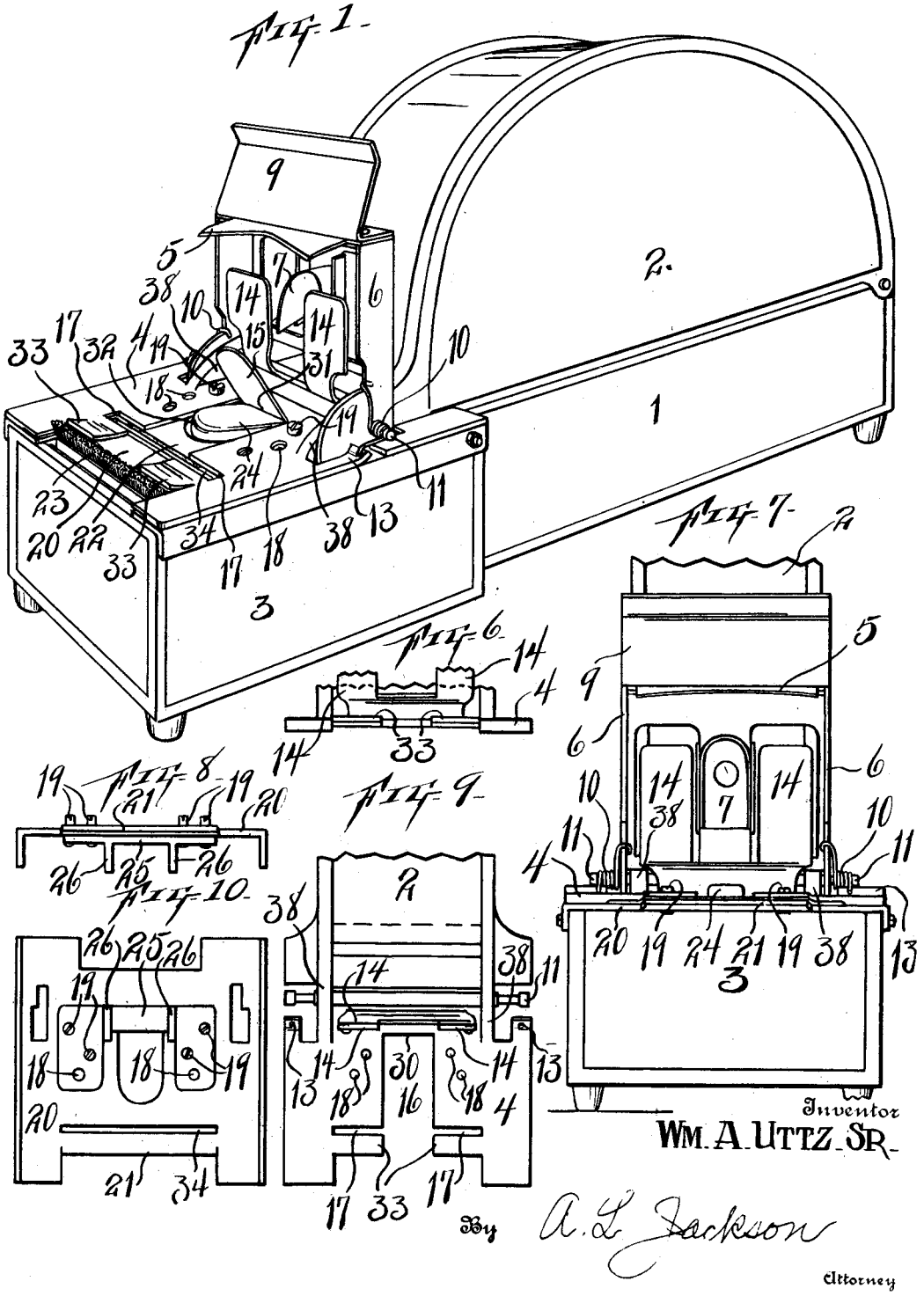
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W. A. UTTZ, SR

PACKAGE SEALING MACHINE

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W. A. UTTZ, SR

PACKAGE SEALING MACHINE

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FIG. 2.

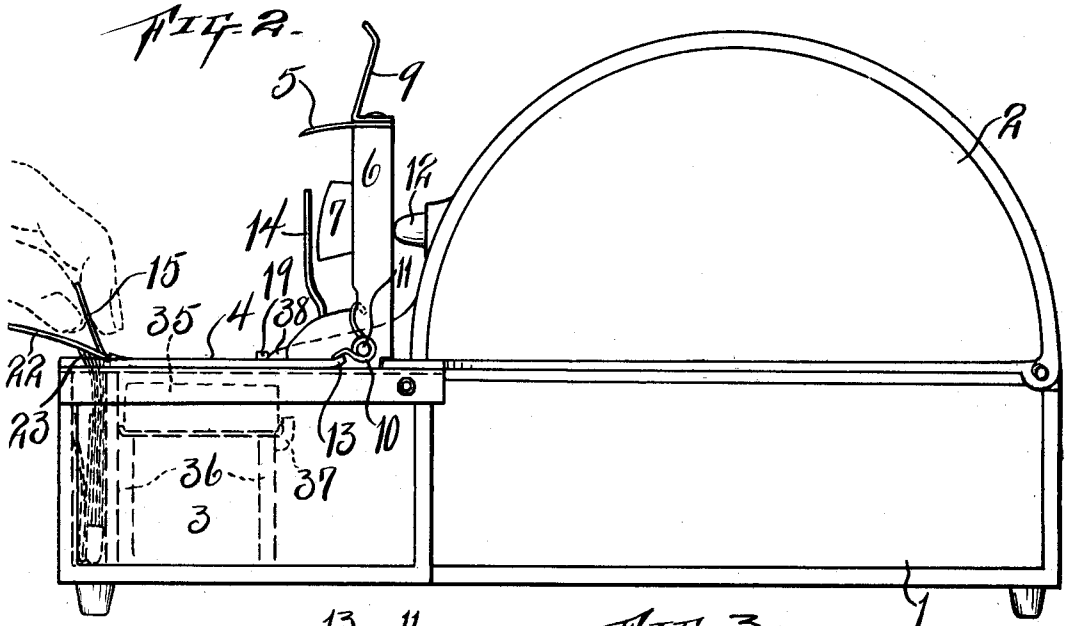



FIG. 3

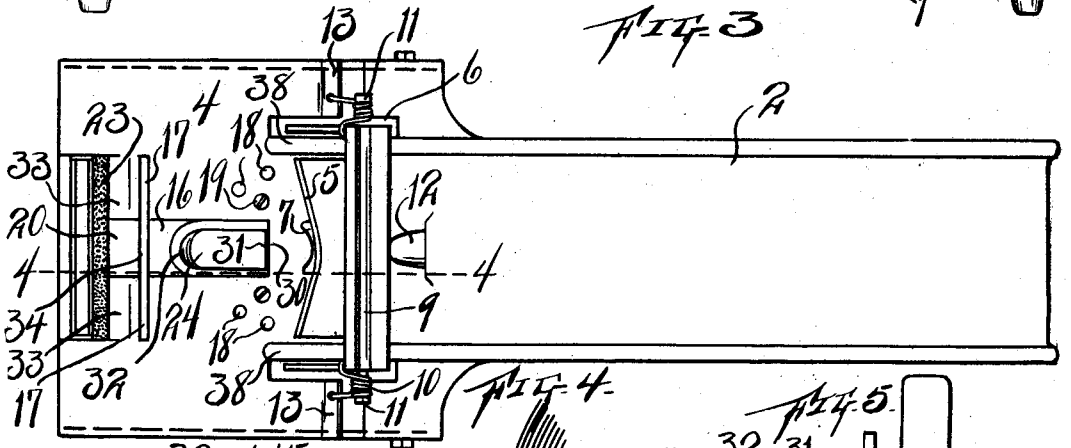



FIG. 4

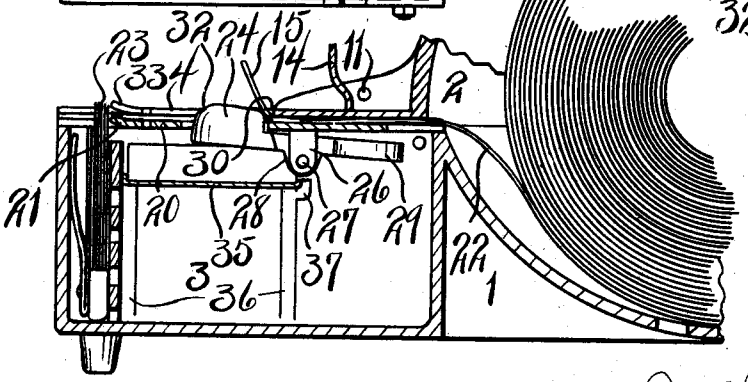
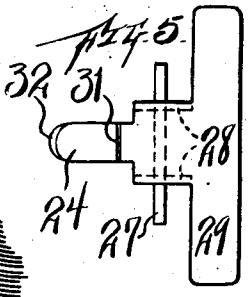



FIG. 5




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Patented June 26, 1928. 1,675,196

# UNITED STATES PATENT OFFICE.

WILLIAM A. UTTZ, SR., OF ST. LOUIS, MISSOURI.

## PACKAGE-SEALING MACHINE.

Application filed January 16, 1928. Serial No. 247,110.

My invention relates to package sealing machines and particularly to a gravity actuated tab lifter and friction device and to a swinging gravity-actuated plate for carrying various patented elements shown in the patent granted to me on June 21, 1927, No. 1,633,144; and the object is to provide certain improvements for operating the elements shown in said patent in a more economical and practical manner and to provide means for more quickly locating the strip of sealing paper relative to the guiding and cutting means. Advantages of the improvements are that the tabs are not torn off of the sealing strips and no time is lost in rethreading paper and in case of the paper adhering to the bearing plate or other parts the sealing strips can be quickly started without having to thread paper through the guiding and cutting devices.

Other objects and advantages will be fully explained in the following description and the invention will be more particularly pointed out in the claims.

Reference is had to the accompanying drawings which form a part of this application.

Fig. 1 is a perspective view of the improved machine.

Fig. 2 is a side elevation of the same.

Fig. 3 is a plan view of the same.

Fig. 4 is a broken sectional view showing the working parts.

Fig. 5 is a detail view of the gravity-actuated tab lifter and friction device.

Fig. 6 is a front edge view of the guide and stripper plate.

Fig. 7 is a front elevation of the machine with the cover partly broken.

Fig. 8 is a front edge view of the bearing plate and the bracket for supporting the tab lifter and friction device.

Fig. 9 is a plan view of the guide and stripper plate with the cutter frame omitted.

Fig. 10 is an inverted plan view of the bearing plate with the tab lifter and its pivot bolt omitted.

Similar characters of reference are used to indicate the same parts throughout the several views.

This machine contains a paper holding unit 1 which is provided with a hinged cover 2 and service unit 3. A guide and stripping plate 4 is formed integral with the cover 2 and this plate carries the cutter 5, frame 6 and tab cutter 7. A handle or lever 9 is carried by the frame 6. The frame 6 is hingedly connected to the plate 4 and springs 10 are mounted on the pivot or hinge bolt 11 to hold the cutter frame 6 in upright position against a rubber bumper 12 on the cover 2. Each spring 10 is mounted on a reduced portion of the bolt 11 and one end of the spring is caught on the front edge of a member of the frame 6 and the other end of the spring is caught on a lug 13 formed on the plate 4 and projected through a hole in the lug 13. In operation, the frame 6 with all of its attachments is thrust downwardly manually by means of handle 9 for cutting the required length of paper and also for cutting a tab in the unsevered portion of the paper. As soon as the handle 9 is released the frame 6 will be thrown by springs 11 back to normal or inoperative position. The tab cutter 7 and the knife 5 are attached to the frame 6. Guards 14 are carried by the plate 4 for the tab cutter 7 and the tab 15. The plate 4 has a large slot 16 for the passage of the tab cutter 7 and tab 15. The plate 4 has a narrow slot 17 for the passage of the cutter 5. This plate 4 has holes 18 for guide lugs 19 which are rigid with the bearing plate 20 which has the front edge curved slightly upwardly at the front to deflect the paper strip upwardly so that the paper strip will rise up over the moistening brush 23. The lugs 19 are both guiding lugs and screws for attaching the brackets which carry the tab lifter 24. The lugs 19 serve to center the plate 4 on the bearing plate 20 and also for guiding the paper strip 22. The lugs 19 can be changed to different positions for adjusting the same for paper strips of different widths. The bracket 25 is attached to the bearing plate 20 by the screw lugs 19. The bracket 25 has downwardly projecting bearing lugs 26 and the tab lifter 24 is pivotally mounted on these lugs 26. A pivot rod 27 projects through the tab lifter 24 and the lugs 26, the tab lifter 24 having downwardly projecting lugs 28 similar to lugs 26. The tab lifter 24 is actuated by a counter-balance weight 29. The weight 29 lifts the tab lifter 24 after a cutting operation. During a cutting operation, the top surface of the tab lifter 24 is flush with the upper surface of the bearing plate 20 and cannot go lower because the weight 29 bears against the underside of the bearing plate 20. The tab lifter thus form a part of the platform for the

cutting operation. After a cutting operation, the weight 29 throws the tab lifter upwardly and carries the tab 15 to upright position. The tab 15 is cut from the unsevered portion of the paper and serves as the means for drawing the paper forward for another cutting operation. The edge 30 of the plate 4 co-operates with the tab lifter 24 in bending the tab 15 upwardly at a sharp angle. The tab lifter 24 has a shoulder 31 which co-operates with the edge 30 for bending the tab 15 upwardly. The front end 32 is rounded or curved so that the thumb of the operator will not strike an abrupt or sharp edge in reaching to take hold of the tab. The front edge of the stripper plate has the front edge 33 slightly curved upwardly to co-operate the upturned edge 21 of the bearing plate 20. The bearing plate 20 has a slot 34 which registers with the slots 17 of the plate 4 for the passage of the cutter 5. The bearing plate 20 is hingedly connected to compartment 3.

The strips of paper are drawn across the slots 17 and 34 and the paper cutter 5 chops downwardly cutting the paper and passing through the slots 17 and 34. On the same stroke the tab cutter 7 cuts the tab 15. In this operation, fragments of the gummed paper will be torn from the strip of paper. It is necessary to keep such fragments out of the moistening liquid in order to prevent disagreeable odors and unsanitary conditions. For this purpose a trough or receptacle 35 is supported on ribs 36 in the compartment 3 and a lug 37 prevents backward movement of the trough. The fragments of paper can be removed as often as required.

To start operations, the stripping plate 4 is raised by means of the cover 2 and the paper strip is brought forward and placed on the bearing plate 20 between a pair of screw lugs 19 according to width of paper. Thereafter the paper is drawn forward by means of the tabs 15.

The paper lifter 24 serves as a friction device for the paper strip which is drawn along on the upper surface of the lifter 24. This prevents the paper from being drawn forwardly too freely and also gives the necessary friction to give the required tension in the paper strip 22 so that the paper will not be fed forward too freely. This friction will prevent accidental shifting of the paper forwardly or backwardly. The tab lifter 24 also serves to lock the tab 15 between the shoulder 31 and the edge 30 of plate 4. The tab lifter 24, being held by the weight 29, is yieldable and when the paper strip is being drawn forward the upper surface of the tab lifter becomes flush with the top of the bearing plate 20 and is held in this position by the weight 29. After the tab is cut, the lifter 24 rises upwardly and fills the opening in the paper from which the tab was cut, and holding the tab up so that it can be grasped by the operator's fingers. The tab 15 will not be forced down by the moist conditions of the atmosphere.

The forwardly projecting upstanding flanges 38 form bearings for the pivot bolt 11 and add strength to the plate 4 at its juncture with the cover 2.

What I claim, is,—

1. A package sealing machine comprising a compartment for paper rolls, a service compartment, a bearing plate for said service compartment, a cover for said paper roll compartment, a stripping plate integral therewith for co-operating with said bearing plate for guiding a paper strip, a paper cutter and a tab cutter carried by said stripping plate, and a tab lifter connected with said bearing plate.

2. A package sealing machine comprising a paper roll compartment and a service compartment, a bearing plate for said service compartment, a hinged cover for said paper roll compartment, a stripping plate integral with said cover co-operating with said bearing plate and held in place by the weight of said cover, and a knife for cutting tabs from the unsevered paper.

3. A package sealing machine comprising a paper roll compartment and a service compartment, a bearing plate hingedly connected to said service compartment, a hinged cover for said paper roll compartment, a stripping plate integral with said cover and co-operating with said bearing plate for guiding a strip of paper, a paper cutter, a tab cutter held in place by the weight of said cover, and guiding lugs rigidly adjusted on said bearing plate for centering said stripping plate on said bearing plate and co-operating with said plates for guiding the strip of paper.

4. In a package sealing machine provided with paper serving compartments; a hinged cover, a stripping plate carried by said cover for cooperating with said bearing plate for guiding a strip of paper and held in place by its own weight and the weight of said cover, and a knife for cutting tabs from the unsevered paper.

5. In a package sealing machine provided with paper serving compartments; a bearing plate and a swinging stripping plate held in place by its own weight and co-operating with said bearing plate for guiding a strip of paper, said stripping plate provided with a knife for detaching a strip of paper for service.

6. In a package sealing machine provided with a service compartment and a paper roll compartment and a hinged cover for the latter; a bearing plate for said service compartment, a swinging stripping plate carried by

said cover for co-operating with said bearing plate and held in place by the weight of said cover, and a knife for cutting tabs from the unsevered paper.

7. In a package sealing machine provided with a service compartment and a paper roll compartment and a hinged cover for the latter; a bearing plate hingedly connected to said service compartment, a swinging stripping plate carried by said cover and co-operating with said bearing plate and held in place by said cover, a tab cutter carried by said stripping plate, a tab lifter pivotally connected to said bearing plate and operable therethrough, said plates having slots for the passage of said tab cutter, and a counterbalance weight integral with said tab lifter and adapted to hold the upper surface of said tab lifter against the underside of a passing strip of paper and flush with the upper surface of said bearing plate for providing friction on the paper being carried by said plate and adapted to elevate a tab after it is cut from the unsevered portion of the strip of paper.

8. A package sealing machine having a paper supporting plate, a swinging stripping plate held down by its own weight and co-operating with said paper supporting plate, a knife for cutting tabs, and a gravity-actuated tab lifter operatively connected with said paper supporting plate and adapted to elevate the tab after a cutting operation.

9. A package sealing machine having a paper supporting plate, a swinging gravity-actuated stripping plate co-operating with said paper supporting plate, a tab cutter and a tab lifter, said plates having slots for the passage of a tab cutter and a tab lifter, and a gravity-actuated tab lifter operatively connected to said paper supporting plate and adapted to elevate a tab after a cutting operation, said stripping plate having the back edge of the slot therein adapted to co-operate with said tab lifter to bend said tab.

10. A package sealing machine having a paper supporting plate, a swinging gravity-actuated stripping plate co-operating with said paper supporting plate, a tab cutter, said plates having slots for the passage of the tab cutter and a tab lifter, and a gravity-actuated tab lifter operatively connected to said paper supporting plate and adapted to elevate a tab after a cutting operation, said stripping plate having the back edge of said slot adapted to co-operate with said tab lifter and said tab lifter having a shoulder co-operating with said edge.

11. In a package sealing machine provided with paper serving compartments; a paper supporting plate and a swinging stripping plate co-operating with said paper supporting plate for guiding a strip of paper, said plates having their front edges curved upwardly to start the strip of paper upwardly out of the machine.

12. A package sealing machine having a swinging gravity-actuated cover and a stripping plate carried by said cover, a bearing plate co-operating with said stripping plate, a bumper carried by said cover, a frame carrying paper cutters pivotally connected to said cover and limited in its backward movement by said bumper, a handle for actuating said frame, and springs operatively connected to said stripping plate and to said frame for bringing said frame back to normal position after a cutting operation.

13. A package sealing machine having a swinging gravity-actuated cover and a stripping plate carried by said cover, a bearing plate co-operating with said stripping plate, a frame carrying paper cutters pivotally connected to said cover, a bumper carried by said cover to limit the backward movement of said frame, a handle for oscillating the frame in a cutting operation, a pivot shaft forming the pivoting means for connecting said frame to said cover and provided with reduced members projecting beyond the sides of said cover and annular shoulders on the ends thereof, and springs mounted on said reduced members and each spring having one end caught on said frame and the other end connected to said stripping plate.

14. A package sealing machine having a swinging gravity-actuated cover provided with forwardly projecting bearing flanges and a stripping plate carried by said cover and provided with slightly upturned lugs disposed laterally of said flanges, a bearing plate co-operating with said stripping plate, a frame carrying paper cutters, a pivot shaft connecting said frame to said flanges and provided with reduced members projecting beyond said flanges and annular shoulders on the ends thereof, springs mounted on said reduced members and each spring having one end caught on said frame and the other end caught in one of said upturned lugs for returning said frame to normal position after a cutting operation and said shaft being held by said springs against lateral movement, a bumper on said cover to limit the backward movement of said frame, and a handle for actuating said frame.

15. A package sealing machine having a compartment for paper rolls, a compartment for stripping and serving paper strips, means for cutting strips of paper to be severed, and a receptacle mounted in said paper stripping and serving compartment for gathering fragments of paper.

In testimony whereof, I set my hand, this 11th day of January, 1928.

WILLIAM A. UTTZ, SR.