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J. L. MAY
TYPEWRITER REEL
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Fig. 1.

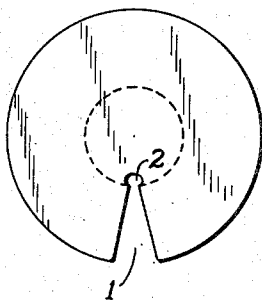


Fig. 2.

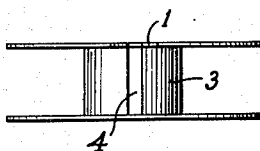
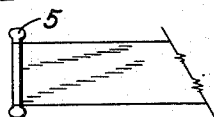


Fig. 3.



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TYPEWRITER REEL

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Application May 31, 1940, Serial No. 338,247

1 Claim. (Cl. 242-74)

My invention relates to typewriter reels with ribbon pin attachment for same, and has for its object to provide an easy and efficient and novel means of attaching typewriter ribbons to typewriter reels, making it possible to insert a new ribbon in the empty reel without the necessity of removing the empty reel from the machine to insert said ribbon.

In inserting new ribbons in prior typewriter reels it is necessary to remove the empty reel, insert the new ribbon through a perpendicular pin, or on over an arrow-like point, on the cylindrical hub of said reel.

To accomplish the change it is necessary to fish with the hook on the ribbon for the pin on the reel, or use pressure, either with the finger or other means, to force the ribbon against the pin point of the arrow on the reels as now made.

This operation causes considerable annoyance and is often insecure, requiring two or three attempts oftentimes before the attachment is secure, with resultant loss of time to the operator, and resultant grimy hands.

With my device I provide a novel secure attaching means without difficulty of operation. The change may be made without removing the empty reel from the machine, and provides a much quicker and easier novel method and means for quickly and securely replacing a used typewriter ribbon with a new ribbon. The present invention also provides a novel typewriter spool and novel means for attaching a typewriter ribbon to said spool.

These objects I accomplish with the device illustrated and described in the accompanying drawing and specification in which like numerals indicate like parts throughout the several views.

In the drawing I have shown an exemplary embodiment of my invention and a preferred manner of applying its principles.

Figure 1 is a top plan view of my reel;

Figure 2 is a side elevation thereof;

Figure 3 is a plan view of an end portion of a typewriter ribbon including my novel separable fastening means.

As clearly shown in the figures briefly described above, a keyhole-shaped slot 1 is formed in the top and bottom disc-like flanges of the reel and this slot extends inwardly from the periphery of the flanges to a circular opening 2, shown in Fig. 1, the slot being of such length as to position the circular opening immediately below the cylindrical wall of the hub member 3 as shown in Figs. 1 and 2. As is best shown in

these figures, the cylindrical hub is longitudinally split so as to provide an axial slit 4, the slit being sufficiently wide to permit the free passage of a ribbon such as a typewriter ribbon but narrow enough to retain the body of the pin 5. The pin 5 which is best shown in Fig. 3, may be made of wood, metal, or other suitable material and is secured to one end of the ribbon. This pin which is formed with enlarged heads at opposite ends thereof has a body slightly longer than the distance between the disc-like flanges of the reel so that when the ribbon is inserted edgewise in the slots 1 and the pin 5 is inserted endwise in the circular inner end of this slot so as to underlie the sides of the slit 4 in the cylindrical body of the reel, the heads of the pin will project slightly beyond each flange. The enlarged ends of pin 5 are small enough to pass through the holes 2.

In operation, it will be assumed that the reel is rotatably supported in a horizontal position in a typewriter with one face or flange of the reel containing the keyhole slot 1 with its circular inner end 2, facing upwardly. The pin 5 which is attached to one end of the typewriter ribbon is then held in a vertical position over the circular opening 2 and the ribbon extended in a horizontal position over the slot 1 so that they may be readily attached to the reel by merely lowering the pin endwise into the circular inner end of the slot where the body of the pin will take a position beneath the cylindrical wall of the hub member 3. In so doing the ribbon has also been moved through the slot 1 between the flanges of the reel in which position the pin is held under tension by the attached ribbon which holds the heads of the pin in a position overhanging the circular ends of the flange slots, and thereafter preventing longitudinal separation of these parts. When it is desired to remove the ribbon from the reel, the operation just described may be reversed and after relieving tension on the pin so as to center the pin within the circular opening, the ribbon and pin may be lifted bodily through the slot 1 of the reel.

While the present invention is directed particularly to typewriter ribbons, it is not intended to be limited thereto but contemplates all modifications of the invention within the spirit and scope of the appended claim.

Having thus described my invention I desire to secure by Letters Patent and claim:

A reel comprising a longitudinally split hub member and opposed flange members joined to opposite ends thereof, the split in said hub mem-

ber providing an axial slit of a width to snugly receive a ribbon and said flange members each having a radial key-hole shaped slot, each of said slots having its narrowest portion in alignment with the sides of the slit and its sides diverging outwardly from the sides of the slit with its circular inner end behind the slit, a pin carried by one end of a ribbon and having enlarged heads at opposite ends thereof, said pin having a body of slightly greater length than the distance between the flange members and of a

greater diameter than the width of the slit and narrowest portion of the flange slot so as to be laterally retained thereby, and the circular inner end of each flange slot being of slightly greater diameter than that of the heads of the pins, whereby when the pin is inserted in the circular inner ends of the flange slots and placed under tension by the attached ribbon the heads of the pin will overhang the circular ends of the flange slots to prevent longitudinal separation thereof.

JEAN L. MAY.