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BELT SUPPORTED TAPE DISPENSER

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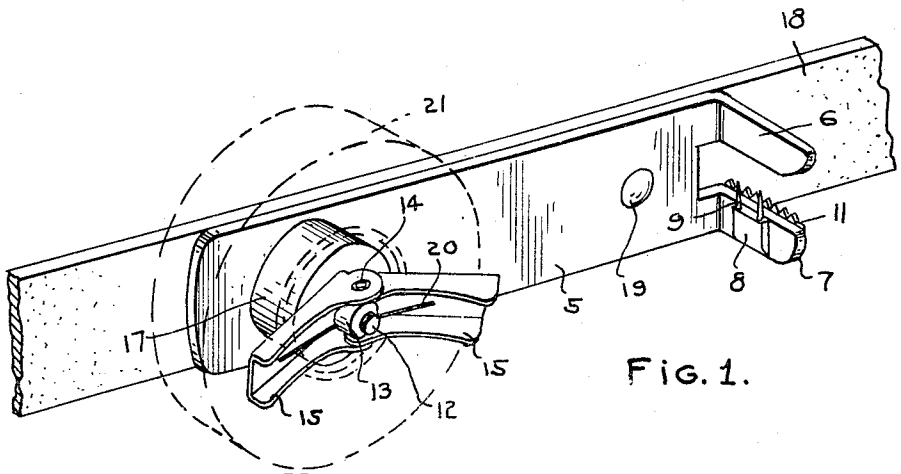


Fig. 1.

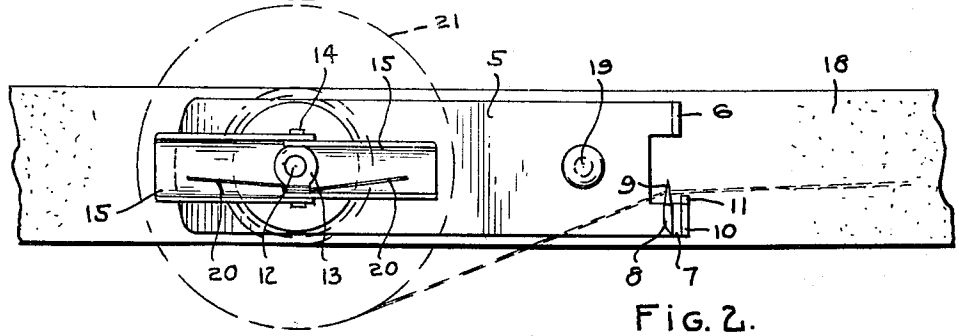


Fig. 2.

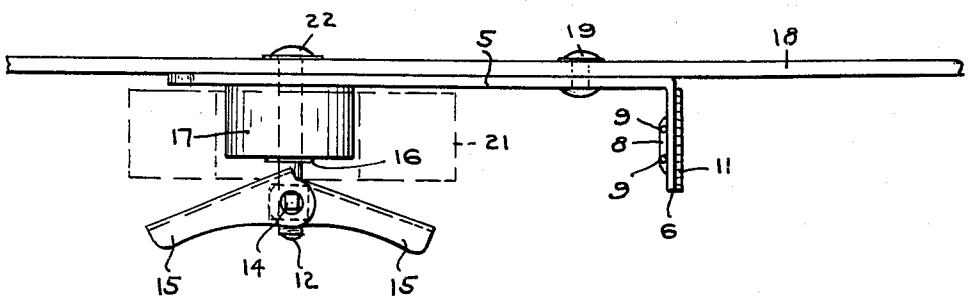


Fig. 3.

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BELT SUPPORTED TAPE DISPENSER

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2 Claims. (Cl. 225—78)

This invention relates to a dispensing device for dispensing friction tape or the like commonly employed by electricians and others.

The invention contemplates a holder for the rotatable support of a roll of friction tape and with novel means for yieldably holding the roll of tape upon a spool carried by the device.

A further object of the invention resides in a rigid frame element adapted to support a roll of friction tape or the like and with the element being fixedly connected to a human body encircling element, such as a flexible belt. The device also provides means for impaling and holding an extended end of the tape while it is being severed and with the tape being held against rewinding upon the roll after the severing action.

Novel features of construction and operation of the device will be more clearly apparent during the course of the following description, reference being had to the accompanying drawings wherein has been illustrated a preferred form of the device and wherein like characters of reference are employed to denote like parts throughout the several figures.

Referring to the drawings:

Figure 1 is a perspective view of a device constructed in accordance with the invention,

Figure 2 is a side elevation thereof and,

Figure 3 is a top plan view thereof.

Referring specifically to the drawings, the numeral **5** designates a bracket plate that is slotted at one end and bent at a right angle to form upper and lower spaced apart leg portions **6** and **7**. Fixed upon the inner side of the leg **7**, as by welding or the like, is a plate **8**, having at least two upstanding sharpened pins **9** that project partially across the slot. Fixedly connected to the opposite side of the leg **7**, as by welding or otherwise, is a plate **10**, having its upper edge projecting above the leg **7** and provided with sharpened serrations **11**, functioning as a tear-off means.

The plate **5** adjacent its opposite end is apertured to receive a stud **12**, the outer end of which is threaded to receive an adjusting nut **13**, having upper and lower leg extensions **14**, that pivotally support a pair of toggle arms **15**. Also supported upon the stud **12** and held against the plate **5**, by a collar **16**, is a cylindrical spool **17**. The stud **12** is adapted to pass through an aperture formed in a human body encircling member **18**, such as a belt to be worn by the electrician or other mechanic employing the device. The plate **5** is additionally held to the belt **18** by a rivet or the like **19**. The toggle arms **15** are biased inwardly by spring arms **20** and whereby to bias the arms **15** toward a spool of friction tape **21** that is supported upon the spool **17** and serving to support the spool against accidental displacement. The stud **12** is also preferably riveted to the inner side of the belt **18**, as at **22**.

In the use of the device, the bracket plate **5** having been connected to the belt **18**, by the rivets **19** and **22**, the operator then swings the arms **15** forwardly to engage

the usual opening in the spool of tape **21** and, when the spool of tape **21** is engaged with the spool **17**, the arms **15** are released and swing inwardly to overlie the central opening of the tape spool **21**, thus freely supporting the spool of tape for free rotation upon the spool **17** and also to prevent accidental displacement of the spool. When a predetermined length of tape is required for a particular job, the free end of the tape is pulled outwardly through the slot formed by the legs **6** and **7** and, after a sufficient length has been extended, the tape is forced downwardly over the pins **9**, to the point where it engages the serrations **11**. The extended end of the tape is then torn away by pulling downwardly and laterally to cause a tearing action upon the serrations **11**. The tape will thus be held against additional movement from the spool **21** by its engagement over the pins **9**, thus assuring that the tape will be accurately torn and with the remaining section being held by the pins **9**. The device readily adapts itself to any type of rolled tape that is adapted to be torn off in predetermined lengths and holds the rest of the tape from the spool **21** against falling downwardly or being rerolled upon the roll **21**. When an additional length of tape is desired, the end portion supported by the pins **9** is lifted upwardly and the tape fed outwardly between the legs **6** and **7** to a required length and then again forced downwardly to engage the pins **9**. The device is simple in construction, is strong, durable and most effective as a means for dispensing frictional or other types of tape commonly employed by electricians or other mechanics. The plate **5** and its arm **6** and **7** and the toggle arms **15** are preferably formed of metal having a high degree of resistance to corrosion and readily adapts itself to any type of human body encircling belt **18**.

It is to be understood that the invention is not limited to the precise construction shown, but that changes are contemplated as readily fall within the spirit of the invention as shall be determined by the scope of the subjoined claims.

Having described our invention, what we claim as new and desire to secure by Letters Patent is:

1. A dispenser for rolled tape, such as friction tape, that comprises an elongated base plate that is fixedly connected to a human body encircling belt, a stub shaft fixedly carried by the plate adjacent one end thereof and projecting outwardly therefrom, a spool supported upon the stub shaft, the stub shaft at one end being extended beyond the plate to have fixed engagement with respect to the belt, the stub shaft being also extended outwardly of the spool, yieldable toggle arms adjustably supported upon the last named extension of the stub shaft that are adapted to yieldably overlie a roll of tape supported upon the spool, the opposite end of the plate being provided with a pair of forwardly extending and right angularly disposed leg portions that are vertically spaced apart and that constitute guide means for an extended end of the tape from the roll, means carried by one leg for impaling the extended end of the tape for holding the tape against endwise movement and means carried by the same leg whereby to tear away that portion of the tape that extends beyond the impaling means.

2. A dispenser device for rolled friction tape or the like that is adapted to be supported upon a flexible human body encircling belt, comprising an elongated flat base plate that is slotted at one end and angled at a right angle to form upper and lower forwardly extending and spaced apart leg portions, the plate adjacent its opposite end being apertured for the passage of a stub shaft, the shaft being extended from the plate at its rear side for fixed engagement in an aperture formed in the belt, a cylindrical spool supported upon the stub shaft forwardly of the plate whereby to receive a central opening of the roll of tape, the stub shaft also extending outwardly be-

yond the spool for the mounting support of a pair of toggle arms, the stubshaft at its outer end being threaded whereby the toggle arms are adjustably engaged with the stub shaft, spring means for biasing the toggle arms toward the roll of tape supported upon the spool, the said toggle arms being yieldable forwardly to receive the roll of tape, the lower leg of the base plate upon its inner side being provided with upstanding impaling pins for impaling an extended end of the tape, the impaling pins partially extending across the opening between the legs, the said lower leg upon its opposite side being provided with an upstanding serrated cutting plate and with the impaling pins and the cutting plate being in line of movement of an extended end of the tape from the roll, the base plate inwardly from the slotted end being additionally riveted to the belt.

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