

R. B. VAN DYKE.
MECHANISM FOR FEEDING ENVELOPS.
APPLICATION FILED APR. 29, 1908.

921,185.

Patented May 11, 1909.

2 SHEETS—SHEET 1.

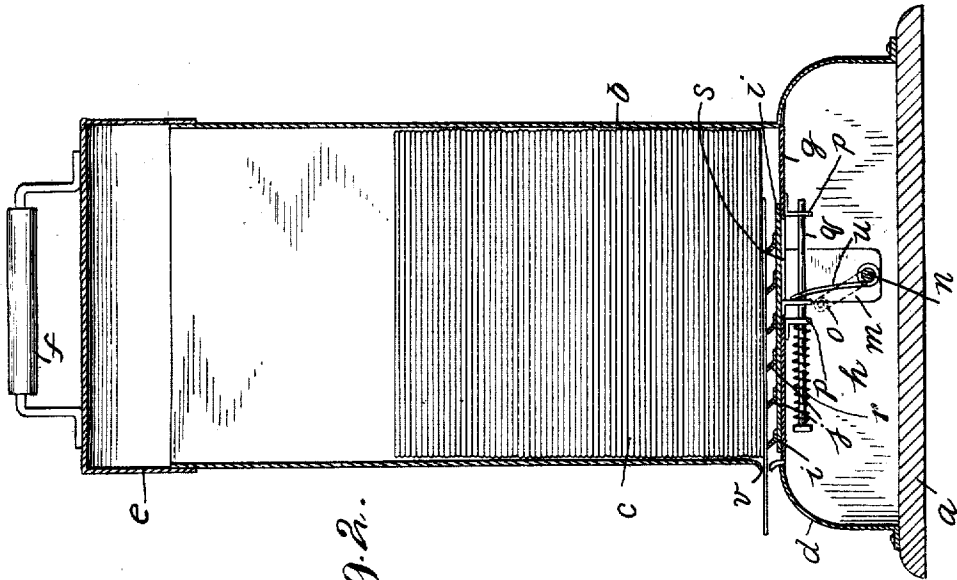


Fig. 2.

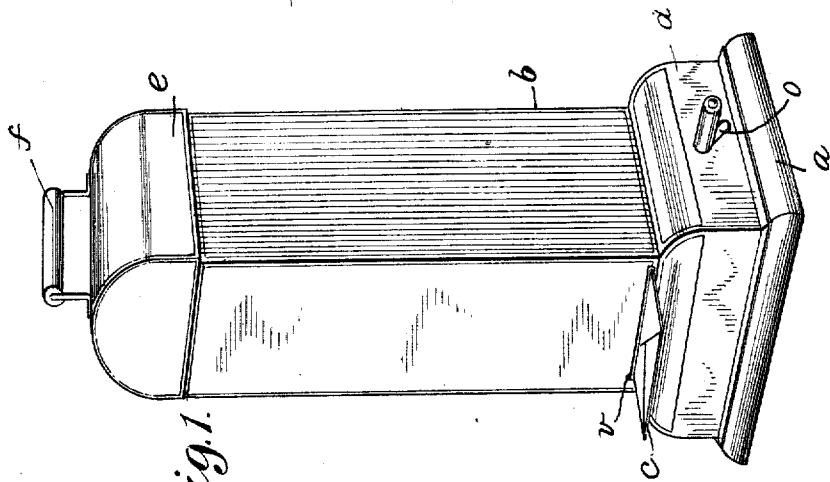


Fig. 1.

Witnesses:
Harry C. Helbig
M. Campion.

Robert B. Van Dyke Inventor
By his Attorney
James Hamilton

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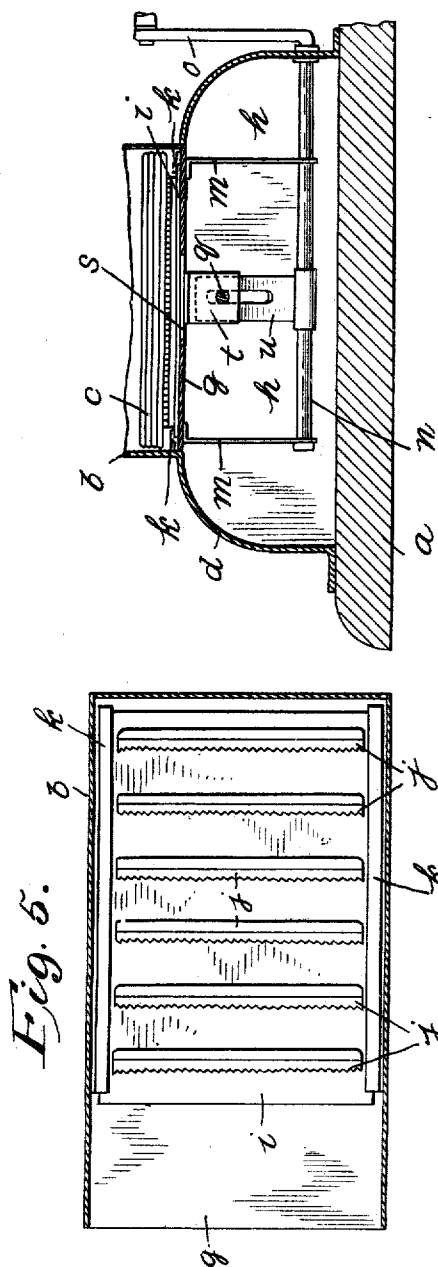


Fig. 5.

Witnesses:
Harry C. Hebig
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Fig. 4.

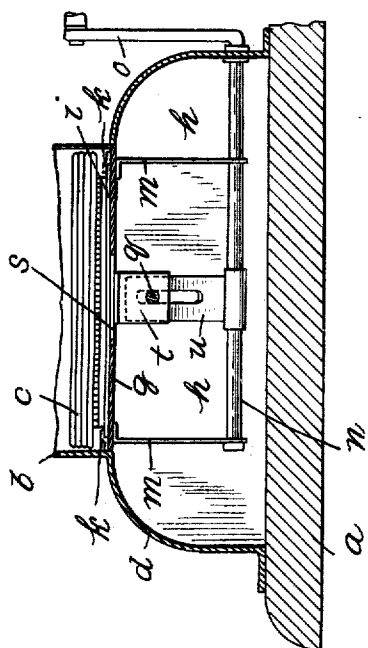
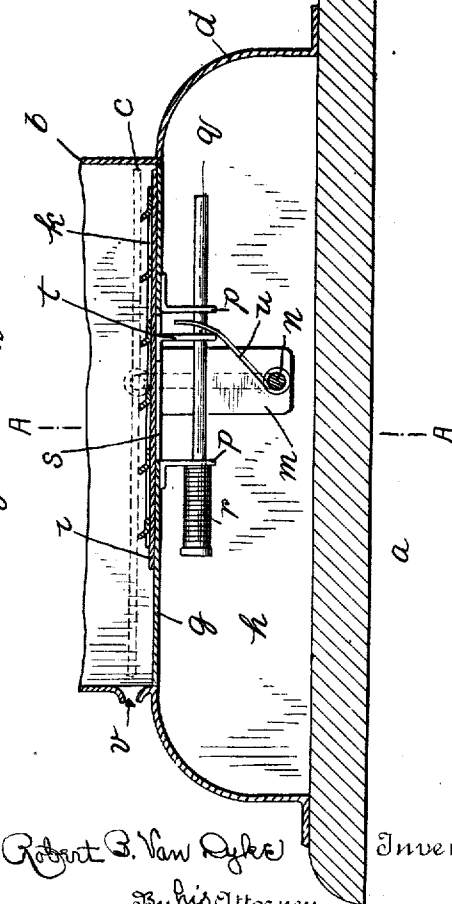


Fig. 3.

Robert B. Van Dyke
By his Attorney
James Hamilton

Inventor

UNITED STATES PATENT OFFICE.

ROBERT B. VAN DYKE, OF ANDERSON, INDIANA.

MECHANISM FOR FEEDING ENVELOPS.

No. 921,185.

Specification of Letters Patent.

Patented May 11, 1909.

Application filed April 29, 1908. Serial No. 430,024.

To all whom it may concern:

Be it known that I, ROBERT B. VAN DYKE, a citizen of the United States, residing at Anderson, in the county of Madison and State of Indiana, have invented certain new and useful Improvements in Mechanism for Feeding Envelops, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to improvements in devices for feeding envelops and like articles one at a time from a pile contained in a holder; and an object of my invention is to provide a device of the character described which will be simple in construction, comparatively cheap in manufacture and most efficient in operation.

In the drawings illustrating the principle of my invention and the best mode now known to me of applying that principle, Figure 1 is a perspective view of the device; Fig. 2 is a central vertical section showing the position of the feeding mechanism just after an envelop has been fed; Fig. 3 is a section of the feeding mechanism on an enlarged scale and showing the feeding mechanism before it has been actuated to feed an envelop; Fig. 4 is a section on the line A—A of Fig. 3; and Fig. 5 is a detail in section showing the feed-plate in plan.

The base *a* supports a shell or casing the upper part *b* of which constitutes a holder for the pile of envelops *c* and the lower part *d* of which serves as a housing for the feed mechanism. The top of the holder *b* is closed by the cover *e* which is provided with a suitable bail *f*.

The bottom of the holder *b* is closed by the partition-plate *g* which separates the holder from the chamber *h* in which is mounted the driving mechanism. Upon the partition plate *g* is slidably mounted a feed-plate *i* which is provided with a series of transverse toothed or serrated feed-bars *j* and the edges of which lie under the guide-bars *k* (Figs. 4 and 5).

From the partition-plate *g* project downwardly two hanger-bars *m* in which is mounted the rock-shaft *n* one end of which extends outside of the casing or housing *d* and

is there provided with a rocker-arm *o*. From the partition-plate *g* also depend two hanger-bars *p* in which is slidably supported a plunger-rod *q* to one end of which is fastened one end of a coil-spring *r* the other end of which is fastened to the adjacent hanger-bar *p* (Figs. 2 and 3). The partition-plate *g* is formed with a central opening *s* through which projects the connection-plate *t* one end of which is fastened to the feed-plate *i* at the bottom thereof and the other end of which is attached to the plunger-rod *q*. Upon the feed-shaft or rocker-shaft *n* is mounted immediately below the central opening *s* a feed-arm *u* the upper part of which is bifurcated. The feed-arm *u* straddles the plunger-rod *q* and its upper end lies in rear of the connection-plate *t*.

The serrated feed-bars *j* have an upward and forward inclination from the feed-plate *i* and upon their toothed edges lies the lowermost envelop *c* of the pile. When the crank-arm *o* is thrown to the position shown in Fig. 1 and by dotted lines in Fig. 2, the feed-arm *u* presses against the connection-plate *t* and forces the plunger-rod *q* and feed-plate *i* to the position shown in Fig. 2, thereby carrying the lowermost envelop outwardly through the slit *v* in the bottom of the wall of the holder *b* and stretching the coil-spring *r*. The latter restores the parts to their original or normal position, when the pressure on the crank-arm *o* is removed, leaving the fed envelop projecting through the slit *v* ready to be gripped and pulled out by hand.

I claim:

A mechanism of the character described, consisting of the combination of a casing; a partition-plate formed with an aperture and mounted in said casing; a feed-plate formed with a frictional surface and mounted slidably upon said partition-plate, said feed-plate being provided with a connection-plate which extends downwardly through said aperture; a spring-controlled plunger-rod mounted free to slide within said casing below said partition-plate and attached to said connection-plate; a rock-shaft rotatably mounted in said casing; and a

rocker-arm mounted on said rock-shaft and adapted to be pressed against said connection-plate by the turning of said rock-shaft, whereby said feed-plate is caused to slide
5 upon said partition-plate to feed the material.

In witness whereof I have hereunto set

my hand at said Anderson this 23rd. day of April, 1908, in the presence of the two undersigned witnesses.

ROBERT B. VAN DYKE.

Witnesses:

WALTER G. CAREY,

HERBERT M. WALKER.