Jan. 28, 1947. W. H. ZIEGLER 2,414,915

TAPE DISPENSER

Filed Jan. 22, 1945

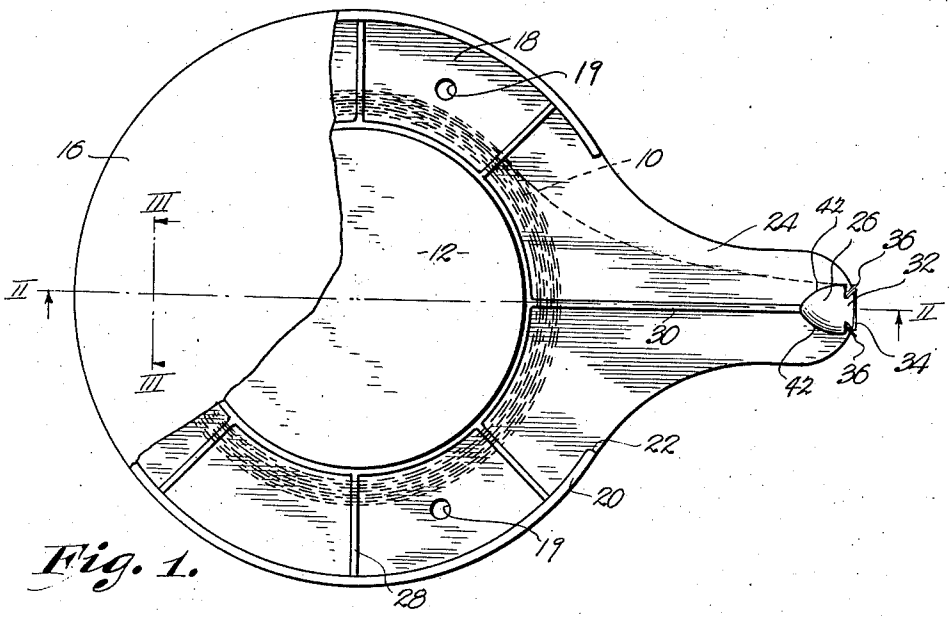


Fig. 1.

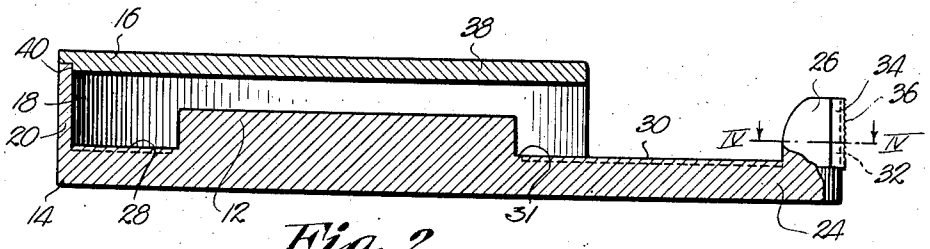


Fig. 2

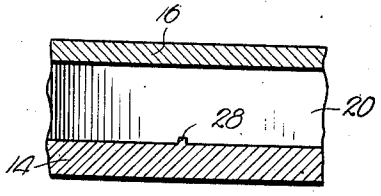


Fig. 3.

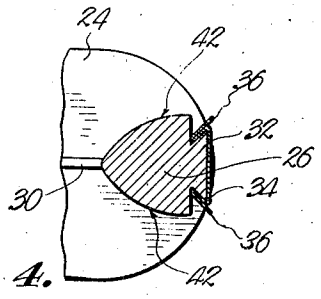


Fig. 4.

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TAPE DISPENSER

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5 Claims. (Cl. 164—84.5)

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This invention relates to tape dispensers of the portable or hand type and of the character that may be rigidly affixed to a stationary mounting if desired.

The primary aim of the instant invention is to provide a dispenser of the aforementioned character which has as a component part thereof, novel and unique means for revolvably supporting a roll of tape and for severing a length thereof, after the said length has been withdrawn from the roll.

This invention has for a further object the provision of a tape dispenser, moldable from plastic or similar substance, and capable of being assembled without the use of a number of securing elements or other means that would add to the expense of an otherwise inexpensive article of manufacture.

An even further object of this invention is to provide a dispenser for rolled tape which has as a component element thereof, an unique and novel severing blade disposed in a place which is markedly an extended distance to one side of the housing for the tape roll and in such fashion as to permit the quick severing of a length of tape, regardlessly of the relative positions of the dispenser and the user thereof by the simple expedient of reversing the direction of rotation of the roll in its housing.

Further and more specific objects of the invention will appear during the course of the following specification, referring to the accompanying drawing, wherein:

Fig. 1 is a top plan view of a tape dispenser embodying the present invention.

Fig. 2 is a longitudinal sectional view through the dispenser taken on line II—II of Fig. 1 and looking in the direction of the arrows.

Fig. 3 is a fragmentary sectional view taken on line III—III of Fig. 1; and

Fig. 4 is an enlarged fragmentary sectional view taken on line IV—IV of Fig. 2.

The component parts of the dispenser are preferably cast or otherwise formed of plastic material to present a light, durable and inexpensive housing for the roll of tape 10, which is of conventional character and may be purchased on the open market.

This roll of tape has a central opening for the reception of a trunnion 12 molded integrally with one of the pair of opposed members 14 and 16 that cooperate in producing a closed housing 18 for the roll 10.

Member 14 is substantially disc-shaped and has a laterally extending marginal flange 20 projecting from one side thereof. This flange 20 is incomplete and ends as shown in Fig. 1 to provide an opening 22 through which the tape may pass when a length of the same is to be withdrawn from the roll 10.

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An extension 24 integral with member 14 lies in the same major plane therewith and projects radially therefrom to present a head 26 opposed to opening 22.

A number of radial, integral ribs 28 are formed on the inner side of member 14 to engage the side of tape roll 10 and to reduce the friction to a minimum. One of the ribs 28 is extended as at 30 to reinforce tongue 24, and all of these ribs join annular shoulder 31 at the base of trunnion 12.

Head 26 has a portion thereof which is dove-tail in transverse cross section. This portion 32 removably receives a severing blade 34 formed as detailed in Fig. 4, and includes a pair of cutting edges 36. These edges 36 intersect the path of travel of tape 10 and project laterally from the inner face of tongue 24. Thus, the tape may be drawn against either cutting edge 36 after the desired length thereof has been removed from the roll 10 thereof within housing 18.

A cooperating member 16, or 38 is disc-shaped and shouldered as at 40 to cooperate with flange 20 in closing housing 18 and holding the roll of tape 10 on trunnion 12. Friction fit is sufficient to hold this member 16 in place but if desired any suitable means such as screws or machine bolts, not here shown, may be employed to hold the two side members 14 and 16 respectively in assembled relation.

Reverting again to head 26, it is notable that the dove-tail shaped portion 32 thereof, is integral with an enlarged portion having inclined faces 42 serving as guides toward the two cutting edges. The severing blade 34 has sharpened or saw-toothed cutting edges 36 and springs to place by slipping the dove-tail central element thereof over the dove-tail portion 32 of head 26.

The material from which the severing blade 34 is formed, is resilient enough to yieldably maintain the blade in place and the same may be renewed as often as desired. Member 16 is quickly detached from flanges 20 when a new or fresh roll of tape 10 is to be operatively positioned.

Openings 19 receive screws when the dispenser is secured in position on the horizontal surface of a table or the like. The dispenser may be either to the right or left of the operator and yet used without alteration. Head 26 is so formed as to hold the free end of tape 10 in a

position for grasping when either edge **36** or **26** is employed.

As illustrated, tape **10** has been severed by edge **36** but if desired, the roll of tape may be reversed to have the coated side facing edge **26** and, therefore, the face **42** adjacent thereto will contact and hold the tape available for grasping.

The tape roll turns about the trunnion **12** and rides upon the upper faces of shoulder **31** and ribs **28** and **30**. The length of tape **10** between opening **22** and head **26** is always exposed and may be grasped with ease.

Having thus described the invention, what is claimed as new and desired to be secured by Letters Patent is:

1. A dispenser for rolled tape comprising a pair of opposed members forming a housing; a trunnion on one of the members, within the housing to rotatably receive the tape roll; an extension on one of the members disposed radially with respect to the trunnion to a free end an appreciable distance beyond the other member; a head formed on the free end of said extension; and a substantially U-shaped instrument for severing the tape frictionally gripping the head of the extension, said instrument having a pair of blades projecting in opposite directions from the medial line of the extension and in lines parallel with the axis of the said trunnion.

2. A dispenser for rolled tape comprising a pair of opposed substantially disc-shaped members forming a housing; a lateral marginal flange on one side of one of the members extending partially around the edge thereof; an extension projecting from the said one member at that portion of the edge thereof not having the flange therealong; a trunnion on the said one side of the one member for receiving a roll of tape; a plurality of radial ribs on the said one side of the one member; a head on the free end of the extension; and a tape severing blade on the head.

3. A dispenser for rolled tape comprising a pair of opposed disc-shaped members; a flange provided with an outlet opening bridging the distance between the members at the edges thereof; a trunnion integral with one of the members at its axis; a plurality of ribs integral with each member on the inner faces thereof and extending radially from the trunnion; a tongue integral with one of the members, extending radially therefrom and in the same plane therewith at the outlet opening in the flange; and a severing blade on the free end of the tongue, said severing blade being mounted on the tongue with the cutting edge thereof projecting laterally from the side of the tongue adjacent to the other member.

4. A dispenser for rolled tape comprising a pair of opposed members forming a housing, one of said members having an opening in one end thereof; a trunnion on the other member, within the housing to centrally and rotatably receive the tape roll; a tongue on said other member extending from the open end of the housing and terminating in an end free from said one member; and a severing blade on the free end of said tongue, said severing blade having an edge on each side of the longitudinal axis of the tongue.

5. A dispenser for rolled tape comprising a pair of opposed members forming a housing, one of said members having an opening in one end thereof; a trunnion on the other member, within the housing to centrally and rotatably receive the tape roll; a tongue on said other member extending from the open end of the housing and terminating in an end free from said one member; and an instrument for severing the tape on the free end of said tongue, said instrument having a pair of blades projecting laterally in opposite directions from the medial line of the tongue.

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