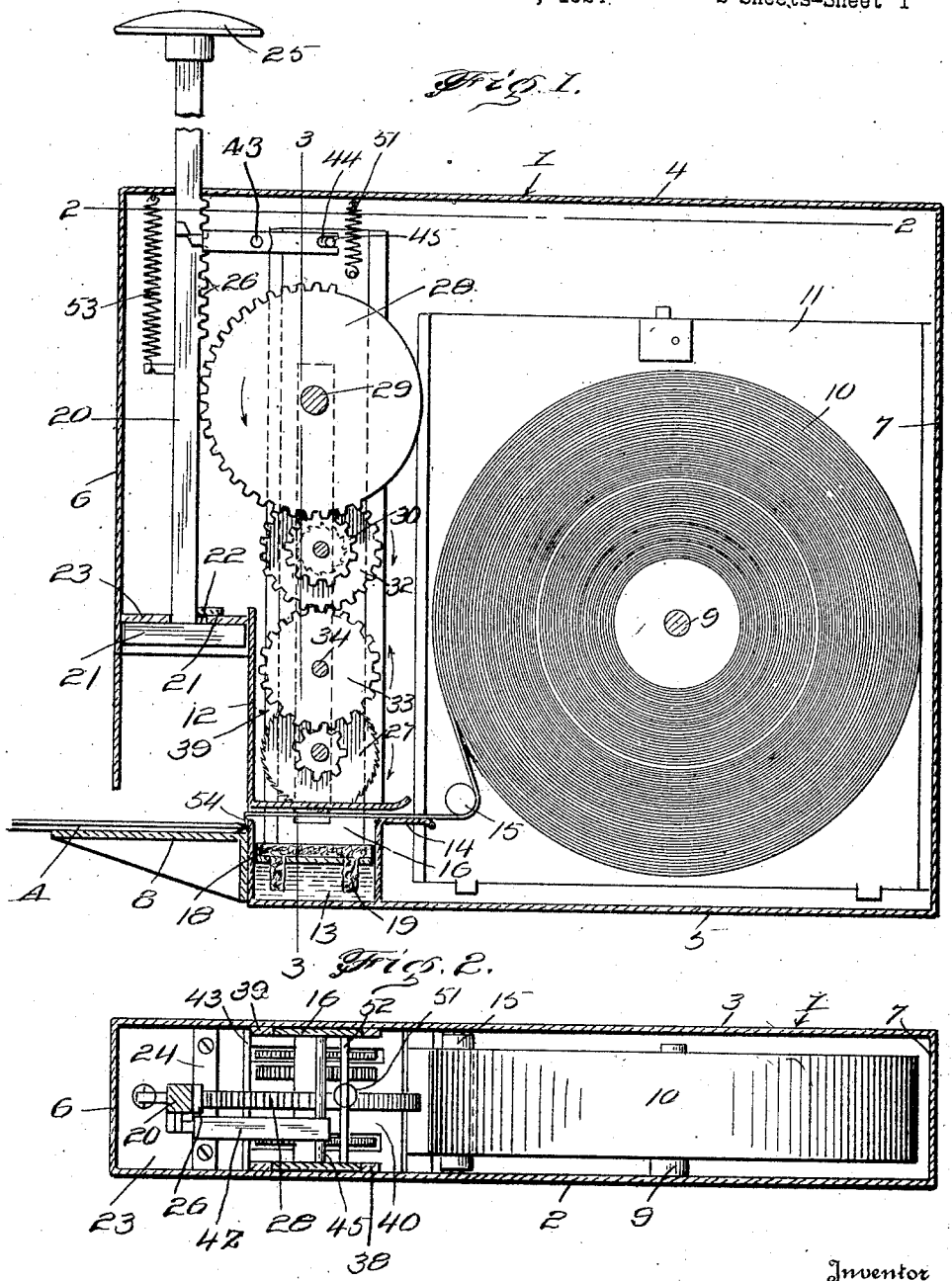
April 28, 1925.

1,535,598

R. J. GENGLER

STAMP AFFIXING DEVICE

Filed June 4, 1924. 2 Sheets-Sheet 1



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Filed June 4, 1924 2 Sheets-Sheet 2

Fig 3.

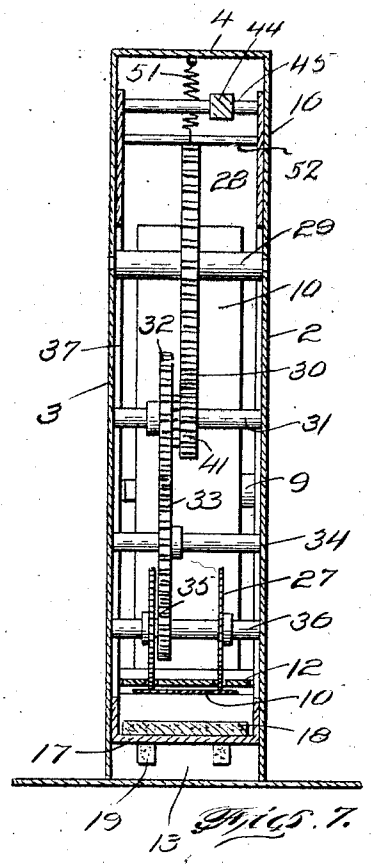


Fig. 4.

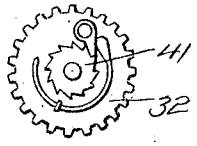


Fig. 5.

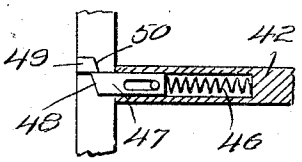


Fig. 6.

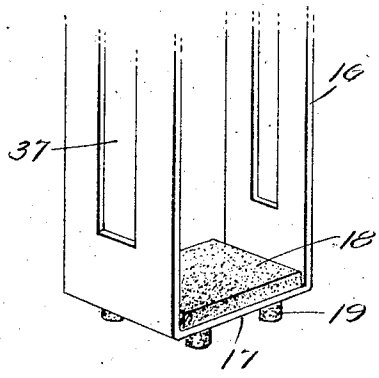
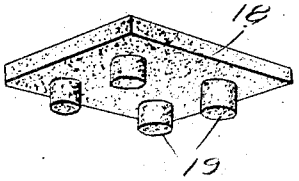


Fig. 7.



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UNITED STATES PATENT OFFICE.

RAYMOND J. GENGLER, OF AKRON, OHIO.

STAMP-AFFIXING DEVICE.

Application filed June 4, 1924. Serial No. 717,859.

To all whom it may concern:

Be it known that I, RAYMOND J. GENGLER, a citizen of the United States, residing at Akron, in the county of Summit and State of Ohio, have invented certain new and useful Improvements in a Stamp-Affixing Device, of which the following is a specification.

This invention relates to new and useful improvements in stamp affixing devices and has for its principal object to provide a simple and efficient means for affixing stamps to envelopes, cards or the like and wherein means is provided for feeding, moistening and severing a stamp from a continuous strip in roll form by the operation of a manually actuated plunger.

A further object of the invention is to provide a stamp affixing device of the above mentioned character, wherein the moistening device is normally disposed below the under face of the stamp, the upper face of which is engaged by a feeding means, a manually operated plunger being provided for simultaneously operating the feeding means and bringing the moistening device into contact with the under face of the stamp upon the down stroke of the plunger, a table being provided adjacent the feeding means and below the plunger for supporting an envelope whereby the stamp may be moved into position over a portion of the envelope and affixed thereto upon the down stroke of the plunger.

A still further object of the invention is to provide a stamp affixing device of the above mentioned character, which is simple in construction, inexpensive, strong and durable and furthermore adapted for the purposes for which it is designated.

Other objects and advantages of this invention will become apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals designate like parts throughout the same;

Figure 1 is a vertical sectional view of my improved stamp affixing device.

Figure 2 is a sectional view taken approximately on line 2—2 of Figure 1.

Figure 3 is a sectional view taken on line 3—3 of Figure 1.

Figure 4 is a detail view of one of the gear wheels with the ratchet means associated therewith.

Figure 5 is a fragmentary detail sectional view of the trip means associated with the plunger, and the upper portion of the moistening pad supporting frame.

Figure 6 is a fragmentary detail perspective view of the lower portion of the moistening pad supporting frame, and the moistening pad positioned therein, and

Figure 7 is a detail perspective view of the moistening pad.

In the drawings wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 1 designates generally the casing of my improved stamp affixing device and the same comprises the side walls 2 and 3 respectively, the top 4, the bottom 5 and the front and rear end sections 6 and 7 respectively. The lower portion of the front end section 6 of the casing is cut away and supported in the cut away portion is the table 8 the purpose of which is to provide a means for receiving and supporting an envelope or card upon which a stamp is to be affixed. Rotatably supported on the shaft 9 in the rear portion of the casing is the roll of stamps 10, the same being a continuous strip of single stamps which are connected together by perforations in the manner well known in the art. For the purpose of enabling the insertion of another roll of stamps within the casing, one of the side walls of the casing is provided with a hinged door such as is illustrated at 11.

Supported between the side walls 2 and 3 respectively and arranged adjacent the forward end section 6 and the base 5 is the substantially L-shaped plate 12. The upstanding portion thereof is spaced from the lower portion of the forward end section 6 whereby a guide means is provided for the reciprocatory movement of the plunger, the construction of which will hereinafter be more fully described. The base portion of the L-shaped member 12 is spaced from the bottom 5 of the casing and is disposed above the fountain or reservoir 13 and the lower portion of the moistening pad supporting frame in the manner clearly illustrated in Figure 1 of the drawings. The fountain or reservoir 13 is provided with a rearwardly extending lip 14 which cooperates with the rear portion of the base portion of the L-shaped member 12 in forming a guide for receiving the free end of the strip of stamps and furthermore cooperates with the guide

roller 15 under which the strip of stamps is adapted to pass. The roller 15 has its ends journaled in the side walls of the casing in the manner clearly illustrated in Figure 2 of the drawing. Adapted for reciprocatory movement in the forward portion of the casing 1 and disposed vertically above the fountain or reservoir 13 is the substantially U-shaped frame designated generally by the numeral 16. The base portion 17 of the U-shaped frame 16 supports thereon the absorbing pad 18 and the latter is provided with downwardly extending portions 19 in the manners clearly illustrated in Figure 7 of the drawings. The downwardly extending portions 19 of the absorbing pad 18 are adapted to extend through suitable openings provided in the base portion of the U-shaped frame and extend into the liquid contained within the fountain or reservoir 13 in the manner clearly illustrated in Figure 1. The liquid within the reservoir may be either water or a thin mucilage and it may be readily seen that by capillary action the pad 18 will be absorbed with the liquid through the medium of the depending portions 19 so that the gummed faces of the stamp will be moistened and the same passed over the fountain when the frame is raised in the manner hereinafter to be more fully described.

Extending vertically in the forward end of the casing 1 and adapted for reciprocal movement therein is the manually operated plunger 20. The lower end of the plunger 20 is provided with a presser foot 21 and the latter is adapted to operate between the forward end section 6 and the upstanding portion of the L-shaped member 12 in the manner as is obvious from the construction as illustrated in Figure 1. The lower portion of the plunger is adapted to pass through a suitable opening 22 provided in the plate 23 which extends between the upper portion of the L-shaped member 12 and the forward end section 6 and to further prevent the rotary movement of the plunger, the strip 24 is secured on the plate 23 and the same engages one of the side faces of the plunger. The plunger is preferably rectangular in cross section as is clearly illustrated in Figure 2. The upper portion of the plunger extends through the top 4 of the casing 1 and a suitable handle 25 is provided thereon for operating the same.

Rack teeth 26 are provided on one of the side faces of the plunger and the same are adapted to operate a train of gearing for the purpose of operating the feeding means 27. The train of gearing comprises the segmental gear 28 which is adapted to mesh with the rack teeth 26, the shaft for supporting the segmental gear 28 being illustrated at 29. The segmental gear meshes with gear wheels 30 mounted on the shaft 31, the latter being in vertical alignment with the shaft 29 and extending between the side walls 2 and 3 of the casing 1 in the manner clearly illustrated in Figure 3. A gear wheel 32 is also supported on the shaft 31 and is adapted to drive the gear wheel 33 mounted on the shaft 24 also supported in vertical alignment with the aforementioned shaft and being disposed below the same. The gear wheel 33 is adapted to drive the gear wheel 35 supported on the shaft 36 and on which are mounted the spaced feeding rollers 27.

As is illustrated more clearly in Figures 1 and 3 of the drawings, the arms of the substantially U-shaped frame 16 which supports the moistening pad 18 are provided with the longitudinally extending registering slots 37 whereby the shaft which supports the various gear wheels comprising the train of gears may extend therethrough so as not to interfere with the reciprocal movement of the frame. The frame is adapted to operate in the casing between the guide strips 38 and 39 respectively provided on each side of the casing for cooperation with the side edges of the arms of the U-shaped frame.

The feed rollers 27 are adapted to extend through suitable slots or openings 40 provided in the base portion of the L-shaped member 12 so as to engage the upper faces of the stamps for feeding the same outwardly onto the envelope A which is supported on the table 8. For the purpose of preventing backward movement of the strip of stamps as the plunger moves upwardly in the casing, the ratchet mechanism such as illustrated generally at 41 in the drawings with reference more particularly to Figure 4 is associated with one of the gear wheels in the train of gearing.

For the purpose of actuating the U-shaped frame 16 simultaneously with the down stroke of the plunger 20 so that the moistening pad 18 may come in contact with the under surface of the stamp disposed over the fountain, I provide the lever 42 which is pivotally supported as illustrated at 43 intermediate its ends in the casing adjacent the upper forward end thereof and the rear end of the lever is forked as illustrated at 44 for engagement with the pin 45 which extends transversely across the upper ends of the arms of the U-shaped frame 16 in the manner illustrated in Figures 2 and 3. The forward end of the lever is provided with a socket 46 and a spring pressed finger 47 extends outwardly therefrom.

The spring pressed finger 47 is provided with a beveled face 48 and normally the same is disposed below the lug 49 supported on the plunger 20 adjacent the upper portion thereof and which is also provided with

a beveled face 50. A coil spring 51 has one end thereof fastened to the top 4 of the casing and its opposite end fastened to a suitable pin 52 extending transversely across the upper ends of the arms of the U-shaped frame for normally holding the same in an upward position. A coil spring 53 is associated with the plunger 20 for normally holding the same in its upward position within the casing 1.

The operation of my improved stamp affixing device may be briefly stated as follows: An envelope or the like upon which a stamp is to be affixed is placed on the table 8 in the manner illustrated in Figure 1 and by pressing downwardly upon the plunger by means of the handle 25, the rack teeth 26 will engage the segmental gear 28 and by means of the train of gearing heretofore described, the feeding rollers 27 will feed a stamp outwardly so that a stamp is positioned over a portion of the envelope on the table. Simultaneously with the downward movement of the plunger 20, whereby the feeding rollers 27 are brought into operation, the lugs 49 on the plunger will engage the fingers 47 of the lever 42 and cause the same to swing on its pivot 43 whereby the forked end of the lever will raise the U-shaped frame 16 through the medium of the transversely extending pin 45 and cause the absorbent pad 18 to moisten the gummed face of the stamp which is disposed over the fountain or reservoir.

As the plunger moves on its downward stroke, the presser foot 21 will have its rear end portion cooperating with shear plates or blades 54 supported on the upper forward portion of the reservoir 13 adjacent the table 8 whereby the stamp may be severed along its perforated edge and to enable the presser foot to affix the moistened stamp to the envelope or other article on the table 8. When the handle 25 is released the spring 53 will cause the same to be returned to its normal position and as the plunger moves upwardly within the casing, the beveled face 50 of the lugs 49 will engage the beveled face 48 of the finger 47 causing the same to ride thereover and again be positioned over the finger 47 in the manner clearly illustrated in Figures 1 and 5 of the drawings.

It will be seen from the foregoing description, that a stamp affixing device has been provided which is very simple in construction, inexpensive, strong and durable and the parts further so arranged as to enable the same to be readily accessible at all times. Furthermore a stamp affixing device of the character above described will be positive and efficient in its operation and will save considerable time in affixing stamps to envelopes, cards, or the like.

While I have shown the preferred embodiment of my invention, it is to be understood that various changes in the size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention and the scope of the appended claims.

Having thus described the invention, what I claim is:—

1. A stamp affixing device comprising a casing, an envelope receiving table, a vertically disposed spring controlled plunger arranged over said table, stamp feeding means, a train of gearing connected to the stamp feeding means and operable by said plunger, a fountain below said feeding means and adjacent said table, a moistener normally within said fountain, and means for raising the moistener into engagement with a stamp over the fountain upon the downward movement of the plunger, said means comprising a substantially U-shaped frame adapted to support said moistener in the base portion thereof, a lever pivotally supported in said casing and connected at one end to the upper portion of the frame, and a trip carried by said plunger for actuating the opposite end of the lever whereby the frame and moistener are simultaneously raised upon the down stroke of the plunger.

2. A stamp affixing device comprising a casing, an envelope receiving table, a vertically disposed spring controlled plunger arranged over said table, stamp feeding means, a train of gearing connected to the stamp feeding means and operable by said plunger, a fountain below said feeding means and adjacent said table, a moistener normally within said fountain, means for raising the moistener into engagement with a stamp over the fountain upon the downward movement of the plunger, said means comprising a substantially U-shaped frame adapted to support said moistener in the base portion thereof, a lever pivotally supported in said casing and connected at one end to the upper portion of the frame, a trip carried by said plunger for actuating the opposite end of the lever whereby the frame and moistener are simultaneously raised upon the down stroke of the plunger, and means for returning the plunger and frame carrying the moistener to their normal positions.

3. A stamp affixing device comprising a casing, an envelope receiving table, a vertically disposed plunger adapted for reciprocatory movement in the casing and arranged above the table, rack teeth provided on the plunger, stamp feeeding means, a train of gearing connected to the feeding means and operable by the rack teeth on said plunger, a reservoir, a moistener normally disposed therein, a carrier for said moistener, guide means for said carrier, and means associated with said plunger and said carrier for raising the latter simultane-

ously upon the down stroke of the plunger to move the moistener into engagement with a stamp disposed over the reservoir.

4. A stamp affixing device comprising a casing, an envelope receiving table, a vertically disposed plunger adapted for reciprocatory movement in the casing and arrange above the table, rack teeth provided on the plunger, stamp feeding means, a train of gearing connected to the feeding means and operable by the rack teeth on said plunger, a reservoir, a moistener normally disposed therein, a carrier for said moistener, guide means for said carrier, and means associated with said plunger and said carrier for raising the latter simultaneously upon the down stroke of the plunger to move the moistener into engagement with a stamp disposed over the reservoir, and means for returning the plunger, the moistener and the carrier therefor to their normal positions.

5. A stamp affixing device comprising a casing, an envelope receiving table, a vertically disposed plunger adapted for reciprocatory movement in the casing and arranged above the table, rack teeth provided on the plunger, stamp feeding means, a train of gearing connected to the feeding means and operable by the rack teeth on said plunger, a reservoir, a moistener normally disposed therein, a carrier for said moistener, guide means for said carrier, means associated with said plunger and said carrier for raising the latter simultaneously upon the down stroke of the plunger to move the moistener into engagement with a stamp disposed over the reservoir, means for returning the plunger, the moistener and the carrier therefor to their normal positions, and cutting means for severing a stamp from a strip upon the downward movement of the plunger.

6. A stamp affixing device comprising a casing, an envelope receiving table, a vertically disposed plunger adapted for reciprocatory movement in the casing and arranged above the table, rack teeth provided on the plunger, stamp feeding means, a train of gearing connected to the feeding means and operable by the rack teeth on said plunger, a reservoir, a moistener normally disposed therein, a carrier for said moistener, guide means for said carrier, means associated with said plunger and said carrier for raising the latter simultaneously upon the down stroke of the plunger to move the moistener into engagement with a stamp disposed over the reservoir, means for returning the plunger, the moistener and the carrier therefor to their normal positions, and means for preventing the backward movement of the strip of stamps.

In testimony whereof I affix my signature.

RAYMOND J. GENGLER.