A. L. HART.

COPYHOLDER FOR TYPEWRITERS.

APPLICATION FILED DEC. 5, 1919.

1,437,841. Patented Dec. 5, 1922.

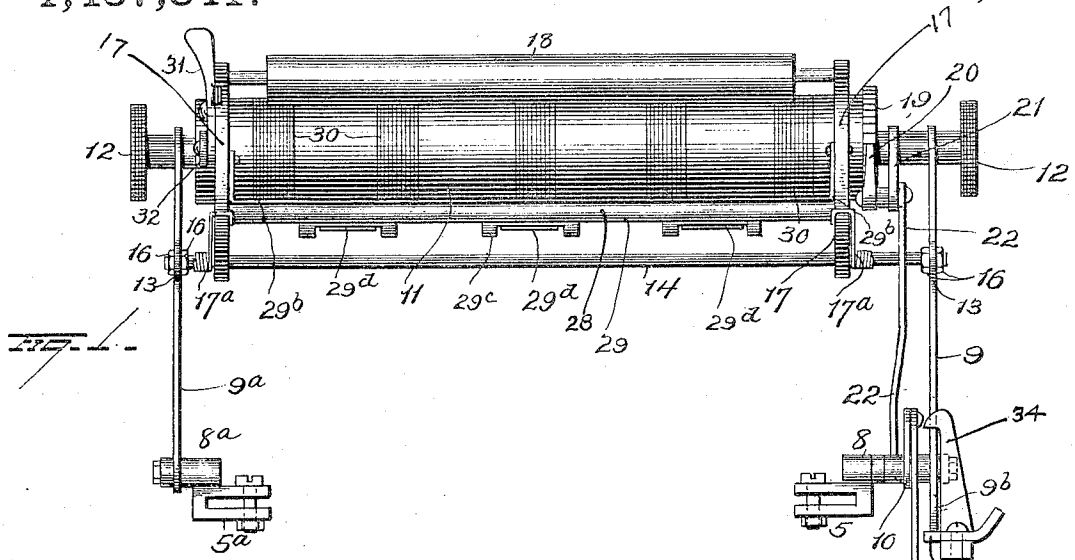


FIG. 1.

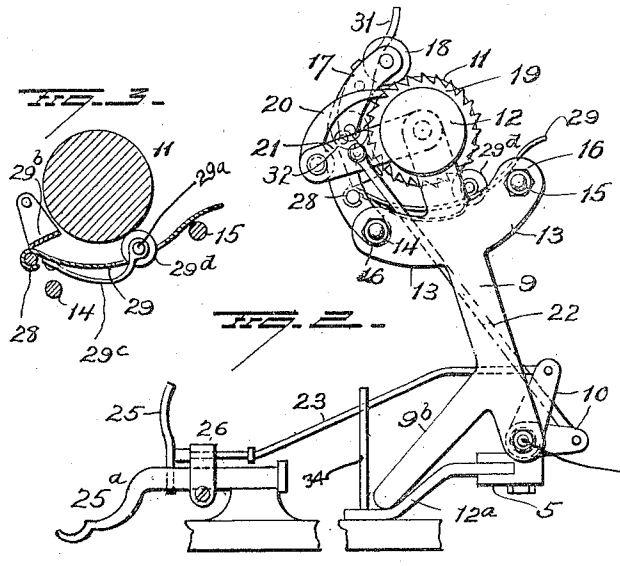


FIG. 2.

FIG. 3.

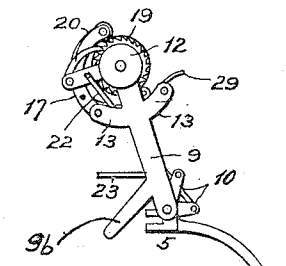


FIG. 5.

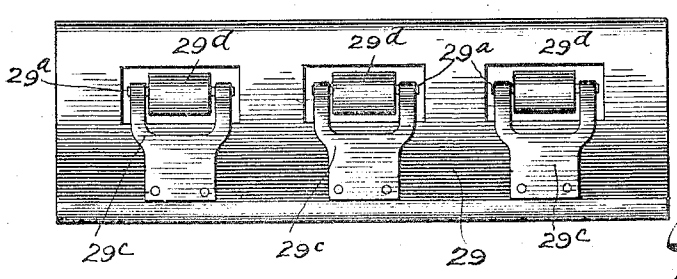
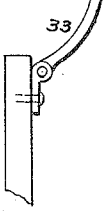


FIG. 4.



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UNITED STATES PATENT OFFICE.

ALVIN L. HART, OF SAN DIEGO, CALIFORNIA, ASSIGNOR OF ONE-HALF TO CECIL LEWINSON.

COPYHOLDER FOR TYPEWRITERS.

Application filed December 5, 1919. Serial No. 342,687.

To all whom it may concern:

Be it known that I, ALVIN L. HART, a citizen of the United States, and a resident of San Diego, in the county of San Diego and State of California, have invented certain new and useful Improvements in Copyholders for Typewriters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in copy holders for typewriters, the object being to provide a device adapted to be attached to the carriage of a typewriter and having a copy carrying roll adapted to be turned by the operator to expose the writing as fast as may be necessary, and it consists in the parts and combination of parts as will be more fully explained and pointed out in the claims.

In the accompanying drawings, Figure 1 is a diagrammatic representation, in front elevation of my improvements; Figure 2 is a view in end elevation, and Figure 3 is a view in section through the copy carrying roll and its supporting frame. Figure 4 is a bottom plan view of the copy guide and Figure 5 is a view showing the apparatus attached to the typewriter frame instead of the carriage.

5 and 5^a are brackets slotted to engage parts of typewriter carriage and provided with set screws for locking them to such parts, so that the brackets and the parts carried by the same will move with the carriage. Bracket 5^a is provided with a trunnion 8^a on which the side member 9^a is mounted at its lower end, and bracket 5 is provided with a longer trunnion 8 to support the side member 9 and bell-crank lever 10, the said side member and bell-crank lever being journalled on said trunnion.

Journalled in the upper ends of the side members 9 and 9^a is the copy carrying cylinder 11 having end knobs 12 by which it may be turned independently of the step-by-step feed which will be referred to later on.

Side member 9 is provided adjacent its lower end with the prop 9^b which normally rests on the plate 12^a secured at one end to the bracket 5 and resting at its front free end on the carriage, the construction being such that when the prop 9^b is in its normal position, as shown in Figure 2, the side members 9 and 9^a will be inclined forwardly so that the cylinder 11 will rest in a vertical plane in front of the trunnions 8 and 8^a, and be held in such position by the weight of the overhanging parts, but free to be turned backwardly behind the frame of the typewriter so as to be out of the way of the cover.

Formed integral with the side members 9 and 9^a are the front and rear extensions 13, the extensions on the two side members being connected by the rods 14—15 which are secured by the clamping nuts 16, thus rigidly uniting the two side members 9 and 9^a to form a stiff and rigid frame in which the cylinder 11 is mounted to rotate.

Pivotally mounted on the front rod 14, adjacent the members 9 and 9^a are the fingers 17 carrying at their upper ends the guiding roller 18 located near the top of cylinder 11 so as to afford a clear view of the copy on the cylinder 11. These fingers 17 are yieldingly forced toward the cylinder 11 by the springs 17^a and hold the roller 18, which is preferably rubber covered in yielding contact with the copy.

Secured to the end of the cylinder 11 adjacent the member 9 is the ratchet wheel 19, the teeth of which are engaged by the pawl 20 mounted on the front end of the link 21, which is pivotally mounted at its rear end on the shaft of roller 11.

Link 21 is connected intermediate its ends to the pitman 22 and the latter is connected at its lower end to one end of the bell-crank lever 10. This lever 10 is journalled at its elbow on the trunnion 8 of bracket 5, and is connected at its other end to the bent rod 23 which is supported in a bearing 26 and extends forwardly in advance of the typewriter cylinder 24 and terminates in a finger piece 25 which is located with relation to the spacing lever 25^a that it may be actuated by one finger at the same time the lever 25^a is actuated to move the typewriter roller 24.

The fingers 17, which as before explained carry the guide roller 18, are connected by a rod 28 on which is mounted the paper guide 29, and the straight edge or copy guide 29^b. This straight edge extends from finger 17 to the other and is provided with upwardly bent ends by which it is pivoted to said fingers so that it will be suspended in a position close to the copy and form a line guide, but free so as not to interfere with

the feed of the copy. The guide 29 is curved as shown and rests under the cylinder 11 and forms a support for the note book or other paper containing the matter being typewritten, and preferably carries shafts 29^a each having a rubber roller 29^d thereon which projects through openings in the guide 29 so as to grip and hold the copy against cylinder 11. The shafts 29^a are journalled at their ends in the spring arms 29^c secured to the underside of the guide 29 which give or yield to accommodate themselves to the thickness of the note book or other copy carried by the cylinder 11. The copy is introduced from the rear between the cylinder 11 and guide 29, and passes up at the front of the cylinder 11 above the straight edge or lining strip 29^b and under the guide roller 18, and exposes to view a number of lines from the notes being copied. After the copy has been thus placed, by pulling outwardly on finger piece 25 the bell-crank 10 will be rocked and acting through the pitman 22, link 21 and pawl 20 rotates the cylinder 11 in a direction to lift the copy and expose the lines below to the operator. With this arrangement the copy can be rolled upwardly and rearwardly as fast as may be necessary and with but little effort on the part of the operator.

One finger 17 of the frame carrying the guide roller and line marker, carries the lever 31, which is pivoted intermediate its ends to said finger and is provided at its inner end with a roller 32 adapted to be moved into contact with the copy carrying cylinder 11, the other end of said lever being flattened to form a finger piece. Normally the roller 32 is out of contact with the cylinder 11, but by pressing down on the finger piece the roller is moved into contact with the cylinder and operates to force the frame composed of the two fingers 17 and all the parts carried thereby forwardly and hold them so removed as to leave the cylinder free for the introduction of the copy.

In order to prevent any slipping of the copy on the cylinder 11 I roughen the surface of the latter at intervals, as at 30, so that the frictional contact caused by the guide and pressure roller 18 will be sufficient to cause a positive feed of the copy or notes with each pull on the finger piece.

When the attachment is not in use, the frame carrying the cylinder can be turned rearwardly and so held by the engagement of the prop 9^b with the spring hook 34 and be out of the way and not interfere with the placing of the cover in position.

It will be evident that instead of attaching the copy holder to the carriage of a type writer, it may be hinged to arms 33 secured to the stationary part of the frame at the rear thereof, the said arms extending up sufficiently high to support the holder in a position above the carriage, and it is also clearly evident that the parts for actuating the copy carrying rollers 11 may be at the left side of the machine in a position to be actuated by a finger of the left hand, hence I would have it understood that I do not confine myself to the details shown, but consider myself at liberty to make such changes as may fall within the spirit of my invention.

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

1. In a copy holder for typewriters, the combination of a frame having means for attaching it to a typewriter, the frame being pivoted to said attaching means and having a fixed prop for supporting it in its operative position, a copy holding cylinder journalled to said frame, a finger piece located adjacent to the line spacing lever of the typewriter so that the said lever and finger piece may be simultaneously operated by one hand and means connecting the finger piece and cylinder for imparting a feed rotation to the latter.

2. In a copy holder for typewriters, the combination of a frame detachably connected to a typewriter, a copy holding cylinder carried by said frame, a guiding and presser roller yieldingly carried by said frame and adapted to hold the copy in contact with the cylinder, a curved guide located under the cylinder, a roller carried by said guide for engaging and supporting the copy, a finger piece located adjacent the line spacing lever of the typewriter and means actuated by the finger piece for imparting a feeding movement to the cylinder.

3. In a copy holder for typewriters, the combination of a frame having means for attaching it to a type writer, a copy holding cylinder carried by said frame, yielding means for guiding and holding the copy on the cylinder, a lever carried by said means and adapted to engage the cylinder for moving and holding said guiding and holding means separated from the latter and means for rotating the cylinder.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

ALVIN L. HART.

Witnesses:
HENRY S. GILL,
H. E. CRANE.