

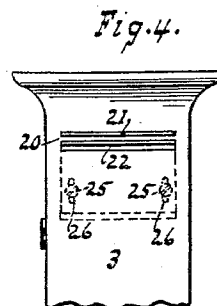
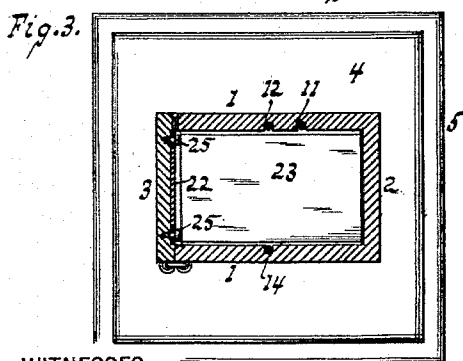
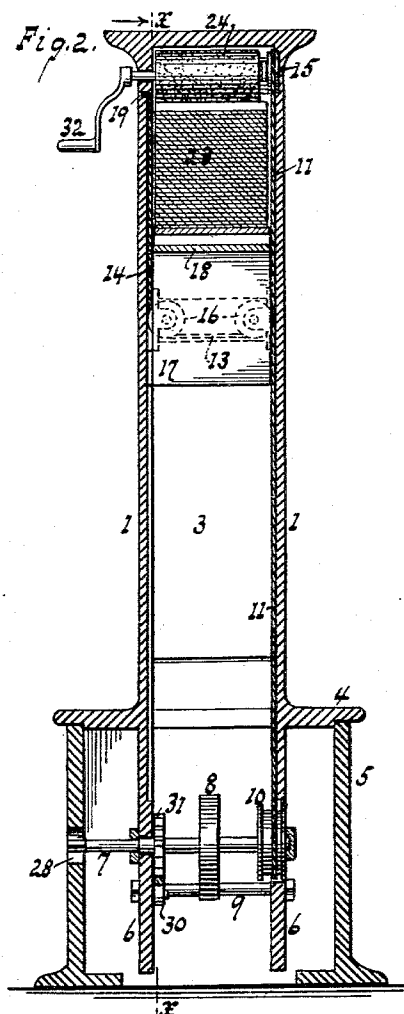
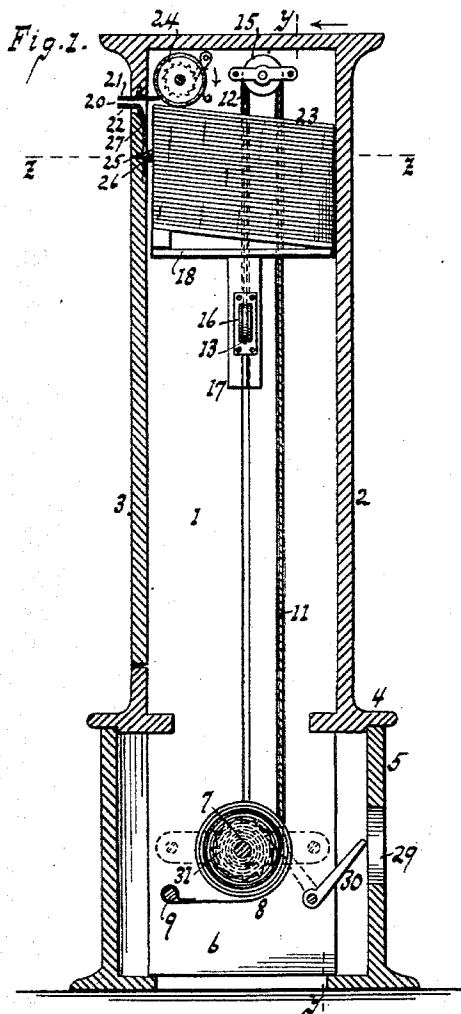
(No Model.)

J. T. HOYT.

DEVICE FOR DISTRIBUTING PAPER, CIRCULARS, &c.

No. 546,154.

Patented Sept. 10, 1895.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES T. HOYT, OF NEW YORK, N. Y.

DEVICE FOR DISTRIBUTING PAPER, CIRCULARS, &c.

SPECIFICATION forming part of Letters Patent No. 546,154, dated September 10, 1895.

Application filed April 25, 1895. Serial No. 547,193. (No model.)

To all whom it may concern:

Be it known that I, JAMES T. HOYT, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Devices for Distributing Paper, Circulars, &c., of which the following is a specification.

The object of this invention is to provide a device by which such articles as paper, time-tables, folded circulars, envelopes, maps, and other objects can be readily stored and distributed; and the invention resides in the novel features of construction set forth in the following specification and claims, and illustrated in the annexed drawings, in which—

Figure 1 is a side elevation of the device sectioned along *xx*, Fig. 2. Fig. 2 is a section along *yy*, Fig. 1. Fig. 3 is a section along *zz*, Fig. 1. Fig. 4 is a detail view of guides.

The device comprises a receptacle and a base, the receptacle comprising the side pieces 1 and the back 2, the front being shown closed by a door 3 giving access to the interior of the receptacle. The offset 4 of the receptacle rests on a base 5, into which extend the pieces 6, shown as extensions of the side pieces 1.

The pieces 6 form the bearing for a rotary shaft 7, exposed to the action of a coiled spring 8, braced by a suitable stud or cross bar 9. To shaft 7 is fixed a pulley 10, from which extends a cord or flexible connection, of which various parts are designated by the numerals 11, 12, 13, and 14.

The part 11 extends from pulley 10 to pulley 15 mounted at the upper part of the receptacle. The parts 12, 13, and 14 extend, respectively, from pulley 15 to and about pulley or pulleys 16 in the base 17 of the feeder or pressure plate 18, and said part 14 is fixed at 19 to the upper part of the receptacle. The parts 11 and 12 thus lie along the side 1 opposite to that along which part 14 extends. By providing grooves or ways for the cord parts 11, 12, and 14, said parts will not interfere with the motion or travel of the feeder 18. The action of spring 8 tends to move the feeder 18 toward the mouth 20, at which are the guides or plates 21 and 22.

The charge 23 of the feeder, such as paper or envelopes or the like, can be taken off the pile one at a time and delivered through the

mouth or discharge 20 by the ejector 24, conveniently made as a roller, actuated by handle 32, or, if desired, as a frictional slide.

The guide-plate 22 is shown adjustably secured by a screw-and-slot connection 25 and 26, so that said plate can be set with regard to plate 21 for allowing but one thickness or article from the pile or charge 23 passing at a time through mouth 20. By securing the plate 22 to door 3 the plate will swing or move with the door away from the receptacle when the door is opened. This door 3 is shown with an inclined portion 27 tapering toward mouth 20, so that the plate 22 can be snugly and properly seated or applied.

To be properly charged the feeder 18 should of course be moved away from mouth 20. The shaft 7 is formed for the engagement of a key or handle, (not shown,) a suitable opening 28 in the base 5 allowing the key to be applied to the shaft. Such key when applied will enable shaft 7 to be rotated against the tension of spring 8, so as to unwind the cord portion 11 from pulley 10, thereby allowing feeder 18 to move away from mouth 20. When the feeder 18 has been moved sufficiently far from the mouth, the shaft 7 can be temporarily locked by suitable means, an opening 29 in base 5 giving access to a detent or lock 30, which when engaged to a ratchet 31 on shaft 7 will lock the latter. Other well-known forms of lock can of course be used. The feeder 18 can then be charged, after which the detent 30 can be released to leave spring 8 free to move the feeder toward the mouth 20.

The arrangement of the spring it is noticed is such that as the feeder moves toward the mouth 20 in consequence of portions of the charge 23 being ejected or withdrawn, the tension of the spring gradually decreases, so that such spring tension adjusts itself to the gradually diminishing weight borne by the feeder 18.

In the drawings one spring 8 is shown, but it is evident that more springs can be connected to shaft 7 if required. As the spring 8 is housed in the base 5 said spring will not interfere with the movement of feeder 18 in the receptacles 1 and 2.

It might be noticed that the spring 8 could be applied at the top of the device and suit-

ably connected to the feeder or pressure plate 18, but it is thought preferable to house the spring in the base.

The receptacle can be made to sit loosely on the base, so that said receptacle can be lifted off when required, as for repair or transportation.

What I claim as new, and desire to secure by Letters Patent, is—

10 1. A delivery apparatus comprising a base and a receptacle, combined with a spring housed in the base, a rotary shaft and pulley actuated by said spring, a feeder or pressure plate arranged in said receptacle, a cord or
15 flexible connection wound by the pulley and made to engage the feeder for actuating the latter, and an ejector placed in the path of the feeder and made to arrest the latter with its charge so that the feeder is successively
20 advanced as each portion of the charge is successively removed by the ejector, substantially as described.

2. A delivery apparatus provided with a coiled spring, a rotary shaft and pulley actu-

ated by said spring, a feeder or pressure plate, 25 a connection interposed between the pulley and feeder for actuating the latter, an ejector, a ratchet fixed to the rotary shaft, and a pawl or lock for engaging the ratchet to hold the spring out of action at any desired point of 30 the travel of the feeder while charging the latter, substantially as described.

3. A delivery apparatus comprising a base and a receptacle mounted on the base and having extensions projecting into said base, a 35 spring actuated pulley journaled in said extensions, a feeder in the receptacle, a connection between the pulley and feeder for actuating the latter, and an ejector substantially as described. 40

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JAMES T. HOYT.

Witnesses:

WM. C. HAUFF,

E. F. KASTENHUBER.