

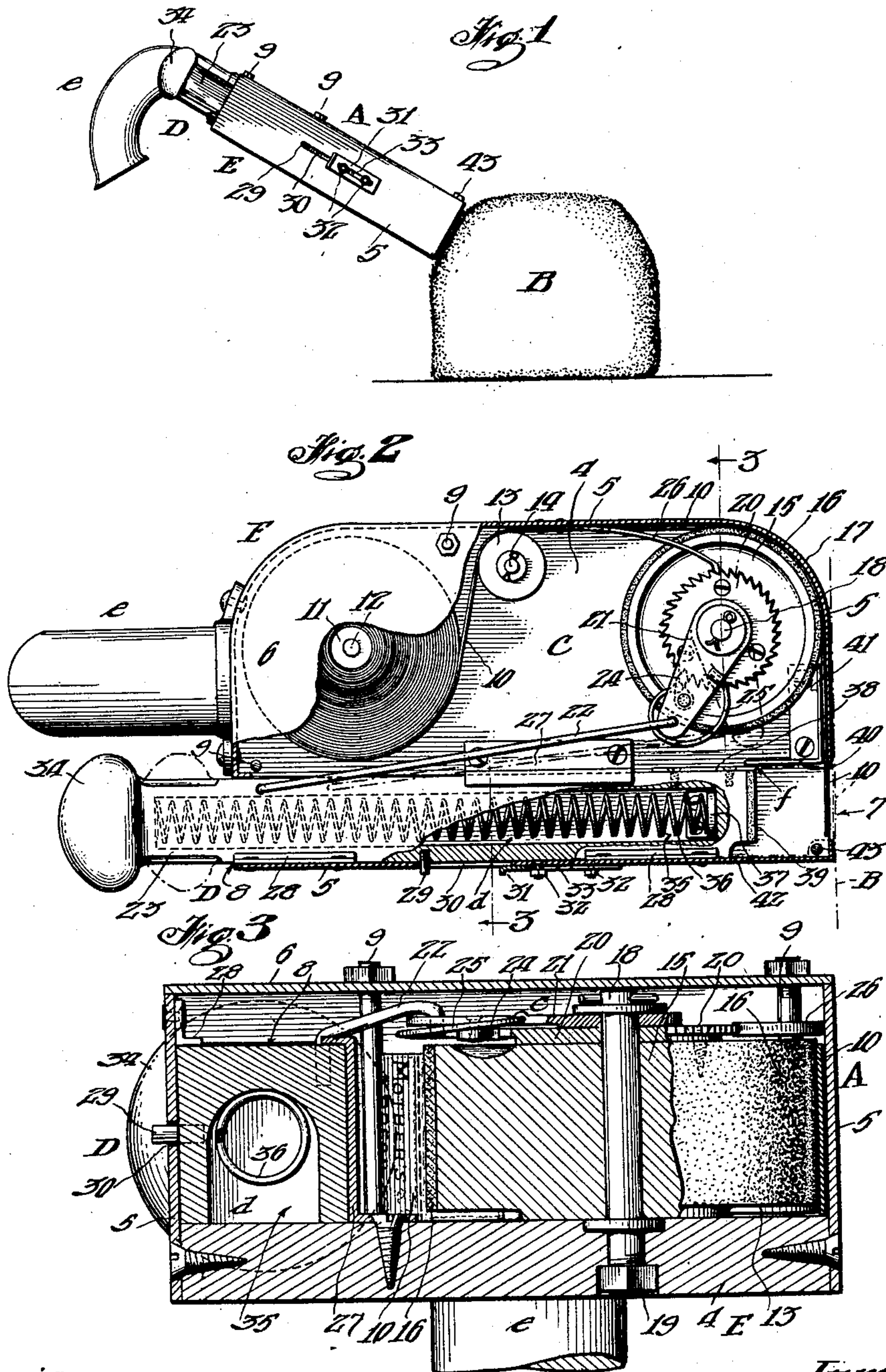
M. FEIST.

MEANS FOR AFFIXING STAMPS OR LABELS TO BAKERS' PRODUCTS.

APPLICATION FILED JUNE 28, 1909.

998,164.

Patented July 18, 1911.



Witnesses:

J. A. Mausfeld  
Maude Melin

Inventor,

Martin Feist;

by

Becker & Hakeslee,

his Attorneys.



# UNITED STATES PATENT OFFICE.

MARTIN FEIST, OF LOS ANGELES, CALIFORNIA.

MEANS FOR AFFIXING STAMPS OR LABELS TO BAKERS' PRODUCTS.

998,164.

Specification of Letters Patent. Patented July 18, 1911.

Application filed June 28, 1909. Serial No. 504,902.

*To all whom it may concern:*

Be it known that I, MARTIN FEIST, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Means for Affixing Stamps or Labels to Bakers' Products, of which the following is a specification.

This invention relates to means for affixing stamps or labels to bakers' products; and it has for its object to provide an improved device or mechanism whereby stamps or labels designating the sources of production, quality, character or name or other indicating symbol may readily be attached to loaves of bread and other articles to which it is the custom or rule to apply the same.

The invention has for its further objects to provide an improved device or mechanism of the general nature set forth which will be relatively inexpensive and simple in construction, compact in form, positive in operation, convenient and positive in use and operation and generally superior in point of efficiency and serviceability.

With the above and other objects in view, the invention consists in the novel and useful provision, construction, combination, association and relative arrangement of parts, members and features, all as hereinafter described, shown in the drawing, and finally pointed out in claims.

In the drawing:—Figure 1 is a side elevation of stamp or label affixing mechanism embodying the invention, the same being shown as in position for use and applied to a loaf of bread to which a stamp or label is to be affixed; Fig. 2 is a top plan view of the device or mechanism shown in Fig. 1; parts of the same being sectioned and broken away for clearness of illustration; and, Fig. 3 is an enlarged detail transverse sectional view, taken upon the line 3—3, Fig. 2, and looking in the direction of the appended arrows.

Corresponding parts in all the figures are denoted by the same reference characters.

Referring with particularity to the drawing, A designates the stamp or label affixing device or mechanism embodying the invention; and B designates a loaf of bread about to receive a stamp or label therefrom.

C designates stamp or label feed means, and D designates operating means for the

feed means C and for affixing the stamps or labels successively supplied by the feed means.

The above members and features are mounted upon and connected with a casing or frame E which is provided with a handle or grip *e* whereby the entire mechanism may be conveniently manipulated and held in contact with the article to which the stamp or label is to be affixed. The action of operating means D is in part effected by tension means *d*.

A particular preferred form of construction and arrangement of parts, members and features embodying the invention, as shown in the drawing, is as follows:—The frame or casing E comprises a base plate 4 suitably shaped and formed to accommodate the working parts of the mechanism; the side and end casing walls 5 rising from the edge portions of the base plate 4; and a top plate 6 between which and the casing walls 5 and base plate 4 the working parts of the mechanism are in the main accommodated. The stamps or labels are successively applied to the loaf of bread or other article through a feed opening 7 at the forward or outer end of the casing E; and from the rearward or inner end of said casing the grip or handle *e* projects. A casing opening 8 is formed at the rearward or inner end of the casing to permit play and operation of the operating means D, in the manner hereinafter set forth. The several parts of the casing or frame E are held together in assembled form and relation by tie-bolts 9.

10 designates a strip or ribbon the length of which is subdivided in conformity with the dimensions of and to produce the stamps or labels to be affixed to the work; said stamps or labels being successively severed from the strip or ribbon by the operating means D simultaneously with the act of affixing the stamp or label to the work. To the latter end the operating means D may be provided with a cutting member *f*. In the description which hereinafter follows of the operation of the mechanism, it will be manifest that the strip or ribbon 10 may comprise a series of stamps or labels connected by perforated portions or portions otherwise relatively weakened in structure, so that the stamps or labels may be successively separated from the strip or ribbon in



the action of the operating means to affix the stamps or labels respectively to the work.

The strip or ribbon 10 is inserted in the casing E in the form of a roll which is centered upon a spool 11 rotatably mounted upon a pin 12 one end of which is fixed in the base plate 4, adjacent to the rearward end of the casing. As the strip or ribbon is unwound, in the action of the feed means C, it passes about an idle roller 13 rotatably mounted upon a pin 14 the lower end of which is seated in the base plate 4. From the roller 13 the strip or ribbon passes to and about a drum 15 located at the lower end of the casing E, substantially in line with the spool 11, and having a surface portion 16 roughened or otherwise constituted to loosely grip the strip or ribbon 10 and frictionally advance the same to the feed opening 7. The end casing wall 5 adjacent to a portion of the drum 15 is curved, as at 17, so that the strip or ribbon is passed in a closely confined condition between the surface portion 16 of the drum and said casing wall, causing a binding impingement of the strip or ribbon upon the drum, and insuring a positive feed of the former.

The drum 15 is loosely mounted upon a pin or spindle 18 the lower end of which is firmly secured in the base plate 4, as at 19. To one face of the drum 15 is attached a circular ratchet plate 20, which is included within the operating means D for the feed means C, which feed means further comprise a rocking arm 21 one end of which loosely surrounds the pin or spindle 18, and the other end of which is connected by a link rod 22 with a plunger 23 slidably mounted in the casing E at one side of the spool 11 and drum 15. A pawl 24 is pivotally mounted upon the arm 21 and co-acts with the ratchet plate 20, being urged into engagement therewith by a spring 25 one end of which is connected with the arm 21 and the other end of which bears upon the pawl. A spring detent 26 connected with a side casing wall 5 co-acts with the ratchet plate 20 to prevent revolution thereof and of the drum 15 in the direction the opposite of that in which it is moved by the pawl 24. Reciprocation of the plunger 23 causes the arm 21 to rock, which in turn, through the pawl 24, causes the ratchet plate 20 and the drum 15 to progressively revolve in steps simultaneously with the movements of the plunger 23 in one direction.

The plunger 23 is confined to its proper path of movement by a lateral guide plate 27 and a plurality of top guide plates 28 which are respectively connected with the base plate 4 and a side casing wall 5. The amount of movement of the plunger 23 is determined and limited by a stop pin 29 which projects laterally through an elongated opening 30 in a side casing wall 5, said stop

pin 29 engaging with the rearward end wall of the opening 30 in the rearward stroke of the plunger, and engaging with an adjustable stop plate 31 at the end of the forward stroke of the plunger. The stop plate 31 is adjustably connected with a side casing wall 5, by locking nuts and bolts 32 the latter of which pass through an elongated slot 33 in the stop plate 31.

The rearward end of the plunger 23 is formed into or provided with a knob or handle 34 for convenient manipulation of the plunger; and said plunger is provided with an elongated vertical longitudinal chamber 35 within which is mounted a coil spring 36 one end of which bears upon the rearward end wall of the chamber 35, and the other end of which bears upon an abutment plate 37 arranged adjacent to the forward end of the plunger 23 and connected with the base plate 4 in such manner as to project upwardly within the chamber 35. The coil spring 36 constitutes the tension means of the operating means D.

The cutting member *f* comprises a knife-edged plate 38 mounted upon one side face of the plunger 23, at the forward end thereof, and projecting slightly beyond an end cushion 39 carried by the plunger; said plate 38 being in alinement with one side of the feed opening 7 and traversing, in action, a guide plate 40 leading to said feed opening to which the strip or ribbon 10 is fed upon an end casing wall 5 and a guide plate 41 extending angularly with relation to the guide plate 40, and preferably formed integrally therewith, both said guide plates being mounted upon a bed plate.

The forward end of the plunger 23, at the side thereof opposite to the knife-edged plate, is provided with a recess forming a stop shoulder 42 spaced rearwardly from the end cushion 39 to a predetermined degree, and arranged to engage with a stop 43 which may also constitute a tie bolt between the top plate 6 and the base plate 4. Co-action of the stop shoulder 42 and the stop 43 act to limit the forward stroke of the plunger 23, as the plunger acts to sever the stamp or label from the strip or ribbon 10 and to affix it to the work. The plunger 23 is mounted to reciprocate upon the base plate 4 in a plane longitudinal of the casing E and at one side of the spool 11 and its roll of strip or ribbon 10, and of the drum 15.

The operation, method of use and advantages of the stamp or label affixing mechanism constituting the invention will be readily understood from the foregoing description, taken in connection with the accompanying drawing and the following statement:—

With a coil of the strip or ribbon 10 installed in the casing E upon the spool 11, one end of said strip or ribbon being led



about the roller 13 and the drum 15 and across the feed opening 7, which latter is approximately of the same dimensions as one of the stamps or labels composing said strip or ribbon, and with the parts in the relative positions shown in the drawing, the entire mechanism is brought to bear at its forward end against the loaf of bread or other work B, one hand of the operator grasping the handle or grip *e*. The other hand of the operator is now placed against the knob or handle 34, against the resistance of the yielding spring 36, and the knife-edged plate 38 traverses the guide plate 40 and severs the end stamp or label of the strip or ribbon 10 from the remaining portion of the latter. The forward end of the plunger 23 follows through the feed opening 7, forcing the stamp or label against the loaf by means of the end cushion 39, until the movement is terminated by the co-acting stop shoulder 42 and stop 43. The affixing of the stamp or label preferably is performed while the loaf or other work is in a moist or sticky condition, causing effective adhesion of the stamp or label to the loaf, without the employment of any adhesive material such as paste, upon the stamp or label. Such adhesive material may, however, be employed if preferred. If the pressure of the operator's hand upon the knob or handle 34 is released, the spring 36 will cause the return or rearward stroke of the plunger 23, to the position shown in the drawing. The forward stroke of the plunger is limited by the co-acting stop pin 29 and the adjustable stop plate 31; and the rearward or return movement of the plunger is limited by the stop pin 29 and the rearward wall of the elongated opening 30 in the side casing wall 5. Extreme forward movement of the plunger 23 is limited by co-action of the stop shoulder 42 and the stop 43 as above set forth. Upon each return or forward movement of the plunger 23, the arm 21 is rocked and its pawl 24 revolves the ratchet plate 20 and the drum 15, causing the feed of the strip or ribbon 10 sufficiently to advance a fresh stamp or label into registration with the feed opening 7; and at each forward movement of the plunger 23 such stamp or label is detached from the strip or ribbon and affixed to the work, in the manner above described, the drum 15

being held stationary by the detent and no feed of the strip or ribbon taking place. 55

The entire mechanism is simple in construction and positive and speedy in operation, and serves effectually to stamp or label a large number of loaves or other articles in a short space of time. 60

I do not desire to be understood as limiting myself to the specific provision, construction, combination, association and relative arrangement of parts, members and features shown and described as embodying the invention; but reserve the right to vary the same in adapting the improvements to varying conditions of use without departing from the spirit of the invention or the terms of the following claims:— 65 70

Having thus described my invention, I claim and desire to secure by Letters Patent:—

1. In a stamp affixing device, the combination of a casing provided with a feed opening, means for supplying stamps to the feed opening, a plunger slidably mounted within the casing and adapted to act upon the stamps to force them through the feed opening, the said plunger having a laterally opening recess therein, a plate carried by the casing and projecting into the recess, and a spring arranged within the recess and interposed between one end thereof and the plate so as to hold the plunger yieldingly in a retracted position. 75 80 85

2. In a stamp affixing device, the combination of a casing formed with a feed opening and a slot, means for supplying stamps to the feed opening, a plunger slidably mounted within the casing and adapted to act upon the stamps to force them through the feed opening, a pin carried by the plunger and projecting through the slot of the casing, and a stop plate adjustably applied to the casing and extending over one end of the slot for coöperation with the pin to limit the movement of the plunger. 90 95

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses. 100

MARTIN FEIST.

Witnesses:

G. J. EVEREST,

FRED A. MANSFIELD.