V. I. PEAKS.

INKING DEVICE.

APPLICATION FILED MAY 6, 1916.

1,211,341. Patented Jan. 2, 1917.

Fig. 1.

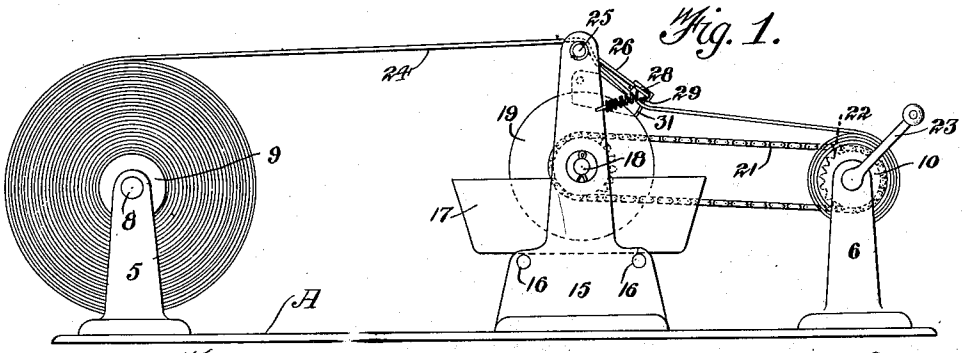


Fig. 2.

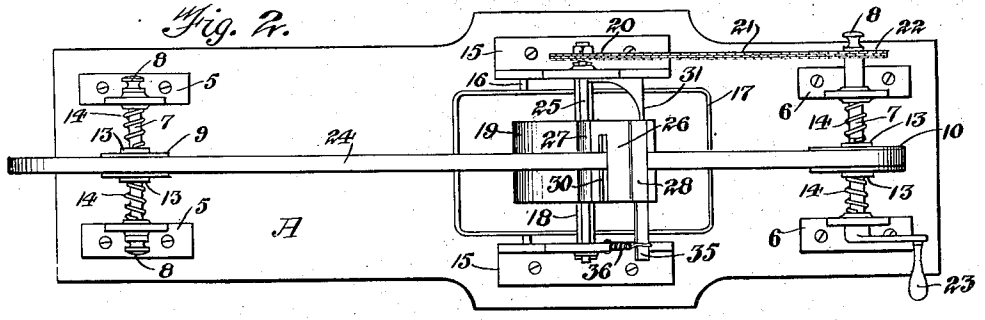


Fig. 3.

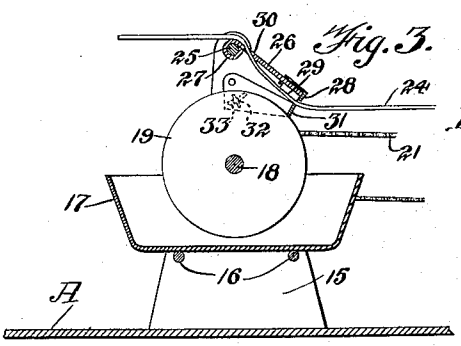


Fig. 6.

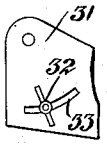


Fig. 4.

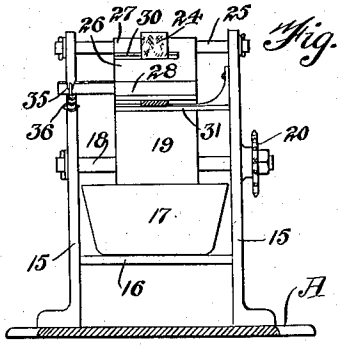


Fig. 5.

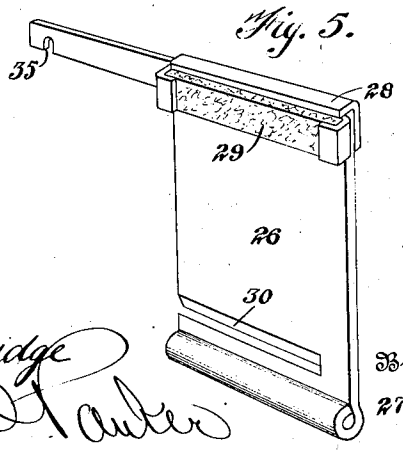
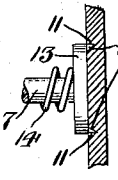


Fig. 7.



Witnesses

F. Windridge

H. C. Parker

Inventor

Vernon J. Peaks.

By Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

VERNON J. PEAKS, OF AURORA, ILLINOIS.

INKING DEVICE.

1,211,341. Specification of Letters Patent. Patented Jan. 2, 1917.

Application filed May 6, 1916. Serial No. 95,834.

To all whom it may concern:

Be it known that I, VERNON J. PEAKS, a citizen of the United States, residing at Aurora, in the county of Kane and State of Illinois, have invented new and useful Improvements in Inking Devices, of which the following is a specification.

The invention relates to an inking device, and more particularly to the class of typewriter ribbon inking devices.

The primary object of the invention is the provision of a device of this character wherein a strip of cloth in the form of a ribbon can be thoroughly inked so that the same can be used upon a typewriter or a typewriter ribbon which has been used can be inked a number of times so that the same ribbon may be used until it becomes worn to an extent that will render it unfit for use.

Another object of the invention is the provision of a device of this character wherein the construction thereof is novel in form so that a ribbon strip will be automatically fed therein for the absorption of ink which is applied thereto by the inking carriage which forms a part of the device, the device being adaptable either for the initial inking of the ribbon or the reinking thereof.

A further object of the invention is the provision of a device of this character which is extremely simple in construction, thoroughly reliable and efficient in its operation, durable so that it is handy for use in an office, and inexpensive in manufacture.

Other objects will be in part obvious and in part hereinafter set forth.

The invention accordingly consists in the features of construction, combination of elements and arrangement of parts which will be exemplified in the construction hereinafter described, and the scope of the application of which will be indicated in the appended claims.

In the accompanying drawings: Figure 1 is a side elevation of the device constructed in accordance with the invention; Fig. 2 is a top plan view thereof; Fig. 3 is a vertical longitudinal sectional view through the device; Fig. 4 is a vertical transverse sectional view taken slightly forwardly of the stand. Fig. 5 is a perspective view of the inking carriage. Fig. 6 is a fragmentary side elevation of the scraper; Fig. 7 is a fragmentary vertical transverse sectional view through the clutch.

Similar reference characters indicate corresponding parts throughout the several views of the drawings.

Referring to the drawings in detail, the device comprises a base A preferably in the form of a plate having mounted thereon and securely fixed thereto near opposite ends upstanding or vertical pairs of spaced bearings 5 and 6 respectively, in which are journaled spindles 7 which are detachably held therein through the medium of removable terminal caps 8, and upon these spindles are mounted unwinding and winding ribbon spools 9 and 10 respectively, each being formed in opposite hub cheeks with diametrically opposed notches 11 for receiving the locking teeth 12 of clutch disks 13 slidably mounted upon the spindles 7, and against these disks work coiled expansion springs 14 which also work against the bearings 5 and 6 so as to center the spools 9 and 10 upon the spindle and sustain the same in alinement with each other.

Mounted upon the base A intermediate the pairs of bearings 5 and 6 is a stand including the side uprights 15 and cross rods 16, upon which latter is removably fitted an ink containing pan or reservoir 17, while above the latter and journaled in the side uprights 15 is a driven shaft 18 on which is fixed an inking roll 19 to rotate therewith, while at one end of the shaft 18 without the stand is carried a sprocket wheel 20 over which is trained an endless sprocket chain 21, the same being also trained over a sprocket wheel 22 mounted upon the spindle 7 journaled in the bearings 6, which spindle has also fixed thereto a hand crank 23 so that it can be manually rotated for the winding of a ribbon strip 24 upon the spool 10, which is normally wound upon the spool 9 and is automatically unwound therefrom during the winding action of the spool 10 when the crank 23 is manually operated, as will be obvious.

Swingingly supported upon a spindle 25 mounted in the stand, that is to say, in the uprights 15 thereof above the inking roll 19 is a guide which is in the form of a plate 26 formed at one end with a pintle sleeve 27 receiving the spindle 25, while at the opposite end is formed an inking pad clamp 28 in which is supported an inking pad 29, the plate 26 being formed with a slot 30 opening through one edge thereof into which is introduced the stretch of the ribbon 24 which is

trained over the pintle sleeve 27 of said plate and beneath the pad 29 when it is to be unwound from the spool 9 and wound upon the spool 10 for the inking of said ribbon. The pad 29 contacts with the upper face of the ribbon while the lower face thereof contacts with a scraper 31 which rides upon the inking roll 19 and is swingingly mounted upon one of the uprights 15 of the stand, the scraper being set through the medium of a set screw 32 working in an arcuate slot 33 in the side limb of the scraper and engaged in one upright 15 of the stand. The ink from the reservoir 17 is taken up by the roller 19 and is fed to the ribbon 24 by the action of the scraper 31 upon the roller 19, as will be clearly obvious. The plate 26 is formed with a lateral extension 34 having a hook end 35 with which is engaged one end of a coiled retractile spring 36, the same being fastened to one of the uprights 15 of the stand, and this spring serves to hold the plate 26 in proper working position relative to the roll 19 and under tension.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the herein described inking device will be readily apparent and, therefore, a more extended explanation has been omitted.

Having thus described my invention, I claim:

1. An inking device comprising a base, winding and unwinding spools detachably journaled above the base near opposite ends thereof, a stand intermediate the spools, an ink reservoir held within the stand, an inking roll journaled in the stand and working within the reservoir for the distribution of ink therefrom, a guide swingingly supported in the stand for the ribbon, and a scraper mounted to engage both the roll and the ribbon for the feeding of ink thereonto from said roll.

2. An inking device comprising a base, winding and unwinding spools detachably journaled above the base near opposite ends thereof, a stand intermediate the spools, an ink reservoir held within the stand, an inking roll journaled in the stand and working within the reservoir for the distribution of ink therefrom, a guide swingingly supported in the stand for the ribbon, a scraper mounted to engage both the roll and the ribbon for the feeding of ink thereonto from said roll, and means for adjusting the scraper.

3. An inking device comprising a base, winding and unwinding spools detachably journaled above the base near opposite ends thereof, a stand intermediate the spools, an ink reservoir held within the stand, an inking roll journaled in the stand and working within the reservoir for the distribution of ink therefrom, a guide swingingly supported in the stand for the ribbon, a scraper mounted to engage both the roll and the ribbon for the feeding of ink thereonto from said roll, means for adjusting the scraper, and means for centering the spools and sustaining the same in alinement with each other.

4. An inking device comprising a base, winding and unwinding spools detachably journaled above the base near opposite ends thereof, a stand intermediate the spools, an ink reservoir held within the stand, an inking roll journaled in the stand and working within the reservoir for the distribution of ink therefrom, a guide swingingly supported in the stand for the ribbon, a scraper mounted to engage both the roll and the ribbon for the feeding of ink thereonto from said roll, means for adjusting the scraper, means for centering the spools and sustaining the same in alinement with each other, and means for driving the winding spool and the ink roll simultaneously with each other.

In testimony whereof I affix my signature.

VERNON J. PEAKS.

Witnesses:

Mrs. Vernon Peaks,

Catherin Coster.