

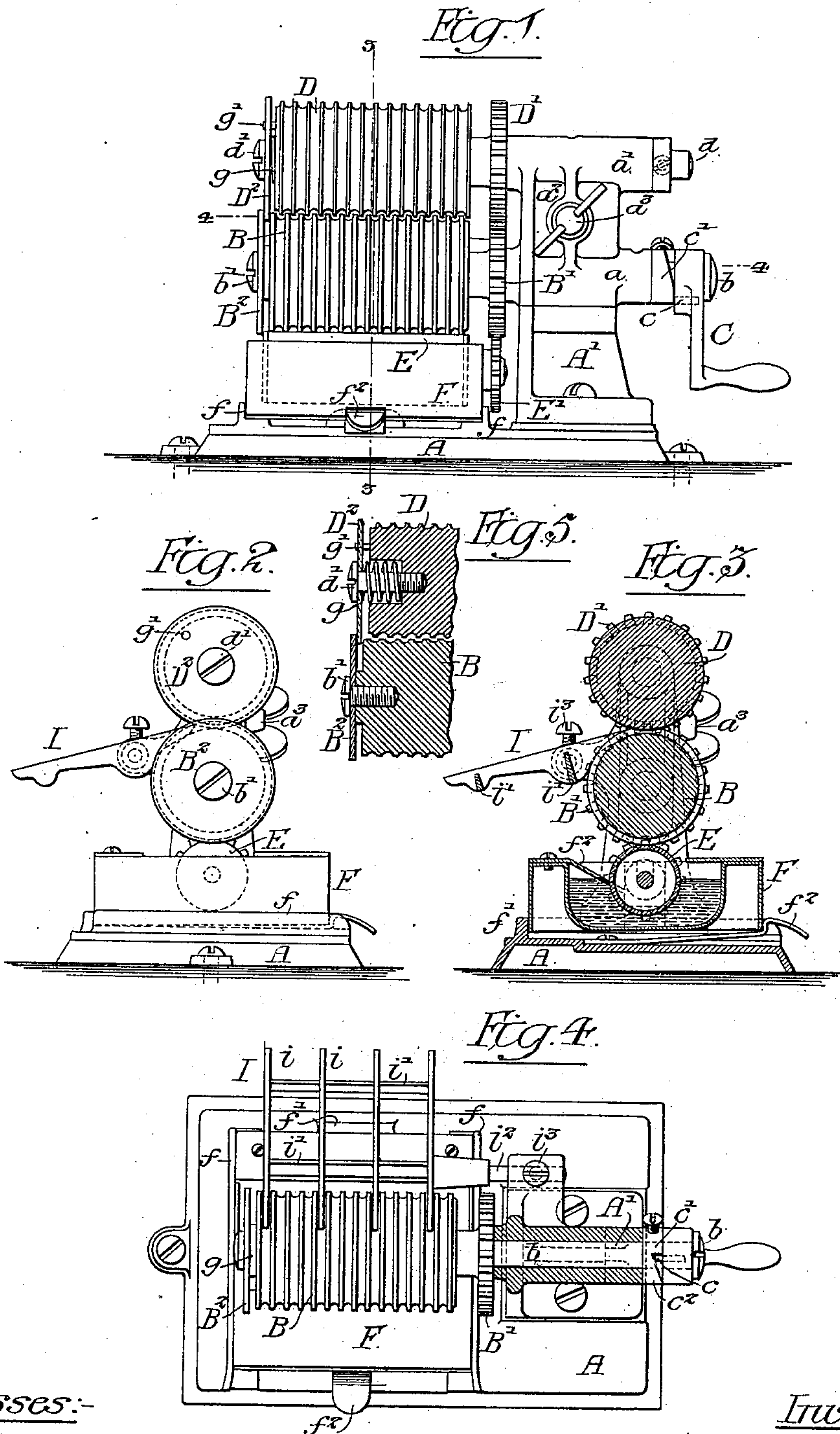
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Patented Jan. 22, 1901.

S. B. TILY.
MACHINE FOR GUMMING LABELS.

(Application filed Jan. 31, 1900.)

(No Model.)



Witnesses:-

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UNITED STATES PATENT OFFICE.

STEPHEN B. TILY, OF PHILADELPHIA, PENNSYLVANIA.

MACHINE FOR GUMMING LABELS.

SPECIFICATION forming part of Letters Patent No. 666,576, dated January 22, 1901.

Application filed January 31, 1900. Serial No. 3,448. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN B. TILY, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain
5 Improvements in Machines for Gumming Labels, of which the following is a specification.

My invention relates to certain improvements in machines for gumming labels.

10 The machine is especially adapted for use in stores where the label forms part of the sales-slip and in which the label must be removed from the slip and attached directly to the package sold.

15 The object of my invention is to construct a machine for simultaneously gumming one side of the label and cutting the label from the remainder of the sales-slip.

20 In the accompanying drawings, Figure 1 is a side view of my improved label-gumming machine. Fig. 2 is an end view. Fig. 3 is a section on the line 3 3, Fig. 1. Fig. 4 is a sectional plan view on the line 4 4, Fig. 1; and Fig. 5 is a detail view of my invention.

25 A is the base of the machine, to which is secured a standard A'. In this standard are the bearings *a* and *a'* for the spindles *b* and *d* of the rollers B and D. The cap-plate *a*², which forms the half-box of each bearing, is
30 secured to the standard A' by a thumb-nut *a*³, so that on removing the thumb-nut the cap-plate can be readily detached and the rollers removed from the machine.

Loosely mounted on the spindle *b* of the
35 roller B is a handle C, having a spring-pin *c*, which is adapted to engage the offset *c'* of a collar *c*², secured to the spindle, as shown clearly in Fig. 4. By this means the roller B can be turned only in one direction.

40 On the spindle of the roller B is a gear-wheel B', which meshes with a gear-wheel D' on the spindle of the roller D and also with the gear-wheel E' of a roller E, mounted within the reservoir F for the gum or paste, so that
45 on turning the handle C the three rollers will turn in unison.

50 The rollers B and D are preferably grooved, as shown in Fig. 1, the ribs of one roller being in line with the grooves of the other roller, and the rollers are so adjusted that the label will be held firmly onto the lower roller B. As shown in Fig. 1, the ribs of one

roller mesh with the ribs of the other roller, the flat surfaces of the said annular ribs of the roller B conveying the gum from the dis- 55 tributing-roller E and applying it to the back of the label as it is passed between the rollers B and D. The label when gummed has a series of narrow lines of gum across its back, and the label while still moist is applied to 60 the package or other article to be labeled.

Secured to the end of the roller B by a screw *b'* is a rotary knife B², and secured on the end of the roller D by a screw *d'* is a rotary knife D². The rotary knife D² is pressed 65 against the knife B² by a spring *g* and is held from turning on the roller D by a pin *g'* on the roller, which enters a hole in the knife, thus keeping the cutting edges of the two knives in contact, as shown in Fig. 5. Thus 70 the label is not only passed through the machine, but also cut from the remaining portion of the sales slip or blank.

In order to remove the label from the gumming-roller B, I secure to the frame of the machine a ribbed guide I, made up of a se- 75 ries of ribs *i*, secured together by cross-pieces *i'* and having a projecting portion *i*², adapted to an orifice in the frame of the machine and secured therein by a set-screw *i*³, as clearly 80 shown in Fig. 4. The ribs *i* extend well into the grooves of the lower roller, so that as the label passes between the rollers it is fed onto the guide I, so that it can be readily removed therefrom and applied to the package. 85

The reservoir F for the gum is made detachable from the machine and is adapted to guides *f* *f* on the base A and is held against a stop *f'* by a spring-clip *f*², Fig. 3. The reservoir has a scraper *f*³, which is detachably 90 secured to the reservoir and rests almost in contact with the roller E, so that the surplus gum or lumps will be removed from the rollers E before it transfers the gum to the pasting-roller B. The spring-clip *f*² is shaped so 95 as to lift the reservoir up to force the roller E in contact with the pasting-roller B.

This simple device can be attached to the wrapping-counter in a store, for instance, and the package-clerk after wrapping the 100 package can take the sales-slip, which is usually filled up by the salesman, and simply pass the end of the slip through the machine, simultaneously severing the label from the

slip and applying gum to the back thereof. The remainder of the slip is handed to the salesman, while the gummed label is attached to the package. Thus there is no confusion, the pasting being quickly and neatly done.

In some instances where it is desired to only gum the label the cutting mechanism may be dispensed with.

I claim as my invention—

10 1. The combination in a machine for gumming labels, of a reservoir, a gumming-roller and a pressing-roller, said rollers having a series of annular ribs upon their surfaces, said ribs meshing with one another, the rollers being supported outside of and independent from the reservoir, a distributing-roller mounted in said reservoir and in contact with the gumming-roller, means for gearing the rollers together and means for turning one of
15 20 the rollers, substantially as described.

2. The combination of a gumming-roller, a pressing-roller geared thereto and mounted above the gumming-roller, annular grooves on both rollers, the ribs on one of said rollers
25 being in line with the grooves on the other

roller and thereby firmly holding the label operated on, a ribbed guide at the back for carrying off the gummed label, a reservoir under the gumming-roller, a distributing-roller mounted in the reservoir and bearing upon the gumming-roller, and means for driving the three rollers, substantially as described. 30

3. The combination of a grooved gumming-roller, a presser-roller mounted above the gumming-roller, a reservoir mounted under the gumming-roller, a distributing-roller carried by the reservoir, gearing by which the several rollers are turned, with a spring under the reservoir and adapted to force the distributing-roller in contact with the gumming-roller, substantially as described. 35 40

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

STEPHEN B. TILY.

Witnesses:

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