

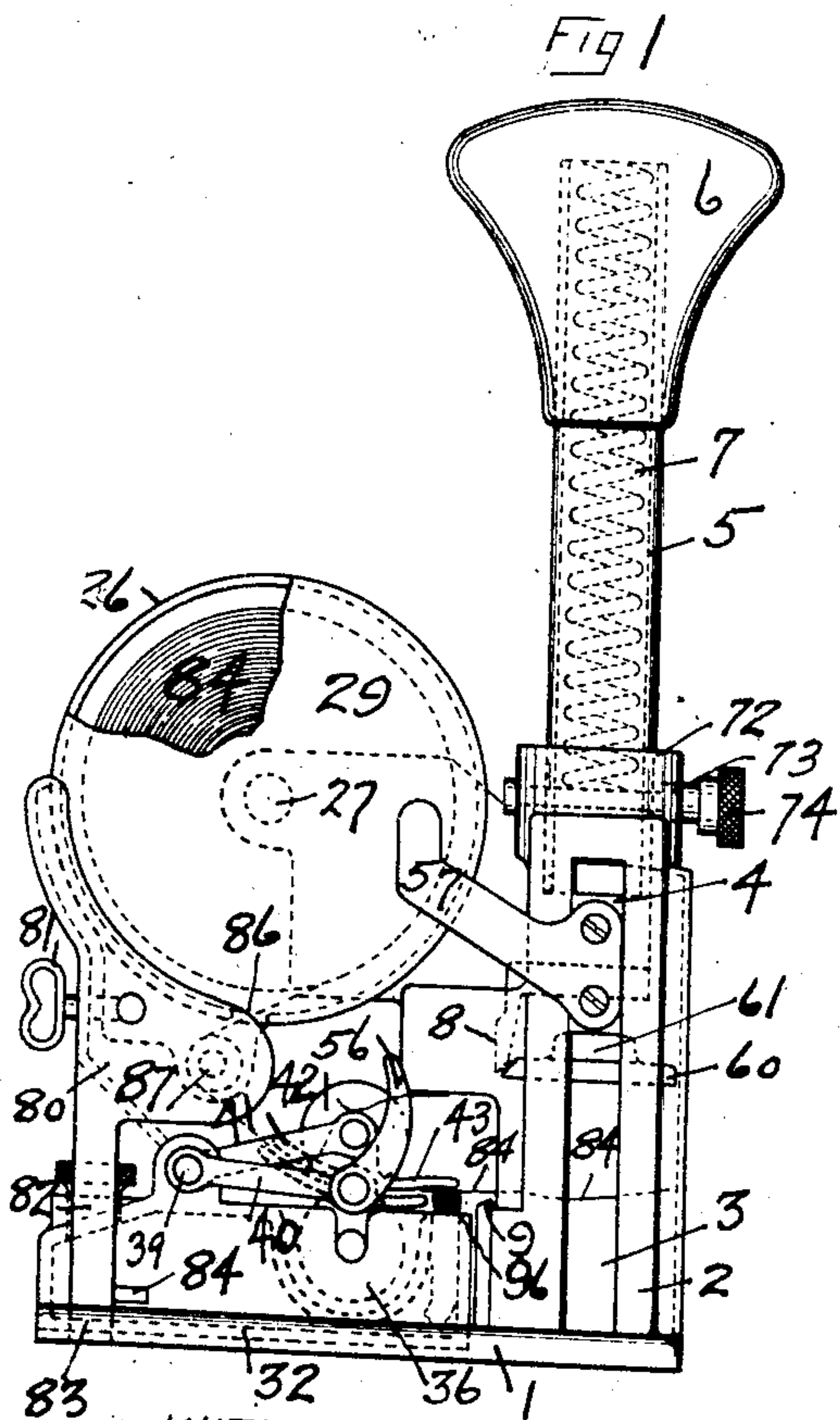
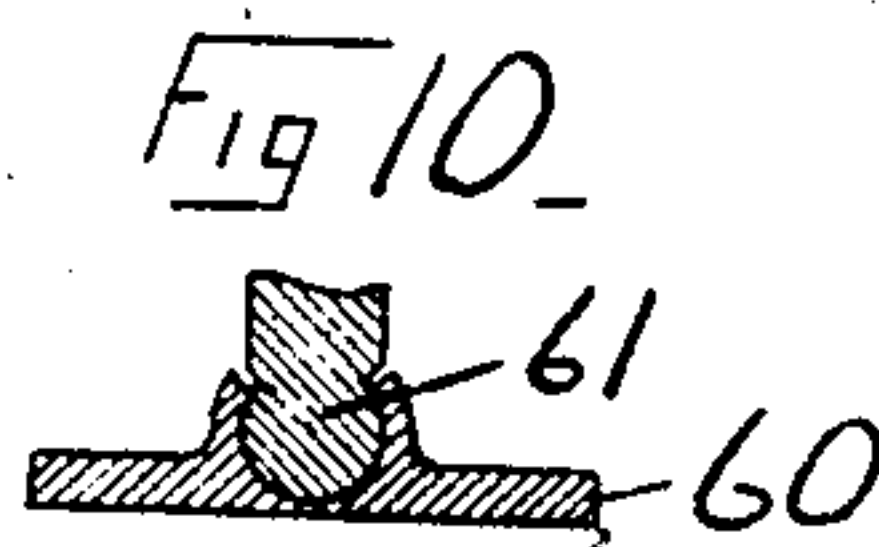
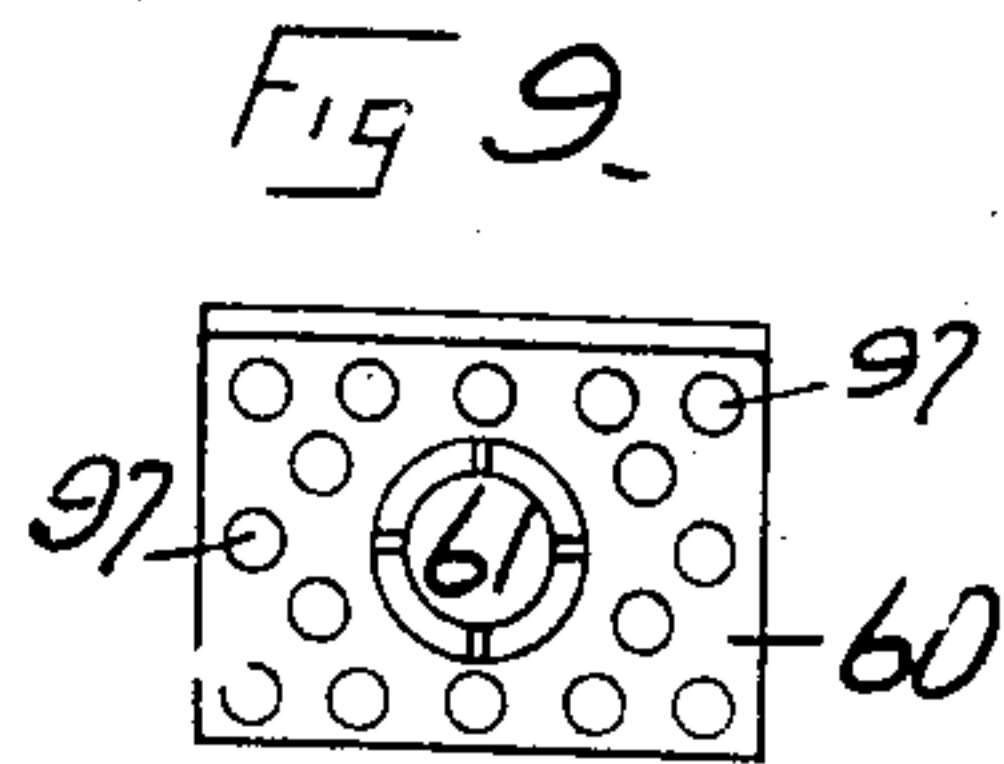
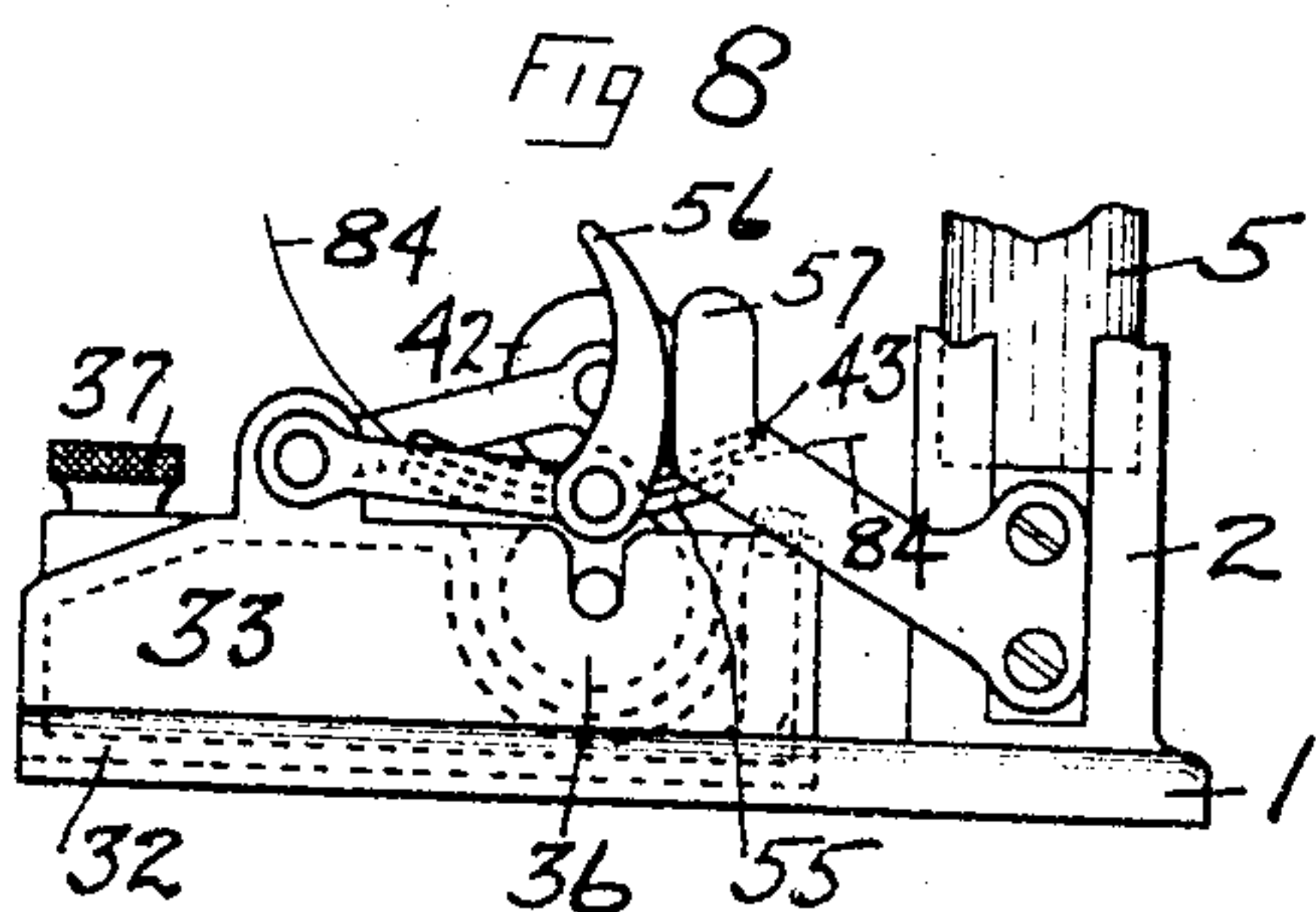
C. J. FANCHER & J. H. BURT.
MACHINE FOR AFFIXING STAMPS AND LABELS.

952,439.

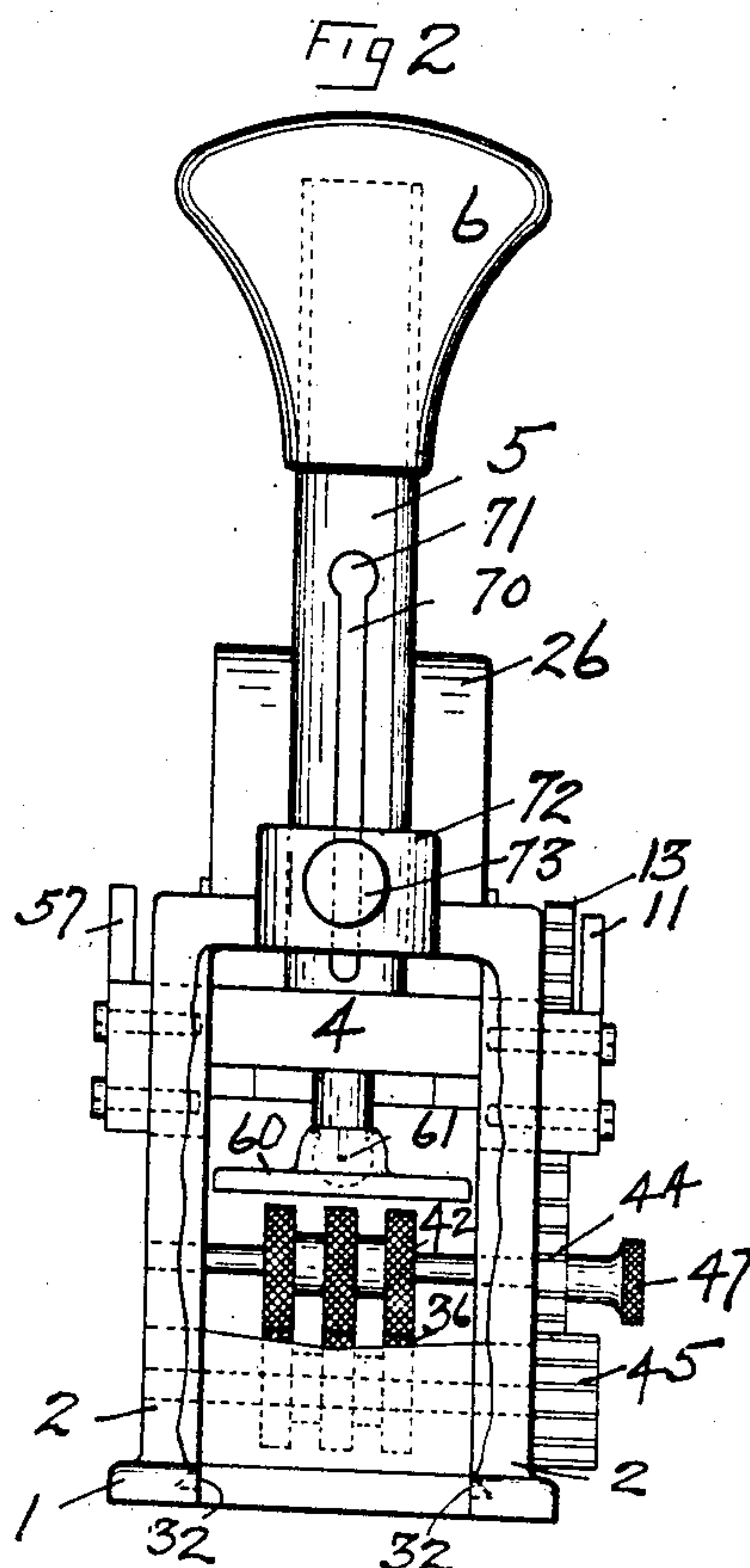
APPLICATION FILED JUNE 7, 1909.

Patented Mar. 15, 1910.

2 SHEETS--SHEET 1.



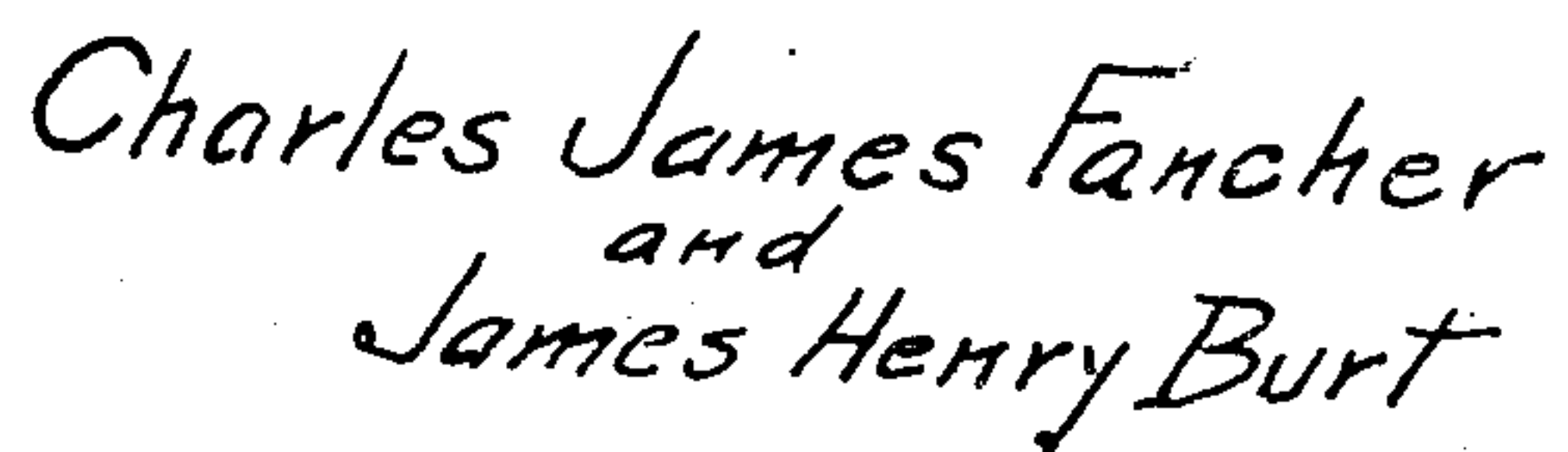
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2 SHEETS--SHEET 2.



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UNITED STATES PATENT OFFICE.

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MACHINE FOR AFFIXING STAMPS AND LABELS.

952,439.

Specification of Letters Patent: Patented Mar. 15, 1910.

Application filed June 7, 1909. Serial No. 500,734.

To all whom it may concern:

Be it known that we, CHARLES JAMES FANCHER, residing in Thompsonville, town of Enfield, county of Hartford, State of Connecticut, and JAMES HENRY BURT, borough of Brooklyn, county of Kings, State of New York, both citizens of the United States, have invented certain new and useful Improvements in Machines for Affixing Stamps and Labels, of which the following is a full, clear, and exact description.

The invention relates to a certain new and useful, hand-portable machine, in which the stamps or labels are fed from a roll, moistened, severed and pressed into engagement with the object on which it is desired to be affixed, and has for its object the provision of an improved device of this character from which the stamps can not be stolen.

A further object is to provide a feeding and guiding means so that the stickers will not come in contact with the moistener when the machine is not in use.

The foregoing and other features of our invention will now be described in connection with the accompanying two sheets of drawings forming part of this specification, in which we have represented our machine for affixing stamps or labels in the preferred form, after which we shall point out more particularly in the claims those features which we believe to be new and of our own invention.

The invention accordingly consists in the features of construction, combination of elements, and arrangement of parts, which will be exemplified in the mechanism hereinafter described and the scope of the application of which shall be indicated in the claims.

Referring to the accompanying drawing in which similar characters of reference indicate like parts throughout the several views, Figure 1 is a side elevation of our hand stamp or label affixer, constructed in accordance with the invention. Fig. 2 is an end elevation, (right-hand end of Fig. 1) with front broken away exposing the internal mechanisms. Fig. 3 is a side elevation opposite to that which is shown in Fig. 1, the plunger being depressed in its normally lowest position and locked. Fig. 4 is an end elevation the same as Fig. 2, with the plun-

ger in its normally lowest position. Figs. 55 5, 6 and 7 are details of our tank and wetting device. Fig. 8 shows a detail of cam for actuating the guide-way. Figs. 9 and 10 are details of our presser foot and universal joint. Fig. 11 is a detail of the upper spring-actuated guiding surface. Figs. 12 and 13 are details of the three-tooth ratchet.

In our invention we employ a base 1, provided with upright members 2, said upright members having vertical ways 3 formed therein. Slidably mounted in these ways is a cross-head 4 carried on the lower end of the plunger 5 mounted in bearing 72 at the top of the upright members 2, and is provided with a handle or knob 6. The cross-head is held in its normally highest position by the spring 7 which is contained in the plunger 5. Carried on the cross-head is a knife 8 which is pivotedly mounted thereto and operates against a cutting edge 9 mounted on the base 1. Mounted on the cross-head 4 is an arm 10 provided with a rack 11 which meshes with teeth of the segmental gear 12, pivotedly mounted at 14 to the uprights 2. As these features are well known, it is not thought necessary to further describe the same, and we do not wish it understood that we make claim to any of the features therein.

Mounted on the stud 14 is a gear 13 on the rear face of which is secured a three-tooth ratchet 15. On the hub of the gear 13 rides a segmental gear 12, as will be readily understood by referring to Figs. 12 and 13. The segmental gear 12 is provided with an extension or lip 16 on which is mounted a spring pawl 17 at 18. This spring pawl is adapted to ride on the teeth of the gear 13 and has for its object to drive the gear 13 intermittently and in one direction. Pivoted to the uprights 2 at 19 is a pawl 20 adapted to engage at 21 the three-tooth ratchet 15. On the tail of this pawl is projection 22 which is normally in the path of a nose 23 mounted on the arm 10. Also pivotally mounted at 19 is a spring-actuated pawl 24 adapted to engage the teeth of the gear 13 and hold, in locked position, the said gear. The object of this pawl is to prevent the gear 13 revolving in the opposite direction in which it is intended to travel. The engagement of the rack 11 with the teeth of

the segmental gear 12 is so timed, with relation to the striking of the tail 22 by the nose 23, that the pawl 20 is thrown out of engagement with the three-tooth ratchet 15, permitting the gear 13 to be revolved by the ratchet 11 on its up-stroke.

On the right-hand upright 2 is a wing 25 provided to carry the stamp reel 26 pivoted at 27. The reel is held from revolving by a pin 28, which also serves as a stop pin for the segmental gear 12, as will be readily understood by referring to Fig. 3. The other side of the stamp reel is inclosed by a cover 29. Pivoted to the wing 25 at 30, we provide an idler gear 31, the teeth of which are in mesh with the teeth of gear 13.

In the base 1, we provide horizontal ways 32 in which is slidably mounted the tank 33, details of which are shown in Figs. 5, 6 and 7. In the forward end of the tank 33 we provide a semi-circular chamber 34 in which revolves the lower feed roll 36, without coming in contact with the liquid for moistening the stamps or labels. Just forward of this chamber 34 we provide a felt or wick 36, which extends down to the moisture chamber or tank. Water or mucilage may be put in this chamber through the opening 37, provided for the purpose. This tank is provided with slides 38 which fit into the ways 32 of the base 1. Pivoted at 39 are two yokes 40 and 41. 40 carries the lower guide plate 55, details of which will be more fully explained later. 41 carries the upper feed roll 42 and upper guide plate 43. The guide plate 43 is spring-actuated, the object of which is to hold the stamp or sticker in contact with the moistening pad while the same is being advanced for use, and thereby receiving the necessary moisture or mucilage. On the outer end of the upper feed roll 42, we provide a gear 44, the teeth of which mesh with the teeth of the idler gear 31 and also mesh with the teeth of gear 45 on the extreme outer end of the lower feed roll. The lower feed roll 36 is mounted on a shaft journaled in the tank at 46. See Fig. 6.

In order to regulate the feed of the stamps with relation to the cutting mechanism, we provide a knob 47 attached to the gear 44, which is slidably mounted on the shaft of the upper feed roll so that the teeth of the gear 44 may be drawn out of engagement with the teeth of the idler gear 31 and a portion of the turn made to regulate the stamp feed. To prevent the turning of this gear 44, more than one tooth at a time, we provide a spring-actuated pawl 49 pivoted to the tank 33 at 50. The pawl 49 is provided with a nose 51 which engages the teeth of the gear 44 and two limiting arms 52 which straddle the pin 53, as will be readily understood by referring to Fig. 3, which prevents the gear from turning more than

one tooth at a time. It will be readily understood, if this means were not provided it would be easy to turn the feed rolls and take out all of the stamps inclosed in the reel 26 at will. In the yoke 40 is pivotally mounted the lower guiding face 55 provided with slots through which the feed rolls pass. On the extreme left-hand of this pivoted shaft is a cam 56, adapted to be rocked by a projection 57 mounted on the cross-head 4. When the reciprocating plunger 5 is in its normally lowest position, the lower guide surface 55 is rocked against the upper guiding surface 43 and the stamp or sticker is thereby raised from the wick, as will be readily understood by referring to Fig. 8. This prevents the moisture from being absorbed by the paper of the sticker or stamp.

The front of the stamp affixer is closed, as shown in Fig. 4, which prevents the ready access to the stamps and makes it less liable for the stamps to be stolen. Below the cross-head 4 we provide a head or presser foot 60 mounted on a universal joint 61 to the reciprocating plunger 5. The base of this head is provided with a plurality of holes 97, the object of which is to allow the air to exhaust on a quick stroke of the plunger and prevent the stamps from being blown out of position, and also as a means of providing a suction to hold the stamp against the foot until pressed in place on envelop or package. In the plunger 5 we provide a slot 70. The upper end terminates in a round hole 71. The upper end of the uprights 2 is a bearing 72 in which the reciprocating plunger slides. Through this bearing is a slidable pin 73 provided with a head 74. This pin slides in the slot 70 in the plunger 5 and when the plunger is in its lowest position it can be pushed in the hole 71, thereby locking the plunger in its lowest position. This is desirable when the stamp affixer is not in use, as it keeps the stamps or stickers off the wick.

To keep the tank in its proper place, and also to hold on the cover 29 to the stamp reel 26, we provide a guard 80 which is locked into position by any well-known means operated by a key 81 which may be removable. The guard 80 has two arms 82 which straddle the tank 33 on either side, and engage slots 83 in the base 1, and press up against a lug 84 on the tank 33. When the guard is locked in position it is impossible to extract any stamp unless it is operated in the proper manner and when the moistened stamp or sticker is pressed on to the envelop or package for which it is intended.

To load the machine, a roll of stamps or stickers 84 are put into the reel 26 and threaded through slot 86 and over idler 87 between the upper guide plate 43 and the lower guide plate 55 over the wetting wick

96, as will be readily seen by referring to Fig. 1. The tank 33 is placed in position and the cover 29 on the reel and the guard 80 locked home by the means of the key 81.

5 By turning the knob 47 the stamps or stickers are adjusted with respect to the cutting edge 9 and the machine is ready for operating. On the upstroke the advancing mechanism feeds the stamp or sticker over
10 the moistening and cutting edge and is severed by the knife on the downward stroke. The presser foot secures the stamp on the envelop or package and the operation is complete. When not in use the reciprocating plunger is locked in lower position by
15 the pin 73 and the stamps are held away from the moistener, as shown in Fig. 8.

Having thus fully described our invention, what we claim as new and desire to secure by
20 Letters Patent is,—

1. In a stamp or label affixer, a reciprocating plunger, in combination with means for advancing the stamps over a moistening pad, and means actuated by the plunger for
25 raising the stamps away from the moistening pad while the plunger is in its normally lowest position.

2. In a stamp affixer, a vertically movable plunger having a presser head mounted upon
30 a universal joint, said head provided with a plurality of holes.

3. In a stamp affixer, a frame provided with vertical and horizontal ways, a reciprocating plunger mounted in the vertical
35 ways, a stamp reel comprising a cylindrical casing closed at one end and mounted on the frame, a cover adapted to inclose the said casing, a moistening chamber mounted in the horizontal ways and a key-controlled
40 locking means adapted to hold the moistener in the ways and the cover on the cylindrical casing.

4. In a machine of the class described, the combination with a frame, of a moistening
45 or mucilaging receptacle removably mounted in said frame provided with a semi-circular chamber and a wetting wick, feeding rolls mounted in said chamber, a vertically

movable stamp-pressing member, a knife carried by the stamp-pressing member and 50 a second knife mounted on before-mentioned frame; means actuated by the vertically movable member to rotate the feeding rolls and means carried by the vertically movable member to control the motion of the 55 feeding rolls.

5. In a machine of the class described, in combination a reciprocating stamp-pressing member, a feeding mechanism, means for controlling the length and time of feed, 60 means carried by the reciprocating member for actuating the controlling means coincident with the feed.

6. In a device of the character described, the combination with a frame of a moisten- 65 ing member provided with a wetting wick, and a semi-circular chamber, a grooved feed roll mounted therein, a second grooved feed roll mounted in a yoke to said moistening member and superimposed to the aforemen- 70 tioned feed roll, and a spring-pressed guide-way interposed between said rolls and in the grooves thereof.

7. In a stamp affixer in combination, with a pressure foot, shearing knife, and feed 75 rolls, means to adjust the feed of the stamp in relation to the knife and a spring-actuated controlling means to prevent the feed roll from moving more than a fraction of a turn in the adjustment thereof. 80

8. In a stamp or label affixer, a reciprocating plunger, in combination with means for advancing the stamps over a stationary moistening pad, means to raise the stamps away from the moistening pad on the com- 85 pletion of each stroke of the plunger.

This specification signed and witnessed, at room 1312, West Street Bldg., in the city of New York, this 5 day of June A. D., 1909.

CHARLES JAMES FANCHER.
JAMES HENRY BURT.

In the presence of—
E. M. NELSON,
M. M. FANCHER.