHIEK.

Witnesses:

DAVID T. MILLER,
W. G. BALL.