J. K. TOLES.

COMBINED SPOOL AND CUTTER.

APPLICATION FILED DEC. 8, 1910.

1,018,945. Patented Feb. 27, 1912.

Fig. 1

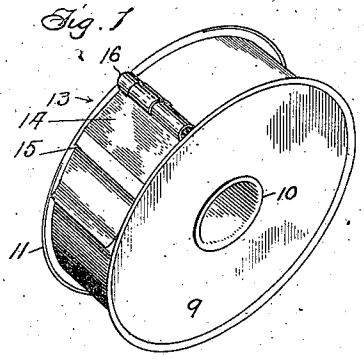


Fig. 3

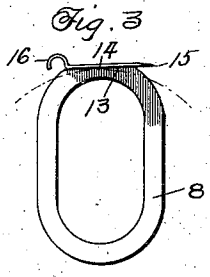


Fig. 2

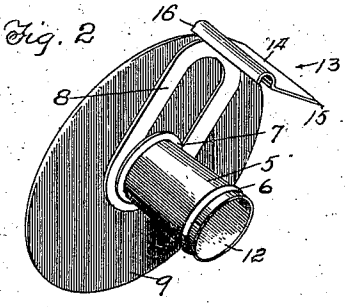


Fig. 7

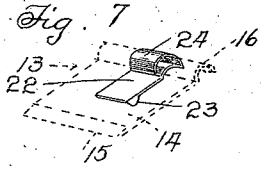


Fig. 4

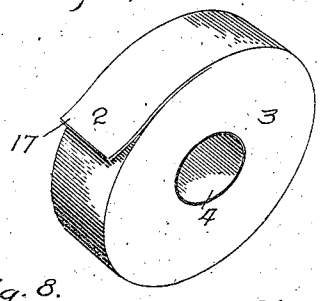


Fig. 5

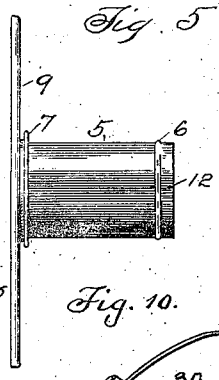


Fig. 9.

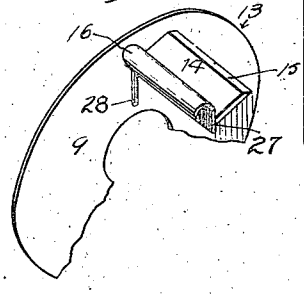


Fig. 8.

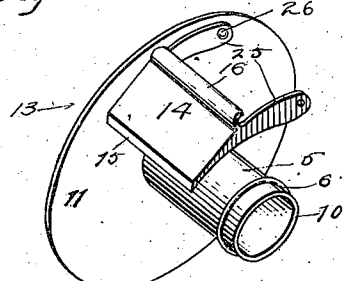
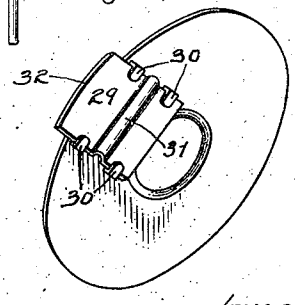


Fig. 10.



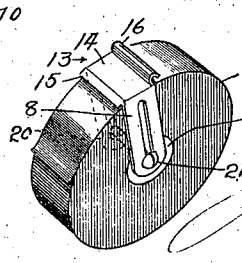


Fig. 6.

Witnesses

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UNITED STATES PATENT OFFICE.

JUSTIN KAY TOLES, OF BERKELEY, CALIFORNIA.

COMBINED SPOOL AND CUTTER.

1,018,945. Specification of Letters Patent. Patented Feb. 27, 1912.

Application filed December 8, 1910. Serial No. 596,233.

To all whom it may concern:

Be it known that I, JUSTIN KAY TOLES, a citizen of the United States of America, residing at Berkeley, in the county of Alameda, State of California, have invented a certain new and useful Combined Spool and Cutter; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a combined spool and cutter, and it may be said to consist in the novel construction, arrangement and combination of the parts as will appear from the description and claims hereinafter.

One object of the invention is to provide a device of the class specified in which the cutter is conveniently arranged in a novel manner and adapted to act effectively to sever a strip of adhesive plaster, tape, or the like, unwound from a coil.

Another object of the invention is to provide a construction for the device whereby the cutter is movable toward the axis of the spool to be in close proximity to the outer layer of adhesive plaster, tape, or the like, in the coil.

Still another object of the invention is to provide a construction for the device whereby the cutter is movable around the axis of the spool.

A further object of the invention is to provide a construction for the device whereby the coil of adhesive plaster, tape, or the like, is movable around the axis of the spool.

A further object of the invention is to provide a slitting blade movable transversely of the cutting blade.

A further object of the invention is to provide a construction for the device whereby the cutter is movable around and toward the axis of the spool as the adhesive plaster, tape, or the like, is unwound from the coil on the spool.

Further objects of the invention are to provide a device of the class specified which is strong, simple in construction and economical to manufacture, effective in use, and possessed of features which make it practical and marketable, and in which the cutter is adapted to leave the end portion of the strip or tape loosened from the coil, to permit of readily grasping the same.

Other objects and the advantages of the invention will be apparent to those skilled in the art from a consideration of the following forms of construction in which it may be embodied, taken in connection with the accompanying drawings, in which,

Figure 1 is a perspective view of a device having the invention applied thereto; Fig. 2 is a perspective view of a portion of the device; Fig. 3 is an elevation of the cutter mounted on the guide; Fig. 4 is a perspective view of a strip of adhesive plaster, tape, or the like, wound on a hollow cylindrical part; Fig. 5 is an end elevation of the parts shown in Fig. 2, the cutter and guide being omitted; Fig. 6 is a perspective view of the cutter combined with a wooden core or spool on which adhesive insulating tape is wound; Fig. 7 is a perspective view showing the slitting blade mounted on the cutter, the latter being indicated by dotted lines; Fig. 8 is a perspective view of a modified construction, showing a portion of the spool and the cutter pivotally mounted thereon; Fig. 9 is a perspective view of a modified construction, showing a portion of the side plate of the spool and a cutter mounted to move radially of the axis of the spool; Fig. 10 is a perspective view of a modified construction, showing the cutter mounted on the side plate of the spool to move radially of the axis of the spool.

Referring to Figs. 1 to 5 inclusive, the strip 2 of adhesive plaster or the like may be wound to form a coil 3 on the sleeve 4. The hollow cylindrical part 5 may be formed with an annular bead 6 near one end thereof and with a portion thereof, near its other end, crimped or pressed together to provide the collar 7. A slotted guide 8 may be passed over the end of the part 5 and disposed to engage the outer side of the collar 7, and the preferably annular side plate 9 may then be placed adjacent to the guide 8 on the part 5, whereupon the end portion 10 of the part may be burred over in a well known manner to hold the side plate in position. The sleeve 4 carrying the coil 3 may be disposed on the part 5 to abut against the collar 7 and the preferably annular side plate 11 may then be placed over the end portion 12 of the part 5 to abut against the bead 6, whereupon that portion of the end portion 12 extending beyond the outer face of the side plate 11 may be burred over to hold the side plate in position. On

one end of the guide 8 is a cutter 13 which preferably consists of a blade 14 provided at one end thereof with a cutting edge 15 of substantially the width of the adhesive plaster or tape, and at the other end thereof with a fingerpiece 16. As shown more clearly in Fig. 3, the cutter 13 is preferably arranged to have the cutting edge 15 elevated at a sufficient distance from the outer layer of the coil 3 to permit of cutting the unwound portion of the strip of adhesive plaster or tape so as to leave the end portion 17 of the strip or tape loosened from the coil and turned up so that it may be readily grasped by the fingers when it is desired to unwind another portion of the strip or tape.

In Fig. 6 is shown a modified construction for the device. In this case, the core or spool 18 carrying a coil 19 of insulating tape or the like may be of wood and the guide 8 carrying the cutter 13 may be arranged in position thereon by means of a pin 20 passing through the slot of the guide and secured to the spool at its axis; the head 21 serving to retain the guide in place adjacent to the spool.

In Fig. 7 is shown a slitting blade 22 which preferably has its longitudinal cutting edge 23 on the underside thereof and is disposed on the underside of the cutter 13 and provided with a part 24 thereon which is formed and adapted to be fitted over the finger piece 16 on the cutter to permit of the slitting blade being moved transversely of the cutter to the desired position for cutting longitudinally of the strip of adhesive plaster or the like.

As shown in Fig. 8, the cutter 13 may be carried by arms 25 which may each be pivotally mounted on the side plates of the spool by means of a rivet 26 attached to the sideplate near the periphery thereof.

Fig. 9 illustrates a modified construction in which the cutter 13 may be mounted on the side plates of the spool to move radially of the axis of the spool; the cutter being provided with side extensions 27 which may be fitted in radial slits 28 in the side plates.

Fig. 10 illustrates another modified construction in which the cutter 29 is mounted on the outer face of one of the side plates and is adapted to move radially of the axis of the spool. As shown, the cutter 29 may be guided in its movement and be held in place on the side plate by means of lugs 30 which may be pressed out portions of the side plate bent to extend over the cutter at the sides thereof. The cutter 29 may be manipulated at will by means of the elevated portion 31 to have the cutting edge 32 extended either above or below the edge of the side plate, the portion 31 being adapted to coact with the lugs 30 to limit the extent of movement of the cutter.

While diverse forms of construction in which the invention may be embodied have been illustrated and described, there are many changes and modifications thereof that will readily occur to those skilled in the art, and the right is therefore reserved to all such changes and modifications as do not depart from the spirit and scope of the invention.

I claim:

1. In a device of the character described, the combination of a spool, a rolled strip upon the spool, a slotted guide mounted upon one end of the spool so as to be adjustable radially thereon, and a blade carried by the slotted guide and bearing against the periphery of the rolled strip so as to be engaged by the unwound portion thereof for severing the same.

2. In a device of the character described, the combination of a spool, a rolled strip upon the spool, a slotted guide adjustably mounted upon one end of the spool so as to be movable radially thereon, a plate projecting laterally from the slotted guide and bearing against the periphery of the roll so as to be readily engaged by the unwound portion of the strip for severing the same, and a slitting member mounted upon the plate and projecting therefrom so as to slit the strip longitudinally as it is unwound from the roll.

3. In a device of the character described, the combination of a spool, a rolled strip mounted upon the spool, a guide member mounted upon one end of the spool, a plate carried by the guide member and bearing against the periphery of the roll, one side of the plate being formed with a cutting edge while the opposite side of the plate is formed with a finger piece, and a slitting member formed with a returned portion detachably engaging said finger piece, the slitting member serving to slit the strip as it is unwound from the roll.

4. In a device of the character described, the combination of a spool, a rolled strip upon the spool, a guide member mounted upon one end of the spool, a blade carried by the guide member and bearing against the periphery of the spool, one side of the blade being formed with a cutting edge adapted to be employed for severing the unwound portions of the strip, and a slitting member formed with a returned portion adjustably engaging an edge of the plate, the said slitting member projecting inwardly so as to slit the strip longitudinally as it is withdrawn from the roll.

5. In a device of the character described, the combination of a cylinder provided adjacent one end with a collar, side plates applied to the ends of the cylinder, a rolled strip upon the cylinder, a slotted guide receiving the cylinder and mounted between

the collar and the adjacent side plate so as to be radially adjustable, and a blade carried by the slotted guide and bearing against the periphery of the rolled strip.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses at Los Angeles county of Los Angeles, State of California, this 3rd day of December A. D. 1910.

JUSTIN KAY TOLES.

Witnesses:
HARRY A. BROOKS,
ALEX. H. LIDDERS.