

No. 707,098.

Patented Aug. 19, 1902.

F. O. GARRISON.

RIBBON FASTENER FOR TYPE WRITING MACHINES.

(Application filed Aug. 31, 1901.)

(No Model.)

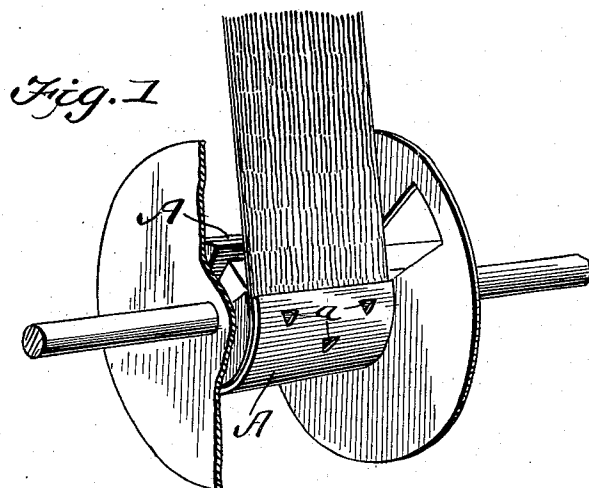


Fig. 2.

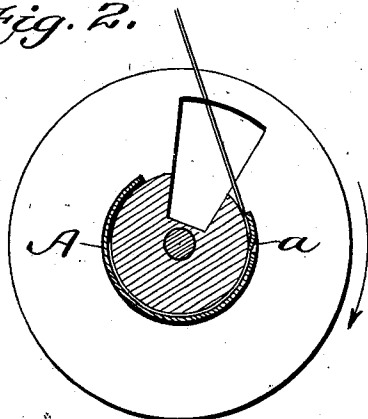


Fig. 3

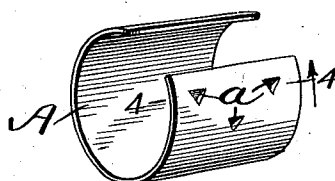


Fig. 4.



Inventor

F. O. Garrison.

By

Marshall

Attorneys

Witnesses

M. Blouet
Clarence. Shaw

UNITED STATES PATENT OFFICE.

FRANK O. GARRISON, OF PORTLAND, OREGON.

RIBBON-FASTENER FOR TYPE-WRITING MACHINES.

SPECIFICATION forming part of Letters Patent No. 707,098, dated August 19, 1902.

Application filed August 31, 1901. Serial No. 73,967. (No model.)

To all whom it may concern:

Be it known that I, FRANK O. GARRISON, a citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented a new and useful Improvement in Ribbon-Fasteners for Type-Writing Machines, of which the following is a specification.

My invention is an improved ribbon-fastener for type-writers, and has for its object to provide a simple, inexpensive, and easily-operated device for securely fastening the ends of the inked ribbon to the spool of the type-writer. In carrying out this object I provide a spring-band of sufficient stiffness to hold the ribbon securely in place and of such width as to snugly fit within the spool, thereby causing the ribbon to lie flat, thus keeping it straight when stretched across the machine.

A further object of my invention is to provide the inner contacting surface of the band with teeth or milled surfaces to engage the ribbon, and thus prevent it from slipping; and the invention also consists in certain details of construction, as will appear in the following specification and pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 represents a spool of a type-writer with one of the sides broken away, showing my improvement in place. Fig. 2 is a sectional view of the same, showing a portion of the ribbon wound upon the band or holder. Fig. 3 is a perspective view of the holder detached. Fig. 4 is a sectional view of the same, taken about on the line 4 4 of Fig. 3.

In carrying out my invention I employ a band A, preferably made of spring metal bent to semicircular form and having spurs *a*, arranged near one end thereof. These spurs are preferably three in number, two being arranged near the end of the band and the other arranged centrally of the width of the band, but farther from the edge, as shown. In practice these spurs are stamped from the metal at the same time the band is stamped or cut, but are not pushed entirely through, being only far enough to project on an angle to the line of the band proper.

By arranging the spurs at a distance from the tip end of the band the band can be more readily pressed upon the spool, owing to the smooth inner face of the imperforate portions, and both ends can be pressed over the

spool, which could not be done if the prongs projected radially inward from one end of the band. In addition to this inward projection of the prongs with their rearward inclination enables them to readily slip from the ribbon upon the spool and yet engage therewith and prevent its withdrawal after the band has been slipped into position.

In practice the ends of the ribbon are lapped around the spools for a short distance, as shown in Fig. 1 of the drawings. The band is then slipped over the core of the spools and ribbon, which securely holds it in place, and it will thus be seen that the necessity of attaching a short strip of fabric to the spools to which the ribbon is pinned is avoided, and therefore the disagreeable features incident thereto obviated.

It will of course be seen that the band is of a width equal to the distance between the sides of the spool, which allows the ribbon to be wound evenly and preserve its shape when attached across the machine, and it will be further understood that the ends of the band are not formed to meet, but a small space is left, so the dog or pawl for operating the catch for locking the spool, as in the Remington machine, will not be interfered with.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A fastener for type-writer ribbons, comprising a substantially circular band, one of the ends of which is provided with inwardly and rearwardly extending spurs near its tip or extremity, substantially as described.

2. A fastener for type-writer ribbons comprising a substantially circular band, one of the ends of which is provided with three inwardly and rearwardly extending spurs, said spurs being at a distance from the tip, and the center one being farther from the tip than the other two.

3. In a type-writer-ribbon holder, a spool, and a substantially circular band thereon, the ends of the band being normally at a distance from each other, and one of them provided at a distance from its tip with inwardly and rearwardly extending spurs adapted to engage with the ribbon and hold it upon the spool.

FRANK O. GARRISON.

Witnesses:

FRANK S. GRANT,
DELL STUART.