

Dec. 22, 1931.

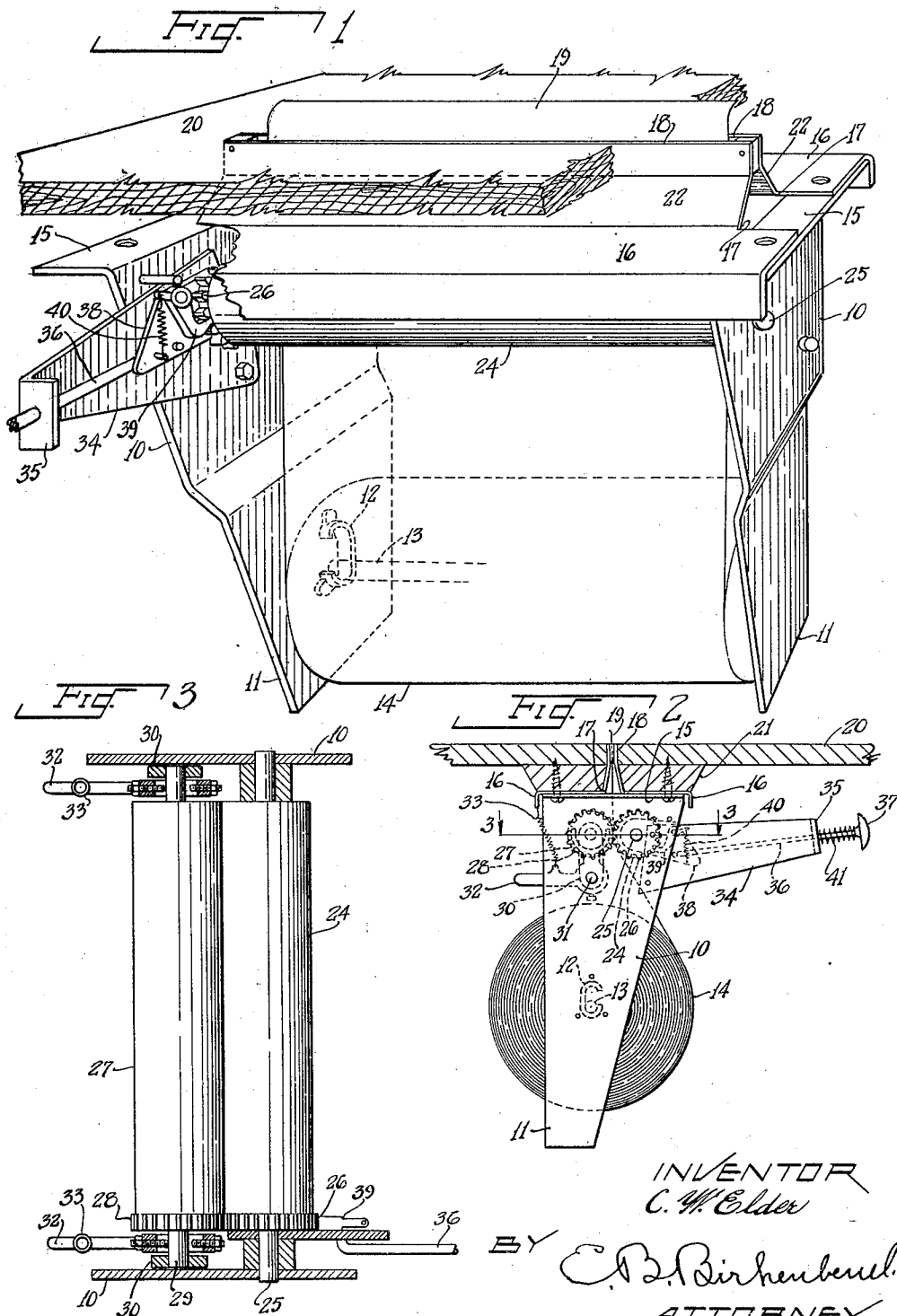
C. W. ELDER

1,837,418

PAPER DISPENSING APPARATUS

Filed Jan. 28, 1929

2 Sheets-Sheet 1



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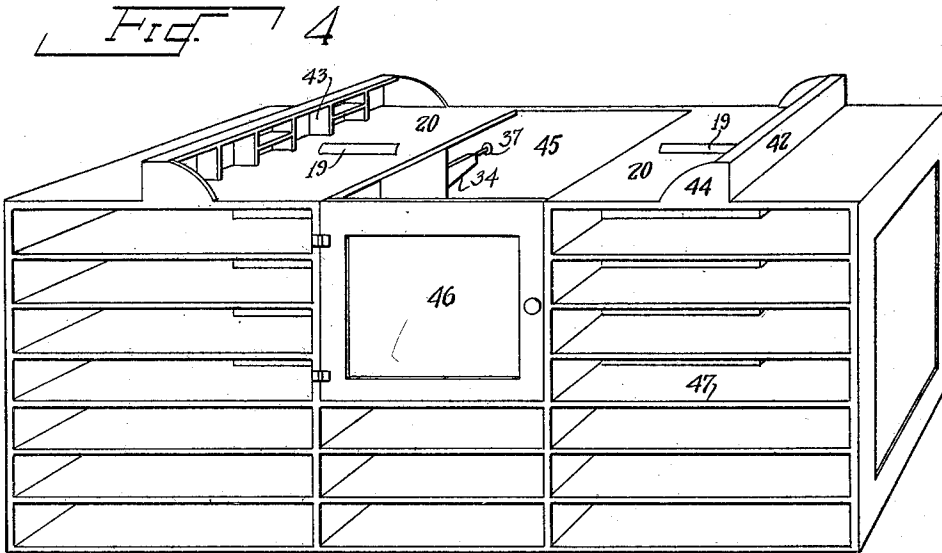
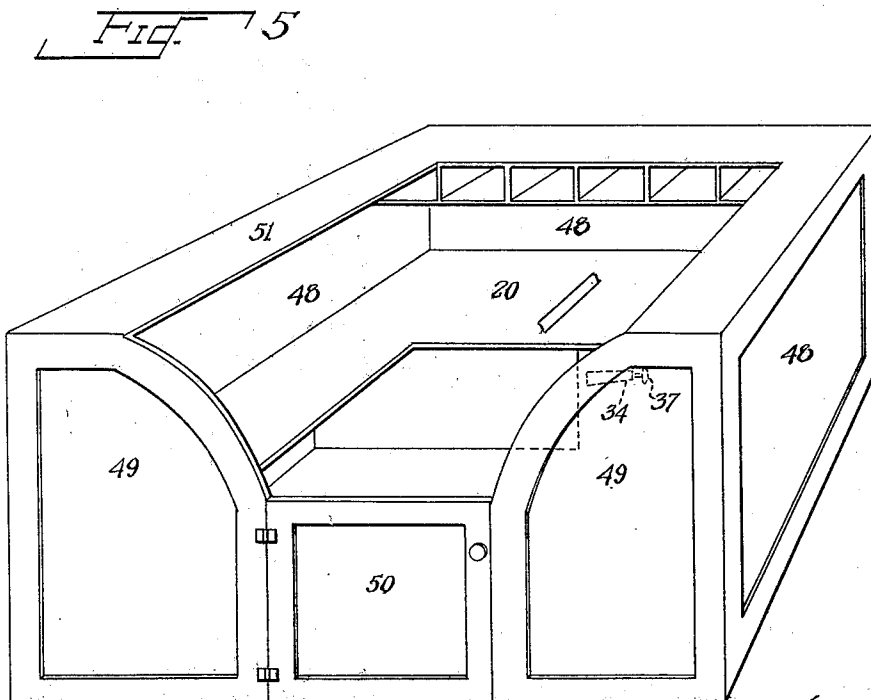
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PAPER DISPENSING APPARATUS

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This invention relates generally to devices for dispensing paper and especially to the wrapping of packages for delivery to a purchaser.

5 The main object of this invention is to provide a paper dispensing apparatus particularly adapted for use with enclosed types of wrapping counters.

10 The second object of this invention is to combine a special form of paper dispensing mechanism with a wrapping counter having a restricted wrapping area.

15 The third object is to provide a special form of paper dispensing apparatus in which paper in web form may be kept out of sight beneath the wrapping surface, and which can be mechanically fed out through the wrapping surface to enable the operator to take hold of same and manually draw it from the roll as far as desired before severing.

20 These, and other objects, will become more apparent from the specification following as illustrated in the accompanying drawings, in which:

25 Figure 1 is a perspective view of the paper dispensing device showing the wrapping counter broken away in section. Figure 2 is a side elevation of the paper dispensing mechanism showing the wrapping counter in section. Figure 3 is a horizontal section taken along the line 3—3 in Figure 2. Figure 4 is a perspective view of one form of wrapping counter showing the device associated therewith. Figure 5 is a second form of wrapping counter showing the relation of the paper dispensing device thereto.

35 Similar numbers of reference refer to similar parts throughout the several views.

40 Referring in detail to the drawings, the device itself consists of a pair of upright standards 10 whose lower ends 11 are slightly offset toward each other and their adjacent faces are provided with pockets 12 to receive the spindle 13 of the paper roll 14. The upper portion 15 of each standard 10 is outwardly turned and the two standards are united by the cross angle members 16 whose adjacent edges 17 are upturned to form the tearing edges 18 between which the paper 19 passes as it comes through the wrapping coun-

ter 20. The uppermost portion of the tearing edges 18 is preferably flush with the top counter.

Between the under side of the wrapping counter 20 and the top side of the angle members 16 are the filler strips 21 between which the portions 22 converge, as illustrated, to assist in threading the paper through the device.

Between the standards 10 and journaling 60 therein is a roll 24 on whose shaft 25 is secured a gear 26 by means of which motion may be imparted to the roll 24, and a contacting roll 27 through its gear 28 meshes with the gear 26. The spindle 29 of the roll 27 is supported by the upper ends of the arms 30 which are carried by the rock shaft 31 provided with a roll releasing lever 32 normally urged upward by a spring 33. A depression of the lever 32 will, of course, move the rolls 24 and 27 apart to facilitate the threading of paper therethrough.

On one of the standards 10 is secured the extension bracket 34 whose inturned end 35 serves as a guide for the plunger 36 which is provided with a key 37.

On the shaft 25 is loosely mounted a rocker arm 38 adjacent to the gear 26 and carrying a pawl 39 which is normally urged into engagement with the gear 26 by means of a spring 40.

One end of the plunger 36 is connected to the rocker arm 38 so that a pushing movement of the key 37 will cause the rolls 24 and 27 to rotate in a direction which will cause the paper 19 to move upwardly between the edges 18 far enough to permit the taking care of same with the hands and the subsequent drawing of sufficient paper from the roll 14 for the purpose intended.

It is desirable to provide a spring 41 for urging the plunger 36 outwardly. This spring could, of course, be placed in any other position required to accomplish this result.

It will be noted that the wrapping surface of the counter 20 must be provided with a slot through which the paper 19 can pass. It will also be noted in Figures 4 and 5 that the wrapping surface of the counter 20 is restricted in area, due to the class of counters

on which they are used, and it is this restriction which makes the use of this dispensing device especially advantageous. It will be noted in Figure 4 that the restriction consists of a wall 42 provided with pigeon holes 43 and side wings 44 and the operator is confined between the two counters 20 by the wall 45, and the door 46. Wrapping counters of this type are usually provided with shelves 47.

In the type shown in Figure 5 the wrapping counter 20 is surrounded by three walls 48 and the end walls 49, the counter being continuous but in U shape, within which the operator is confined by the door 50. A raised shelf 51 extends around the walls 48 and further restricts the movements of the operator.

It will be understood that wrapping counters such as are shown in Figures 4 and 5 are now in use and that my dispensing device is particularly valuable when used in connection therewith, owing to the natural limitations of such devices as far as wrapping surfaces are concerned.

I claim:

1. A paper dispensing device consisting of a longitudinal frame having a slot formed therein along the length thereof, a pair of standards at opposite ends of said frame, means for mounting a roll of paper between said standards in a manner to permit the ends of said paper to pass through said slot, a fixed feed roll around which said paper passes, a second feed roll yieldably mounted alongside of said fixed feed roll, gears on said rolls for rotatably connecting same, a rocker arm on said fixed feed roll, a pawl on said rocker arm normally engaging the gear on said fixed feed roll, a plunger for operating said rocker arm in a manner to swing said pawl and to impart a limited movement to said feed roll in a driving direction, and a spring for returning said pawl to a point of rest.

2. A paper dispensing apparatus having in combination a pair of spaced standards, a pair of upwardly feeding rolls mounted between said standards, intermeshing gears on said rolls for driving same in unison, a hinged arm mounted alongside of one of said gears, a plunger attached to said arm for rocking same, a pawl mounted on said arm having a spring thereon for urging same into engagement with the teeth of the gear, a movement of said pawl in one direction causing a movement of said gear, a shaft journaling between said standards having an arm at each end thereof supporting the second roll, a spring for urging said second roll toward said first roll, and a lever on said shaft for moving said second roll in opposition to said spring.

3. A paper dispensing device consisting of a pair of downturned angle members having their adjacent ends spaced from each other their upper sides inclined upwardly and then

vertically to form a slot, a pair of upright standards having out-turned flanges at their upper ends secured across the outer ends of said angle members, paper feeding rolls mounted between said standards having an operating key attached thereto for providing a limited feeding movement, and means for disengaging said feed rolls to facilitate the insertion of paper therethrough, and means for supporting a roll of paper between the lower ends of said standards in a manner that same may be fed upwardly between said rolls and through said slot.

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