

Dec. 22, 1953

H. W. RODGERS
TAPE DISPENSER

2,663,510

Filed June 8, 1951

2 Sheets-Sheet 1

Fig. 1

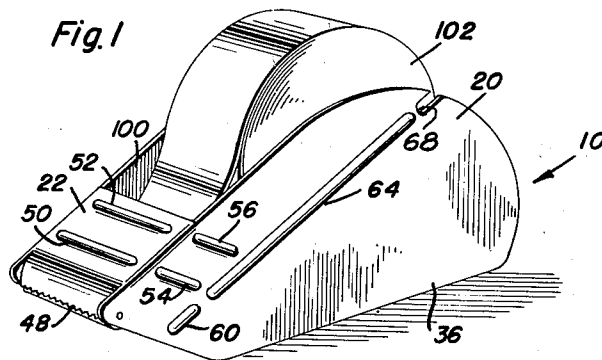


Fig. 5

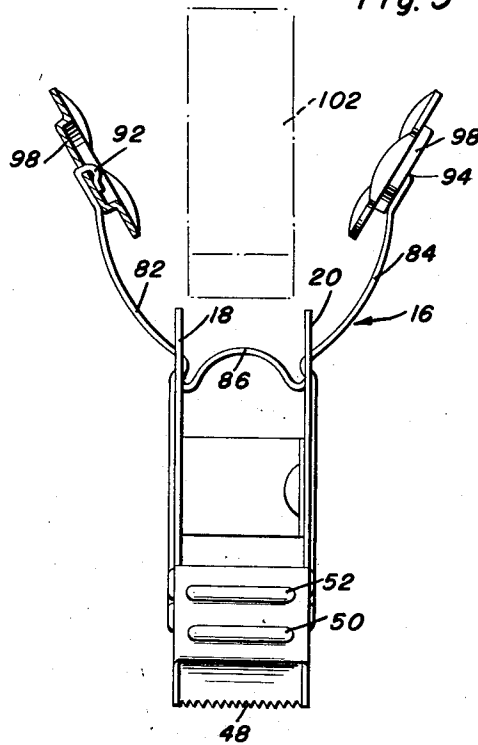


Fig. 4

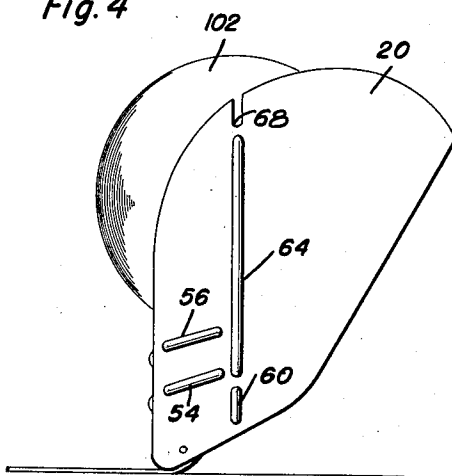


Fig. 6

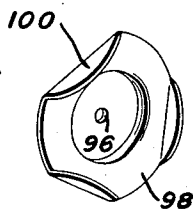
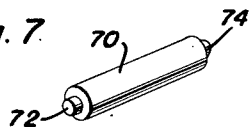


Fig. 7



Henry W. Rodgers

INVENTOR.

BY *Chance A. O'Brien*
and Harvey E. Jackson
Attorneys

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H. W. RODGERS

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Fig. 2

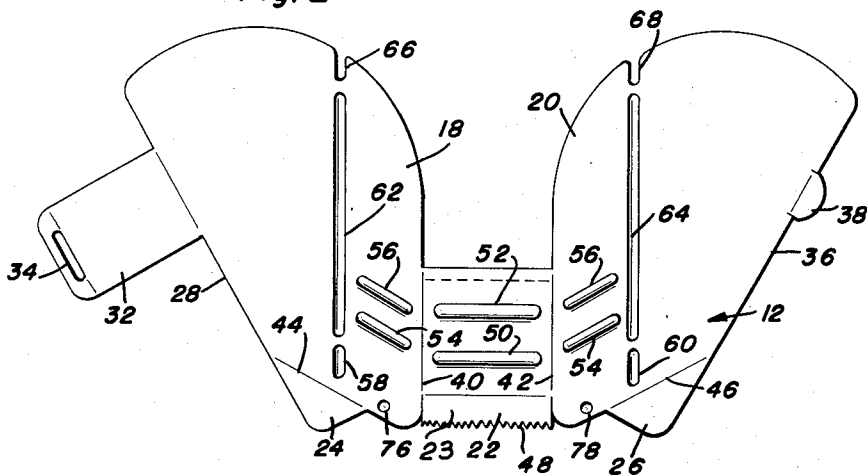


Fig. 3

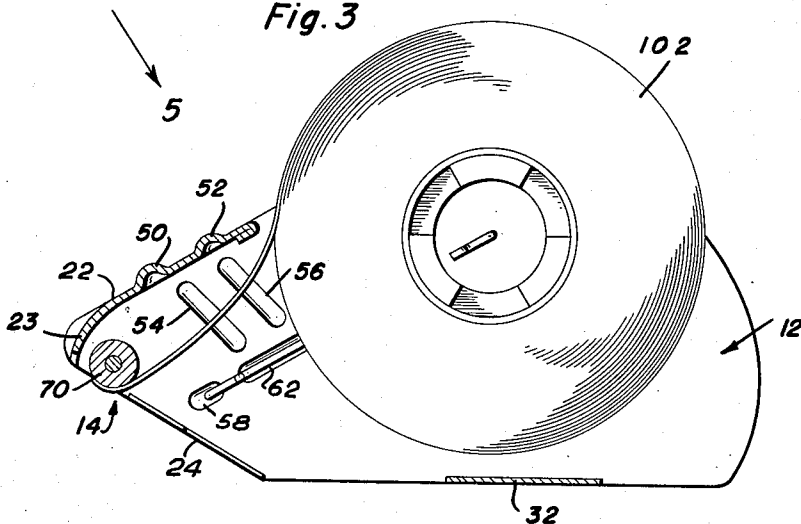
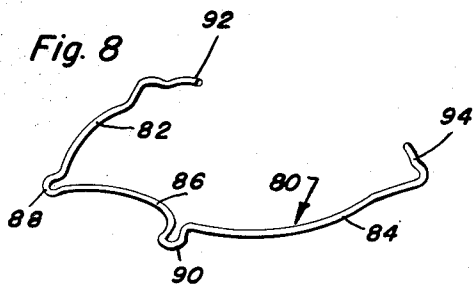


Fig. 8



Henry W. Rodgers

INVENTOR.

BY *Almonce A. O'Brien*
and *Harvey B. Jackson*
Attorneys

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TAPE DISPENSER

Henry W. Rodgers, Grinnell, Iowa

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8 Claims. (Cl. 242-55.5)

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The present invention relates to an improved tape dispenser and tape holder wherein means are provided for resiliently clampingly holding a roll of tape whereby the same can be readily replaced.

An object of the present invention is to provide an improved tape holding dispenser which can be economically manufactured from a stamped piece of sheet metal or the like and wherein a resilient means is provided for clampingly rotatably holding a roll of tape between the side walls of the casing whereby the tape can be dispensed therefrom and whereby the roll of tape can be readily replaced when used up.

Another object of the present invention resides in the novel construction of the side walls of the casing whereby the resilient means can be slidably received therebetween and maintained in fixed relation for supporting the roll of tape in preselected relation to the dispensing end of the casing.

Still another object of the present invention resides in the provision of the cutting edge on the casing whereby tape can be readily applied by manipulating the casing relative to the surface upon which the tape is being applied.

Various other objects and advantages will become apparent from the detailed description to follow. The best form in which I have contemplated applying my invention is clearly illustrated in the accompanying drawings, wherein:

Figure 1 is a detail perspective view of the tape dispenser;

Figure 2 is a top plan view of the casing of the tape dispenser shown in the stamped form before bending to shape;

Figure 3 is a vertical longitudinal sectional view through the tape dispenser showing a roll of tape mounted therein;

Figure 4 is a side view of the tape dispenser shown applying tape to a surface;

Figure 5 is a view of the tape dispenser as seen along the line of the arrow 5 in Figure 3 prior to clamping a roll of tape therein;

Figure 6 is a detail perspective view of the tape holding disk which forms one of the elements of the present invention;

Figure 7 is a detail perspective view of the roller associated with the casing of the tape dispenser; and

Figure 8 is a detail perspective view of the resilient wire which is adapted to be associated with the tape holding disk for holding a roll of tape.

Referring more particularly to the drawings, wherein like numerals designate like parts throughout, the numeral 10 designates generally the tape holding dispenser which is comprised of a stamped casing 12, roller means 14 and resilient tape holding means 16.

Looking now at Figures 1 and 2, the casing 12 will be seen to comprise a stamped piece of sheet

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metal or the like including side walls 18 and 20 joined by the top wall 22 having a forward portion 23, each of the side walls 18 and 20 being provided with a front wall portion 24 or 26. The bottom edge 28 of the side wall 18 has a flap 32 integrally formed therewith, the outer portion of the flap 32 having an elongated slot 34 formed therein. The opposing side wall 20 has its bottom edge 36 formed with a tongue 38 whereby when the side walls 18 and 20 are bent along the full lines 40 and 42, the tongue 38 can be engaged in the slot 34 for locking the bottom edges 28 and 36 in spaced parallel relation. The front wall portions 24 and 26 are bent along the full lines 44 and 46 while the top front wall 22 is formed with a severing edge 48 for cutting tape.

The top front wall 22 is formed with a pair of indentations 50 and 52 which serve to rigidify the casing. The side walls 18 and 20 are each provided with a pair of indentations 54 and 56 which constitute finger gripping portions whereby the tape dispenser can be manually held.

The side walls 18 and 20 are each further formed with a pair of small indentations 58 and 60 and enlarged elongated grooves 62 and 64 in alignment with the indentations 58 and 60. Furthermore, the side walls 18 and 20 are formed with open ended slots 66 and 68.

Figure 1 shows the casing 12 bent to its resultant form. In the resultant form, the roller 70, shown best in Figure 7, has its pintles 72 and 74 rotatably journaled in the openings 76 and 78 of the side walls 18 and 20. The top front wall 22 has its forward portion 23 downwardly arcuated for overlying the roller 70.

Looking now at Figures 5, 6 and 8, the resilient tape holding means 16 will be seen to comprise an elongated resilient piece of wire 80 of substantially U-shaped form, the leg portions 82 and 84 being arcuated outwardly while the bight portion 86 is upwardly arcuated, the outer portions of the bight portion providing a pair of arcuated portions 88 and 90 which are adapted to be engaged in the indentations 58 and 60 as will be presently understood. The free ends 92 and 94 of the wire 80 are engaged through the openings 96 formed in the tape holding disks 98 and angulated so that the tape holding disks 98 can be rotatably carried by the wire 80. The disks 98 have peripheral portions bent, as at 100, for engagement within the center portion of the conventional roll of tape, the tape holding disks 98 rotating the roll of tape and about the end portions 92 and 94 of the wire 80.

When a roll of tape 102 is to be placed in the dispenser, it is held between the pair of tape holding disks 98 in the manner shown in Figure 5. The resilient wire 80 is then moved for engagement in the open ended slots 66 and 68 whereby the wire will be guided to the enlarged elongated indentations or grooves 62 and 64. Upon engagement of the arcuated portions 82

and 24 between the side walls 18 and 20 and in the indentations 62 and 64, the tape holding disks 98 will be bridged together and in clamping relation on the roll of tape 102. Furthermore, the portions 88 and 90 of the wire 80 will be engaged in the smaller indentations 52 and 60 whereby the tape can be maintained in preselected position within the casing.

Thus, when it is desired to apply tape to a surface, the casing is held in the position shown in Figure 4 whereby the tape passes over the roller 70. When it is desired to cut the tape, the tape is merely twisted whereby the serrations 48 will sever the tape.

Having described the invention, what is claimed as new is:

1. A tape dispenser comprising a casing including a pair of side walls maintained in spaced relation by an interconnecting front wall, said side walls each having an elongated groove formed therein, each groove being in opposing relation to the groove in the opposite side wall, a pair of tape holding disks engageable with the opposite sides of a roll of tape, and resilient means interconnecting said disks and being frictionally engaged between said side walls in said grooves for supporting said tape within the casing.

2. A tape dispenser comprising a casing including a pair of side walls maintained in spaced relation by an interconnecting front wall, said side walls each having an elongated groove formed therein, each groove being in opposing relation to the groove in the opposite side wall, a pair of tape holding disks engageable with the opposite sides of a roll of tape, and resilient means interconnecting said disks and being frictionally engaged between said side walls in said grooves for supporting said tape within the casing, the forward edge of said front wall providing a tape severing edge.

3. A tape dispenser comprising a casing including a pair of side walls maintained in spaced relation by an interconnecting front wall, said side walls each having an elongated groove formed therein, each groove being in opposing relation to the groove in the opposite side wall, a pair of tape holding disks engageable with the opposite sides of a roll of tape, and resilient means interconnecting said disks and being frictionally engaged between said side walls in said grooves for supporting said tape within the casing, said resilient means including an elongated resilient wire having its free ends rotatably supporting said tape holding disks.

4. A tape dispenser comprising a casing including a pair of side walls maintained in spaced relation by an interconnecting front wall, said side walls each having an elongated groove formed therein, each groove being in opposing relation to the groove in the opposite side wall, a pair of tape holding disks engageable with the opposite sides of a roll of tape, and resilient means interconnecting said disks and being frictionally engaged between said side walls in said grooves for supporting said tape within the casing, said resilient means including an elongated resilient wire having its free ends rotatably supporting said tape holding disks, said wire being of substantially U-shaped form with its leg portions arcuated for resilient engagement with the inner surfaces of said side walls.

5. A tape dispenser comprising a casing including a pair of side walls maintained in spaced relation by an interconnecting front wall, said side walls each having an elongated groove formed

therein, each groove being in opposing relation to the groove in the opposite side wall, a pair of tape holding disks engageable with the opposite sides of a roll of tape, and resilient means interconnecting said disks and being frictionally engaged between said side walls in said grooves for supporting said tape within the casing, said resilient means including an elongated resilient wire having its free ends rotatably supporting said tape holding disks, said wire being of substantially U-shaped form with its leg portions arcuated for resilient engagement with the inner surfaces of said side walls, the bight portion of said wire having its end portions arcuated for resilient engagement in said indentations.

6. A tape dispenser comprising a casing including a pair of side walls maintained in spaced relation by an interconnecting front wall, said side walls each having an elongated groove formed therein, each groove being in opposing relation to the groove in the opposite side wall, a pair of tape holding disks engageable with the opposite sides of a roll of tape, said side walls each being provided with an indentation in alignment with said groove, and resilient means interconnecting said disks and engageable between said side walls with portions thereof engageable in said indentations and grooves for supporting said tape within the casing.

7. A tape dispenser comprising a casing including a pair of side walls maintained in spaced relation by an interconnecting front wall, said side walls each having an elongated groove formed therein, each groove being in opposing relation to the groove in the opposite side wall, a pair of tape holding disks engageable with the opposite sides of a roll of tape, said side walls each being provided with an indentation in alignment with said groove, and resilient means interconnecting said disks and engageable between said side walls with portions thereof engageable in said indentations and grooves for supporting said tape within the casing, said resilient means including an elongated resilient wire having its free ends rotatably supporting said tape holding disks.

8. A tape dispenser comprising a casing including a pair of side walls maintained in spaced relation by an interconnecting front wall, said side walls each having an elongated groove formed therein, each groove being in opposing relation to the groove in the opposite side wall, a pair of tape holding disks engageable with the opposite sides of a roll of tape, said side walls each being provided with an indentation in alignment with said groove, and resilient means interconnecting said disks and engageable between said side walls with portions thereof engageable in said indentations and grooves for supporting said tape within the casing, said resilient means including an elongated resilient wire having its free ends rotatably supporting said tape holding disks, the bight portion of said wire having its end portions arcuated for resilient engagement in said first indentations.

HENRY W. RODGERS.

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