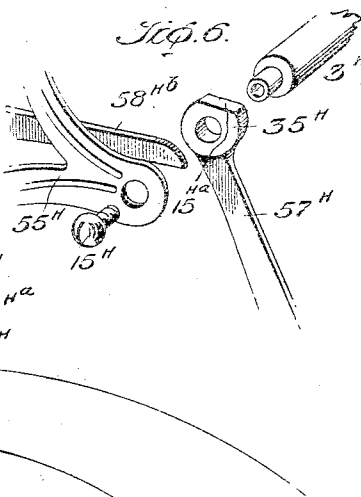
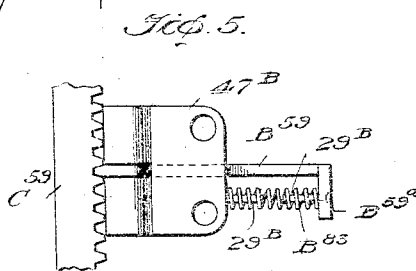
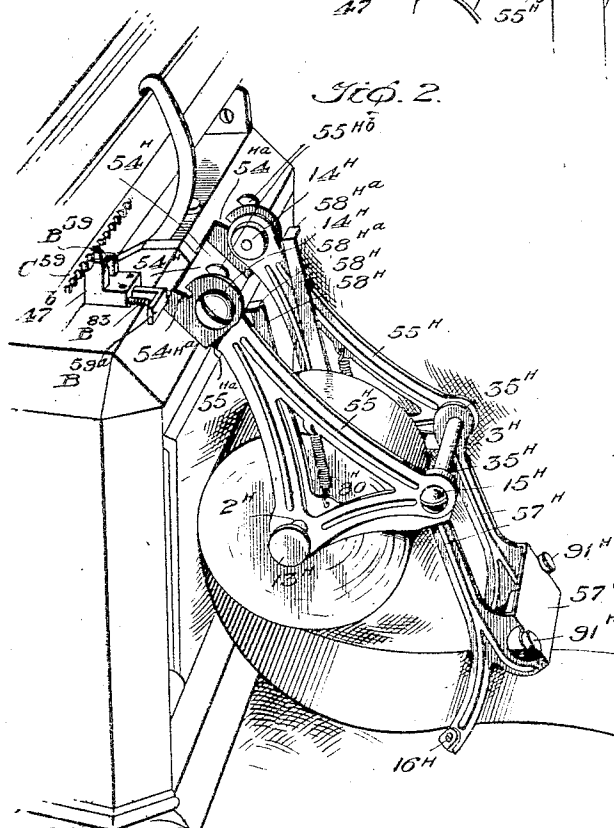


1,059,389.

Fig. 1.



Witnesses

Witnesses
~~Wm. L. Newcomb~~
 M. L. Newcomb.

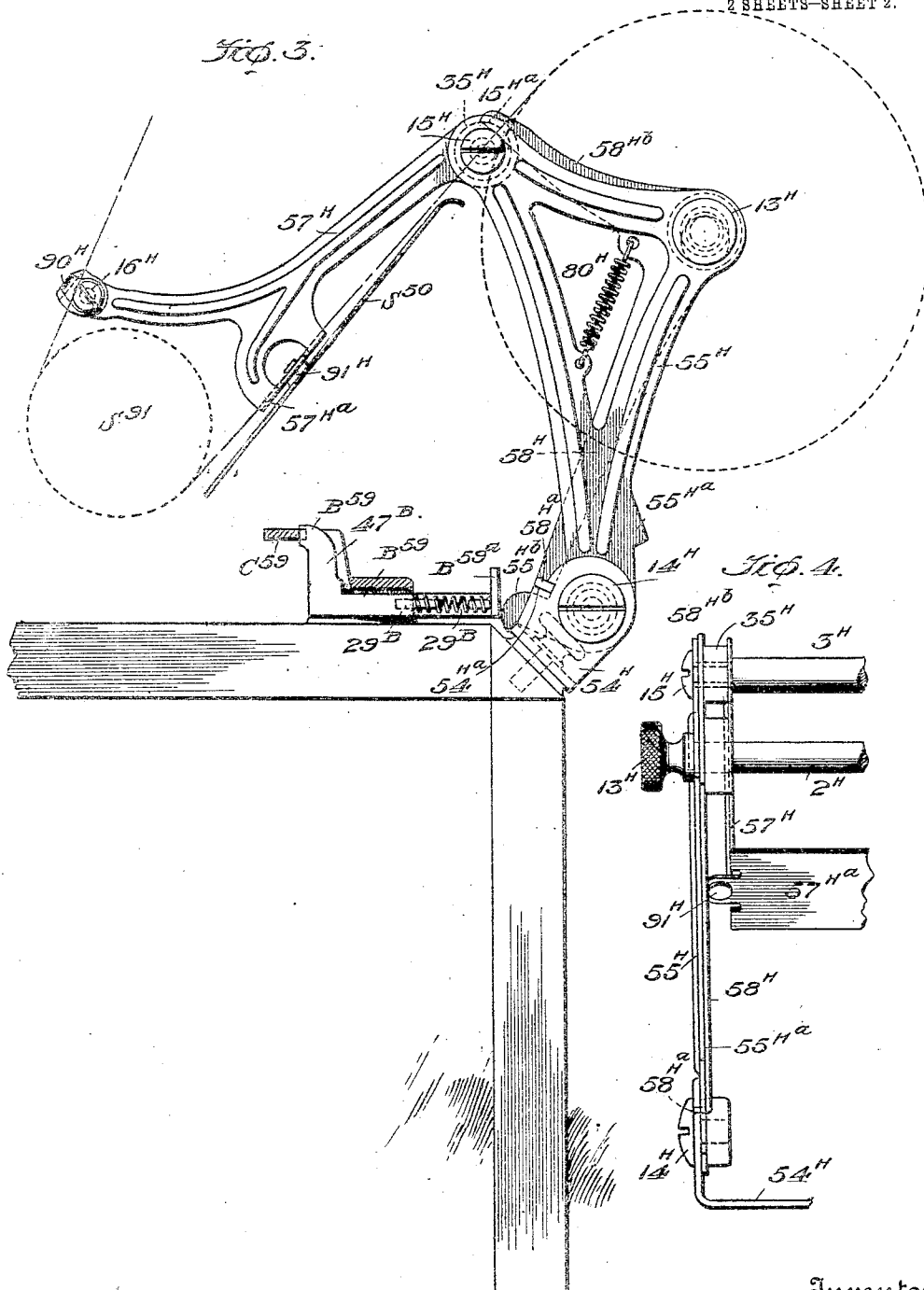
Nathan W. Perkins Jr. Inventor
by G. S. Hamlin Attorney

N. W. PERKINS, JR.
 PAPER ROLL HOLDER.
 APPLICATION FILED MAY 20, 1911.

1,059,389.

Patented Apr. 22, 1913.

2 SHEETS—SHEET 2.



Witnesses
[Signature]
 W. L. Newcomb

Inventor
 Nathan W. Perkins, Jr.
 by *[Signature]*
 Attorney

UNITED STATES PATENT OFFICE.

NATHAN W. PERKINS, JR., OF EAST ORANGE, NEW JERSEY.

PAPER-ROLL HOLDER.

1,059,389.

Specification of Letters Patent.

Patented Apr. 22, 1913.

Application filed May 20, 1911. Serial No. 628,450.

To all whom it may concern:

Be it known that I, NATHAN W. PERKINS, JR., a citizen of the United States, residing at East Orange, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in Paper-Roll Holders, of which the following is a specification.

This invention relates to paper roll holders.

The present invention has for its object the provision of a paper roll holder for adding and listing machines and, more particularly, for combined adding and typewriting machines having novel means whereby it may be shifted into position for the use of the paper on the platen of the machine when it is desired to list or add separately from the usual operations on the paper carried by the platen and which may be readily and quickly swung out of position when it is not desired to use the paper from the roll.

A further object is the provision of a paper roll holder which may be readily attached to any combined adding and typewriting machine, or the like, having novel means whereby it is locked when in operative position so that a proper degree of rigidity to secure a suitable positioning and guiding of the paper is maintained when the paper from the roll is being used and which may be swung aside and automatically unlocked by simple manipulation when the paper from the roll is not desired.

A still further object of the invention is the provision, in a device of the character set forth, of novel means for locking the carriage of the machine so that it cannot shift while the paper from the roll holder is being used on the platen in an adding operation, or the like, such locking of the carriage being automatically effected on positioning the paper roll holder for use of the paper from the roll thereof.

In the present invention there is provided a self-contained roll holder and movable parts, all adapted for attachment to an adding and typewriting machine wherein the positioning of the device for use of the paper from the roll thereof causes locking so that it will be maintained in position, and raising the paper holding part of the attachment will cause automatic unlocking or release of the roll holder, thus requiring no attention on the part of the operator

other than positioning the device when the paper of the roll thereof is to be used and swinging it aside when its use is not further required.

Having the foregoing objects, and others not specifically mentioned, in view, the invention embodies certain features of construction set forth more fully hereinafter and recited in the appended claims.

In the accompanying drawings:—Figure 1 is a perspective of a part of a combined adding and typewriting machine with the invention applied thereto in position for use; Fig. 2, a similar view with the roll holder dropped downwardly; Fig. 3, a detail side elevation, partly in section, showing the roll holder in position for use; Fig. 4, a detail rear elevation of a portion of the roll holder when in the position shown in Fig. 3; Fig. 5, a detail plan of the carriage-locking device, a portion of the rack being shown; and Fig. 6, a detail perspective of the joint between the main frame and the paper-holding frame, the parts being detached and showing the position one of the latching arms assumes when the device is in the position shown in Fig. 3.

In the drawings so much of a combined typewriter and adding machine or typewriter with adding attachment is shown as will give a clear understanding of the co-operation of the invention therewith, it being understood that the present invention is attached to the rear part of the frame of the machine.

The rotary platen is shown at S⁵¹, being mounted in a suitable carriage to travel transversely of the machine and having a rack C⁵². The usual paper-table appears at S⁵⁰.

Mounted on the frame of the machine is a guide 47^B in which slides a latch B⁵³ having a suitable heel B⁵⁴. A spring B⁵⁵ interposed between the heel and the guide 47^B and suitably sustained against buckling by pins 29^B affords means for normally retracting the tooth of the latch B⁵³ out of engagement with the rack C⁵².

54^H designates a bracket which is suitably secured to the frame of the machine by screws or other fastenings and is provided with up-turned ears having notches 54^H. The roll carrier has two arms 55^H which are pivoted to the ears by screw pivots 14^H and are provided with shoulders 55^H adapted to strike the base of the bracket when the roll

holder is in its dropped or lowered position, as shown in Fig. 2, and thus prevent the device from being violently thrown against the back of the machine when it is swung out of position. The arms 55^H are of substantially triangular construction and are connected substantially at one angle thereof by a spindle 2^H having a head 13^H at one end and a screw tip at the other end, the spindle passing loosely through the hub of one of the arms 55^H and the tip screwing into the hub of the other arm 55^H. The paper roll is loosely mounted on the spindle 2^H and the latter is removable from the arms 55^H to permit the paper roll to be put on or taken off.

Pivoted on the hubs of the arms 55^H through which passes spindle 2^H are the latches 58^H which are of bell-crank construction, the lower legs being provided with lugs 58^{Ha} adapted to engage the notches 54^{Ha} when the device is in its raised position and therefore lock the entire device in that position, the latches being given a tendency to engage the notches 54^{Ha} by the springs 80^H which are connected to said latches and to the arms 55^H. The other angles of the arms 55^H are connected and braced by a rod 3^H, screws 15^H entering the ends thereof.

Swingly mounted on the rod 3^H are the arms of the paper guide 57^H, these arms being provided with hubs 35^H, each having a flat 15^{Ha}. The paper guide has a cross-piece 57^{Hc} over which the paper from the roll passes prior to being passed around the platen S⁰¹, and said cross-piece is provided with cushions 91^H adapted to support it on the paper table S⁰⁰ when it is down, and thus prevent scratching of the paper table. The paper guide also has a paper knife 90^H extending thereacross at its end and connected thereto by screws 16^H. The end of the paper strip, after passing around the platen S⁰¹, passes up between the arms 57^H so that upon being grasped and drawn toward the operator, it will be brought against the knife and readily severed.

The lower end of each of the arms 55^H has a cam 55^{Hb} one of which is positioned to engage the heel B⁰⁰ and press the latch B⁰⁰ into engagement with the rack C⁰⁰ of the carriage of the machine when the device is in its raised or operative position, and to swing out of the way and release said latch to permit the spring 29^H to throw the latch out of engagement with the rack C⁰⁰ when the paper roll holder is thrown down, as shown in Fig. 2. The members 55^{Hb} strike 54^H when the roll holder is in raised position, as shown in Fig. 1.

The arms 58^{Hb} of the latches 58^H are adapted to rest upon the hubs 35^H at all times, being drawn against said hubs by the springs 80^H. When the paper guide is thrown down to operative position, as shown

in Figs. 1 and 3, the flats 15^{Ha} are then under the tips of the arms 58^{Hb} so that the lugs 58^{Ha} are then thrown into the notches 54^{Ha} by the springs 80^H and, consequently, the entire paper roll holder is locked in operative position. As soon, however, as the paper guide 57^H is raised, the rounded or cylindrical parts of the hubs 35^H comes underneath the arms 58^{Hb} and raise them, thus releasing the lugs 58^{Ha} from the notches 54^{Ha} and enabling the entire device to be thrown backwardly to lowered position, in doing which the cam 55^{Hb} releases the latch B⁰⁰ from the rack C⁰⁰.

When not desired for use, the attachment lies in the position shown in Fig. 2. When it is desired to lock the carriage and to add or list numbers on the strip from the paper roll, the entire attachment is drawn upwardly and the paper guide brought down upon the paper table S⁰⁰, whereupon the paper knife 90^H lies immediately over the platen S⁰¹, and the paper is then threaded across the support 57^{Hc} and around the platen S⁰¹ and upwardly under the knife 90^H. When the items have been printed on the strip, the strip is detached by drawing it against the knife, and on lifting the arms 57^H, the latches 58^H are released from the notches 54^{Ha}, whereupon the entire device may be dropped to the rear of the machine. When the attachment is raised to bring it to the position shown in Figs. 1 and 3, the cam 55^{Hb}, by pressing against the heel B⁰⁰, causes the latch B⁰⁰ to engage the rack C⁰⁰ of the carriage of the machine and lock the carriage and platen against movement.

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

1. A paper holder mounted for shifting, in combination with a movable paper guide carried thereby, and means for locking the paper holder, said locking means being controlled by the movement of the paper guide.

2. A swingingly mounted paper holder, in combination with a swinging paper guide connected thereto, and means controlled by the swinging of said paper guide adapted for locking the paper holder when the paper guide assumes a given position and for unlocking said paper holder when said paper guide is swung in another direction.

3. A paper holder mounted to swing up and down, a paper guide swingingly mounted thereon, and automatically locking means brought into operation to lock the paper holder in raised position when the swinging paper guide is in one position in relation thereto and for automatically releasing said locking means when said paper guide is swung to another position, thereby permitting the entire paper holder to be brought to lowered position.

4. The combination with a printing machine, of a paper holder movably associated therewith and adapted for movement toward and away from the printing line of said machine, means for locking the paper holder when shifted toward the printing line of said machine, and a paper guide movably associated with said paper holder controlling said locking means, whereby the paper holder is automatically locked when the paper guide is moved to feeding position and automatically released when the paper guide is oppositely shifted.

5. The combination with a printing machine, of a paper holder movably associated therewith, a paper guide movably associated with the paper holder and adapted to be shifted toward and away from the printing line of the machine, and a locking device for securing the paper holder in operative position in relation to the machine, said locking device being coöperatively related to the paper guide so as to be automatically thrown into locking position when the paper guide is moved toward the printing line of the machine and is automatically released when the paper guide is moved away from the printing line of said machine.

6. The combination with a printing machine having a traveling platen carriage and platen, of a movable paper holder associated with said machine and adapted to assume an operative position for the feeding of the paper strip or sheet to the platen and also to be shifted away from the platen when not required, and means for automatically locking the platen carriage and platen against traveling when the paper holder is moved to operative relation thereto.

7. The combination with a printing machine having a traveling platen carriage and platen, of a paper holder adapted to be raised or lowered in relation to said platen for positioning it for the use of the paper strip or sheet into or out of operative position, and locking means thrown into operation on the raising of the paper holder to prevent travel of the platen carriage.

8. The combination with a printing machine having a platen, of a swinging paper holder adapted to be raised for the use of the paper strip or sheet or to be lowered out of operative position, a movably mounted paper guide carried by the paper holder adapted for holding the paper strip or sheet for use on the platen, means for automati-

cally locking the paper holder in raised position, said means being automatically controlled by the shifting of the paper guide so that when said guide is moved out of operative position the locking means is released to allow the paper holder and paper guide to be lowered.

9. The combination with a printing machine having a traveling platen carriage and platen, of a swinging paper holder adapted to be raised for the use of the paper strip or sheet or to be lowered out of operative position, a movably mounted paper guide carried by the paper holder adapted for holding the paper strip or sheet for use on the platen, means for automatically locking the paper holder in raised position, said means being controlled by the shifting of the paper guide so that when said guide is moved out of operative position the locking means is automatically released to allow the paper holder and paper guide to be lowered, and means for automatically locking the platen carriage against travel when the paper holder is brought into raised position and for unlocking the platen carriage when the paper holder is lowered.

10. A paper holder having, in combination, a swinging frame, paper holder carried by said frame, a spring-actuated latch carried by the frame, means for engagement with the latch to lock the frame, and a paper guide swingingly connected to the aforesaid frame and coöperatively related to the said latch, whereby when the paper guide is moved to a feeding position the latch is operated thereby to lock the paper holder frame and when the paper guide is moved out of feeding position the said latch is released thereby.

11. The combination with a printing machine having a traveling carriage, and a platen carried thereby, of a movable paper holder, a paper guide thereon adapted to be positioned for the feeding of the paper to the platen, locking means arranged and adapted to secure the carriage against travel, and means on the paper holder co-operating with the locking means for locking the carriage.

In testimony whereof, I hereunto affix my signature in presence of two witnesses.

NATHAN W. PERKINS, Jr.

Witnesses:

CHAS. N. McFARLAND,
WALTER J. BURCHETT.