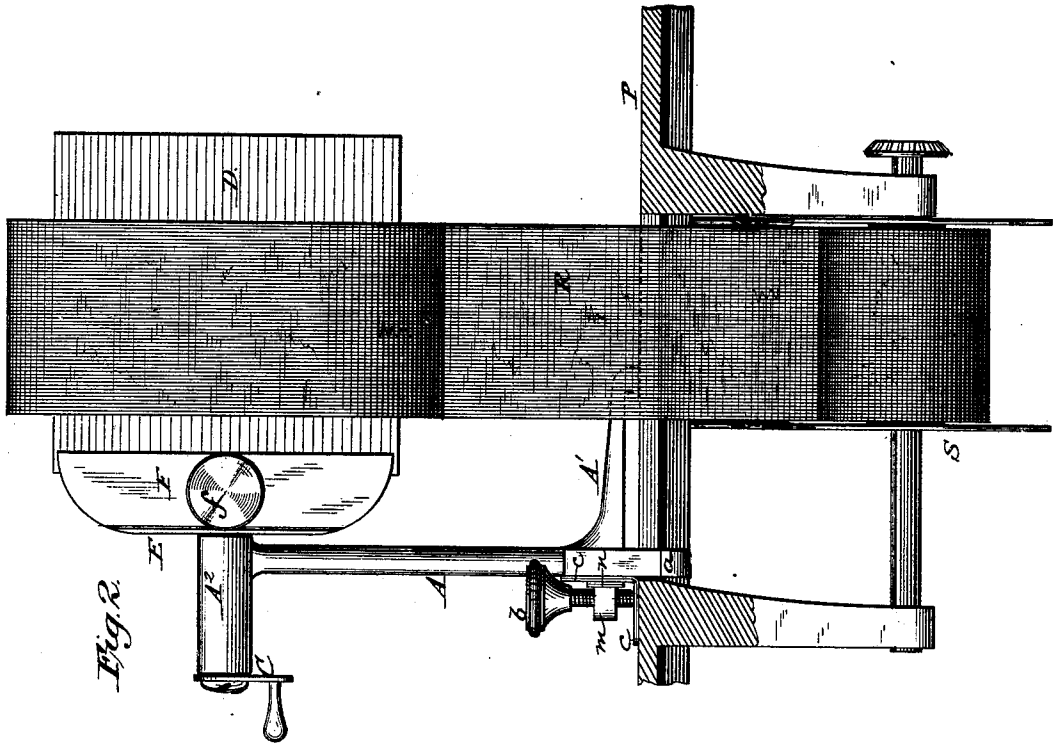
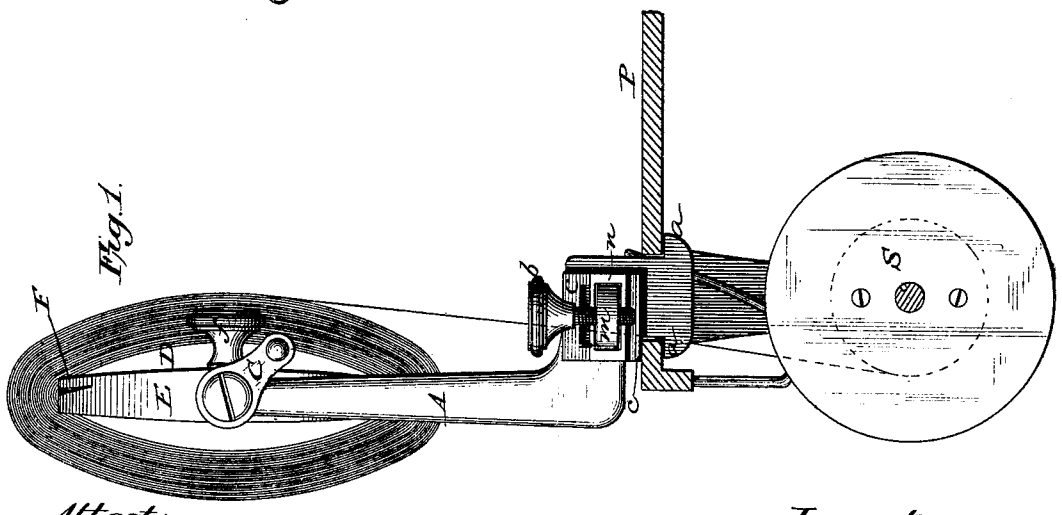
(Model.) 2 Sheets—Sheet 1.

W. K. JENNE.

Reel for Type Writing Machines.

No. 229,707. Patented July 6, 1880.





Attest:

Sidney P. Hollingsworth

William W. Dodge.

Inventor:

W. K. Jenne,

by Dodgerson,

Attys.

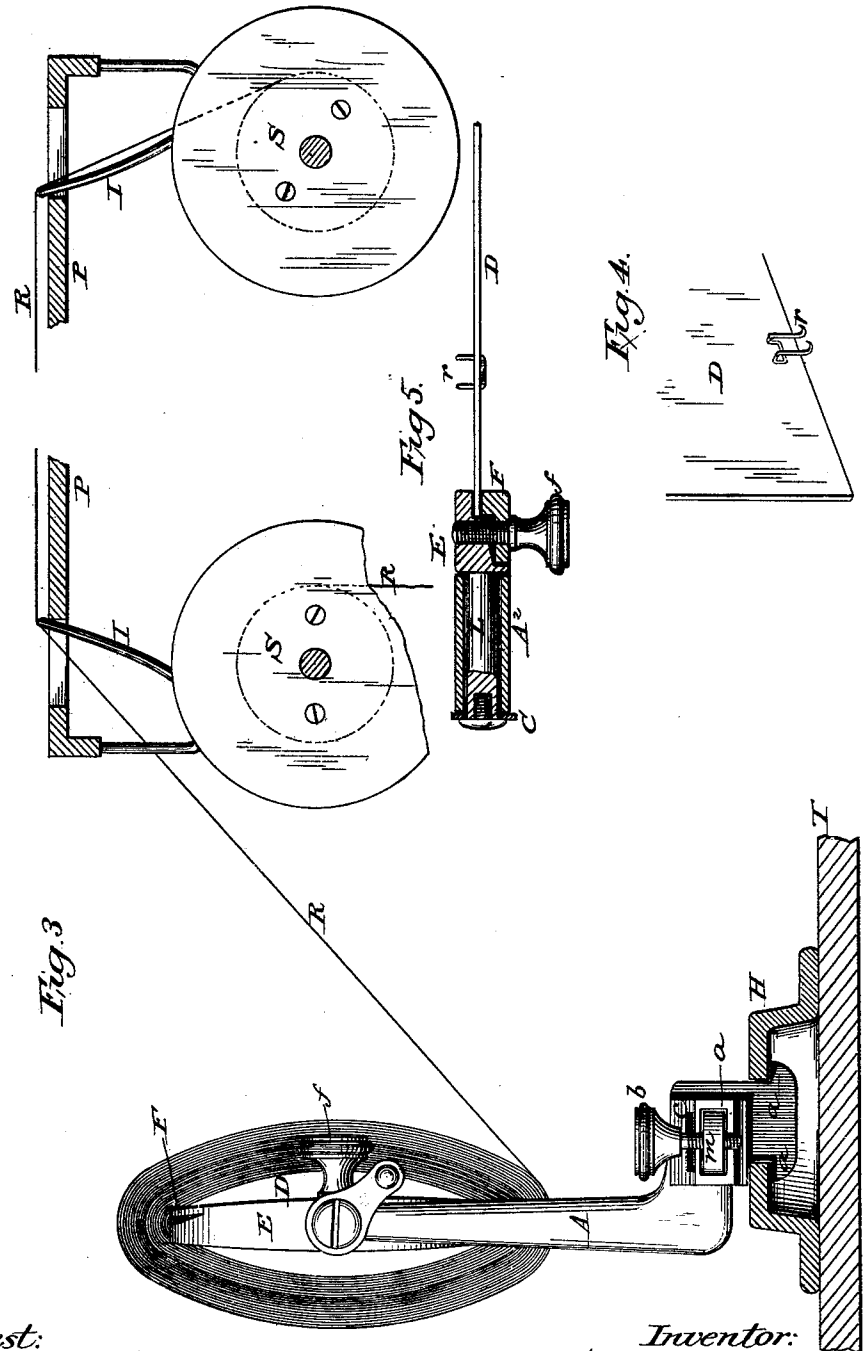
N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

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UNITED STATES PATENT OFFICE.

WILLIAM K. JENNE, OF ILION, NEW YORK, ASSIGNOR TO E. REMINGTON & SONS, OF SAME PLACE.

REEL FOR TYPE-WRITING MACHINES.

SPECIFICATION forming part of Letters Patent No. 229,707, dated July 6, 1880.

Application filed April 24, 1880. (Model.)

To all whom it may concern:

Be it known that I, W. K. JENNE, of Ilion, in the county of Herkimer and State of New York, have invented certain Improvements in Reels for Type-Writers, of which the following is a specification.

My invention consists in a reel of novel construction, to be used in connection with type-writers, whereby the inked ribbon used with these machines can be more readily removed and replaced without soiling the fingers, and whereby, also, the reel can be made to serve temporarily as a spool, when it is desired to change for a brief period the color of the ink used, all as hereinafter more fully set forth.

Figure 1 is an end elevation of my improved reel attached to the bed-plate of a type-writer as it is to be used in removing or replacing the ink-ribbon. Fig. 2 is a side elevation taken at right angles to Fig. 1. Fig. 3 is an end elevation of the reel, with a portion of the machine shown in section, illustrating the method of using the reel as a substitute for one of the spools ordinarily used; and Figs. 4 and 5 are sectional views, showing, in detail, the construction of portions of the reel and the ribbon-holder used therewith.

As is well known, the ink used in type-writers is supplied by means of a ribbon which is saturated with the ink of any desired color, which ribbon is wound upon two spools suitably mounted below the bed-plate of the machine, and which spools are provided with suitable gear so connected with the operating parts of the machine as to wind the ribbon alternately from one to the other of these spools, the ribbon passing through guides, which cause it to travel across the space where the type strike to imprint the characters upon the paper. For illustration, the spools are indicated in the drawings by the letter S, and the bed-plate of the machine by the letter P, only so much of these being shown as is necessary to illustrate the manner of applying or using my improved reel.

The reel heretofore used has consisted of a shaft having a crank at one end and a cross-arm at the other, this cross-arm being provided with two studs which project therefrom at right angles, thus standing parallel with the shaft, these studs forming the ribbon-holder, on which the ink-ribbon is wound. One of the studs is made adjustable in the cross-arm, so that after the ribbon has been wound thereon it can be moved nearer to the other stud, thus loosening the ribbon, so it can be removed without unwinding it, and so that the loose roll of ribbon can be slipped thereon preparatory to transferring it to the spools of the machine. With this style of reel the inked ribbon has to be taken in the hand, and as the ink is easily transferred from the ribbon it is very annoying to the person using the machine. The object of my invention is to obviate this annoyance and at the same time to so construct and apply my improved reel that it can be used in lieu of one of the bobbins when it is desired to temporarily change the color of the ink used.

My improved reel, as shown in Figs. 1, 2, 3, and 5, consists of a shaft, L, Fig. 5, having a crank, C, at one end, and a pair of clamping-jaws, E F, at the opposite end, the jaw E being rigidly secured to the shaft, and the jaw F being secured to the jaw E by a clamping-screw, *f*, as shown more clearly in Fig. 5, the object of these clamping-jaws being to hold the ribbon-holder D, on which, in this case, the inked ribbon is to be wound.

The shaft L is mounted in a sleeve, A^2, which is supported on a standard, A, as shown in Figs. 1, 2, and 3, this standard at its lower end being of such a width as to fit into the slot of the bed-plate P of the machine, through which the ribbon passes, as shown in Fig. 1, the lower end of the standard projecting below the bed-plate, and being provided on opposite sides with lugs or shoulders *a a*, to engage against the under side of the plate P, as represented in Figs. 1 and 3.

On the back side of the standard A, a short distance above the lugs *a*, there is a projecting lug, *m*, in which is fitted a thumb-screw, *b*—a friction or clamping plate, *c*, and a washer, *n*, being slipped onto this lug *m* before the screw *b* is inserted, and the lower portion of the plate *c* being bent to a horizontal position, as shown in Fig. 2, so as to rest upon the top of the bed-plate P and form a bearing for the point of the screw *b*. The standard A is also provided with a horizontally-projecting foot,

A′, which serves to hold the standard A in an upright position when secured in place, and which is readily done by turning it sidewise until the T-head formed by the lugs *a a* will enter the oblong slot in the bed-plate, when it is swung around, so that the foot-piece A′ will rest upon the bed-plate, as indicated in Fig. 2, when it is fastened securely in place by merely tightening the screw *b*.

In order to enable the ribbon to be wound and unwound, and to be transferred from the reel to the machine, or vice versa, without soiling the fingers, I provide a ribbon-holder, D, of any suitable construction, so it can be held by the clamping-jaws of the reel on which to wind the ribbon. Ordinarily this ribbon-holder may consist of a simple piece of pasteboard or any similar cheap material, somewhat longer than the ribbon is wide, so that while one end is held by the jaws of the reel its opposite end will project beyond the ribbon, as shown in Fig. 2, and thus enable it to be handled without touching the ribbon. While this form of ribbon-holder will answer for ordinary use in transferring the ribbon to or from the spools on the machine, yet when it is desired to use the reel temporarily as a substitute for one of the spools, as hereinafter explained, it will be better to make the ribbon-holder of a piece of pasteboard doubled, so it can be swelled out, as represented in Figs. 1 and 3, and made to assume more nearly the form of a cylinder, in order that the ribbon, as it is drawn from the reel by the spool at the opposite side of the machine, as shown in Fig. 3, will be drawn off more evenly and with regularity; or, if preferred, the ribbon-holder may be made in the form of an open-ended cylinder, with a flat piece projecting from its center at one or both ends for the jaws to take hold of, while the ribbon itself will be wound upon the cylindrical portion. In either case the ribbon-holder D is to be provided with one or more small hooks or points, *r*, Fig. 4, upon which to fasten the end of the ribbon.

The reel is to be used as follows: Suppose it be desired to remove an exhausted ribbon from the machine. In such case the reel is to be secured to the bed-plate P, as shown in Fig. 1, when the end of the ribbon will be released from the spool at the opposite side of the machine and be fastened to the hook *r* of the ribbon-holder D; after which it is only necessary to turn the reel by its crank C, which will draw the ribbon off the spool S and wind it on the ribbon-holder D.

To place another ribbon in the machine, the ribbon-holder will be removed from the reel, and one having a freshly-inked ribbon on it will be substituted. The loose end of the ribbon will then be fastened to the spool S in the usual manner, when, by turning the spool (which is provided with means for that purpose) the ribbon will be drawn off the ribbon-holder and be wound on the spool; after which its loose end will be carried across the machine and secured to the spool at the opposite side, as usual.

In case it is desired to temporarily use a ribbon having ink of a different color, it can be done without removing the one being used entirely from the machine, as follows: The reel in such case is to be secured to the table T, on which the machine is placed, and which is usually below the bed-plate of the machine, as represented in Fig. 3, there being a suitable plate, H, fastened upon the table, to which the reel can be clamped in the same manner as it is to the bed-plate itself. The ribbon in the machine will have its end released from the spool at the opposite side and drawn out of the way of the type, after which the ribbon from the reel will have its end passed through the guides I and fastened to the spool at the opposite side, when, by operating the machine in the usual way, the temporary ribbon will be drawn by the spool directly from the ribbon-holder, instead of from the other spool, and in this way the reel is made to serve as a spool, thus enabling the color to be changed whenever desired, still leaving the ribbon previously used wound on one of the spools, ready for use again whenever needed.

As the machines are constructed so as to cause the ribbon to move in either direction at will, it is obvious that the reel, when thus used, may be located either on the right or the left hand side of the machine, according as one or the other spool is nearest empty; and in like manner it may be located over one or the other of the spools with equal facility when used to replace the ribbon on the spools, as before described.

It is obvious that the jaws E F may be made of spring metal, with or without a clamping-screw; but as these parts are usually made of cast metal they will naturally be made rigid, as represented, and, besides, by using a clamping-screw or equivalent device the ribbon-holder can be more securely held.

A pair of tweezers or similar implement should be used for fastening and unfastening the ends of the ribbon to and from the ribbon-holder and the spools; and as the ribbon-holders are so made as to enable them, with the ribbon on, to be handled without touching the ribbon with the hand at all, it will readily be seen that by my improvement a great annoyance is obviated, besides the great advantage of temporarily using the reel as a spool when it is desired to temporarily change the color of the ink while writing on the same sheet.

The freshly-inked ribbons, instead of being furnished, as at present, in a loose roll, will be furnished ready wound on the ribbon-holder D, so they can be at once secured to the reel without touching the ribbon.

Having thus described my invention, what I claim is—

1. A reel for use in connection with type-writers, consisting of a standard, A, having

mounted thereon a crank-shaft, L, provided with the clamping-jaws E F, by which the ribbon-holder D is rigidly held at one end, and provided at its base with the shoulders *a* and clamping-screw *b*, for securing it to the bed-plate, substantially as described.

2. A ribbon-reel for type-writers provided with a crank-shaft carrying a pair of clamping-jaws, E F, constructed and adapted to hold the ribbon-holder D rigidly by grasping it at one end only, substantially as and for the purposes set forth.

3. In combination with one of the spools of a type-writer, the ribbon-reel arranged to operate as described, whereby it is made to serve as a spool, and thus enable a different ink-ribbon to be used without removing the previously used or main ribbon from the remaining spool, substantially as set forth.

WILLIAM K. JENNE.

Witnesses:
S. ZIMMERMAN,
H. H. BENEDICT.