Nov. 14, 1939. W. L. DEWBERRY 2,179,780

BOTTLE WRAPPER AND ROLLER

Filed July 6, 1938

Fig. 1.

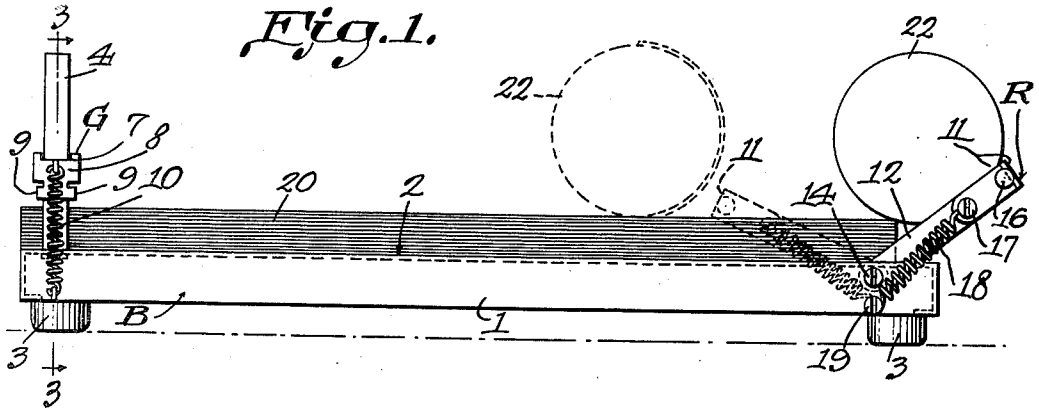


Fig. 2.

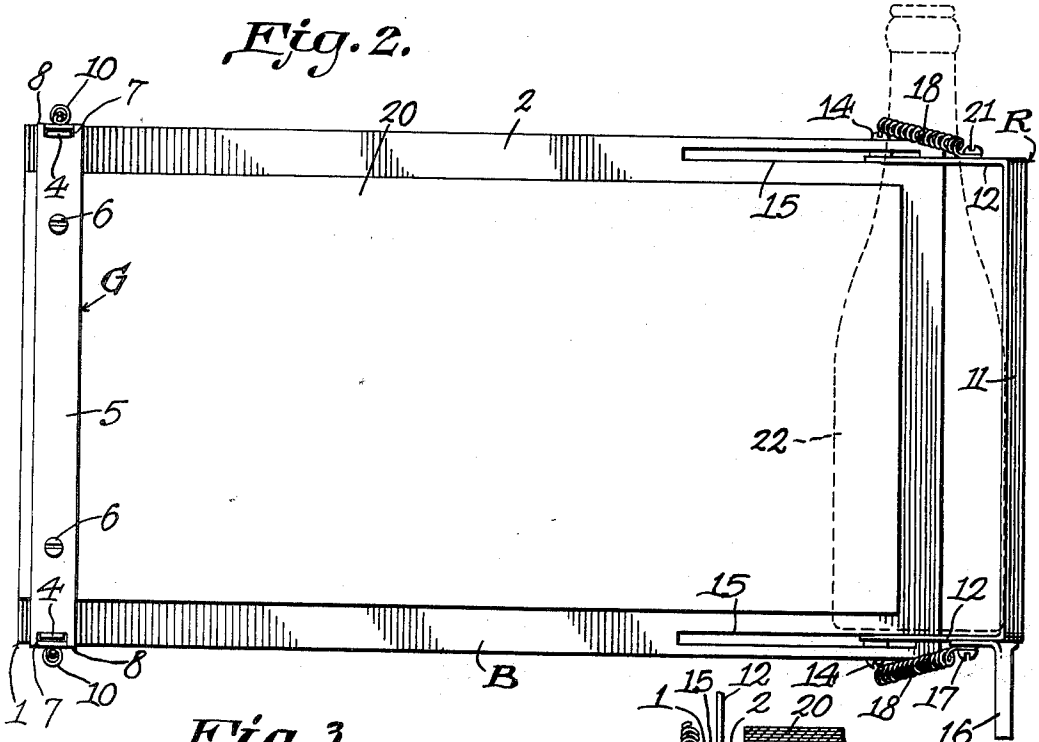


Fig. 3.

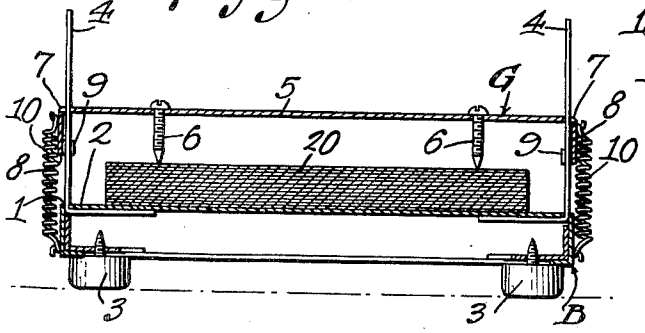
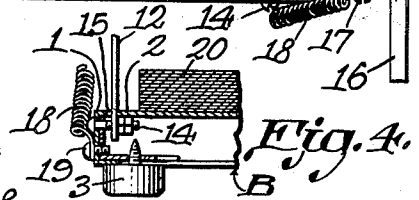


Fig. 4.



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BOTTLE WRAPPER AND ROLLER

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2 Claims. (Cl. 93—2)

This invention aims to provide novel means for holding napkins of paper, or thin sheets of tissue paper, in such position that when a bottle which is wet is rolled along the uppermost sheet of paper, the sheet of paper will stick to the bottle and form a covering for the bottle. The device is of use, since it is a well recognized fact that fastidious drinkers of bottled goods desire to have the bottles wrapped in paper when they are dispensed.

Another object of the invention is to provide a device of the class described which has a novel, combined, bottle roller and paper holder.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the present invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawing:

Fig. 1 shows in side elevation, a device constructed in accordance with the invention;

Fig. 2 is a top plan;

Fig. 3 is a cross section on line 3—3 of Fig. 1;

Fig. 4 is a fragmental transverse section showing the mounting of the combined bottle roller and paper holder, and attendant parts.

The device, for the most part, may be made out of metal, and includes an oblong, rectangular base B, made up of a frame 1 carrying a horizontal table 2, the frame being supported, if desired, on rubber legs 3. Vertical guide standards 4 are located near the front end of the base B and are secured to the table 2, the guide standards projecting upwardly above the table. The letter G designates, generally, a paper grip, comprising a horizontal bar 5 carrying vertically adjustable depending prongs 6. At its ends, the bar 5 of the paper grip G has openings 7, receiving the guide standards 4, the paper grip G being vertically adjustable. The bar 5 is provided at its ends with depending arms 8, located on the outside of the guide standards 4, in slidable contact therewith. The arms 8 are supplied at their lower ends with approaching fingers 9, extended part-way around the guide standards 4. The arms 8 and the fingers 9 tend to keep the bar 5 at right angles to the guide standards 4, and, therefore, the paper grip G will move smoothly up and down on the guide standards 4. The paper grip G is drawn downwardly by pull springs 10, the upper ends of the pull springs being connected to the arms 8 of the bar 5, and the lower ends of the pull springs being connected to the sides of the frame 1.

At the rear end of the base B is located a combined bottle roller and paper holder which is designated generally by the letter R. The bottle roller and paper holder R includes a horizontal clamp piece 11 having depending arms 12 connected by pivot elements 14 to the sides of the frame 1, the arms 12 being mounted to move in slots 15 in the table 2. The numeral 16 designates a side handle the foot of which is held by a securing element 17 on one of the arms 12 of the bottle roller and paper holder R. Pull springs 18 are shown. The upper ends of the pull springs 18 are connected, in one instance, by the securing element 17, to one of the arms 12 of the bottle roller and paper holder R and in the other instance, to the corresponding arm of the paper holder and bottle roller, by an additional securing element 21 shown in Fig. 2. The lower ends of the pull springs 18 are connected to the sides of the frame 1 by anchor members 19. The anchor members 19 are located directly below the pivot elements 14 that carry the bottle roller and paper holder R for swinging movement longitudinally of the base B.

When the bottle roller and paper holder R is swung rearwardly into the position shown in Fig. 1, its movement in that direction is limited, because the arms 12 engage the table 2 at the rear ends of the slots 15. The springs 18 are double acting springs, in that, when the member R is in the solid line position of Fig. 1, they tend to hold the bottle roller in that position. When, however, the member R is swung over to the left in Fig. 1, into paper holding position, the springs 18 hold the member R in the position last referred to.

A stack of thin paper sheets 20 is placed on the table 2, the paper grip G having been raised, and the springs 10 having been elongated. When the paper grip C is released, it slides downwardly on the guide standards 4, under the impulse of the springs 10, and the prongs 6 engage the stack 20 of paper, near its forward end. The paper holder R can be swung over into the dotted line position of Fig. 1, to hold the sheets 20 of paper properly stacked and against blowing about and tearing, when the device is not in use.

When it is desired to use the article, the paper holder and bottle roller R is swung rearwardly

into the solid line position of Fig. 1. The operator takes a wet bottle out of an ice pack and supports the bottle on the rear end of the stack **20** of paper sheets, against the clamp piece **11** of the paper roller R. The paper roller R then is given a forward shove, and the paper roller tilts on the pivot elements **14**. The member R rolls the bottle forwardly, the bottle, being wet, picks up one end of the uppermost sheet of paper in the stack **20**, and the bottle rolls along in a forward direction until it strikes the paper grip G, and specifically the bar **5** thereof, the sheet of paper around the bottle, being thin, being stripped out from beneath the holding prongs **6**. As the member R swings forwardly, the clamp piece **11** comes down on top of the stack **20** of paper, as shown in dotted line in Fig. 1.

If the operator prefers, he may, of course, roll the bottle **22** forwardly from the position of Fig. 2, by hand, and without tilting the member R forwardly. Under such circumstances, however, he has to perform two operations, one of which is rolling the bottle **22**, and the other of which is swinging the member R forwardly, so that it will engage on top of the stack **20** of paper. The device, however, is so constructed that these two operations may be combined into one, all that it being necessary for the operator to do, being to swing the member R forwardly when the bottle **22** is in the position shown in solid line in Fig. 1.

What is claimed is:

1. In a machine for wrapping wet bottles, to which paper will adhere, a base, a grip carried by the base, a combined bottle roller and paper holder pivoted to the base for swinging movement at the will of an operator forwardly toward the grip and rearwardly away from the grip, the grip constituting means for holding a stack of paper on the base, with one end of the stack in a fixed position with respect to the roller and holder, means for limiting the rearward movement of the roller and holder, to dispose it in such position that when a bottle is disposed against the roller and holder, the lower portion of the bottle will rest upon and project outwardly beyond said end of the stack, thereby to pick up terminally the uppermost sheet of the stack, for rolling, and spring means for swinging the roller and holder rearwardly to bottle-abutment position, and forwardly to paper holding position.

2. In a bottle wrapping machine, a base including a table having slots, a movable paper grip carried by the base and located adjacent to the forward end of the base, a paper holder located adjacent to the rear end of the base and comprising a clamp piece having depending arms which are extended downwardly through the slots and pivoted to the base within the base and beneath the table, for swinging movement toward and from the paper grip, one of the arms engaging the table at the rear end of one of the slots to stop the paper holder in a rearwardly-inclined position, the paper holder being movable toward the paper grip, into paper-holding position above the table, a pull spring, and means for connecting the pull spring to the paper holder and to the base in such relation thereto that the spring will retain the paper holder yieldably in either of the positions specified.

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