Feb. 2, 1926. 1,571,658

H. B. COLES

COPYHOLDER

Filed June 1, 1925 2 Sheets-Sheet 1

Fig. 1.

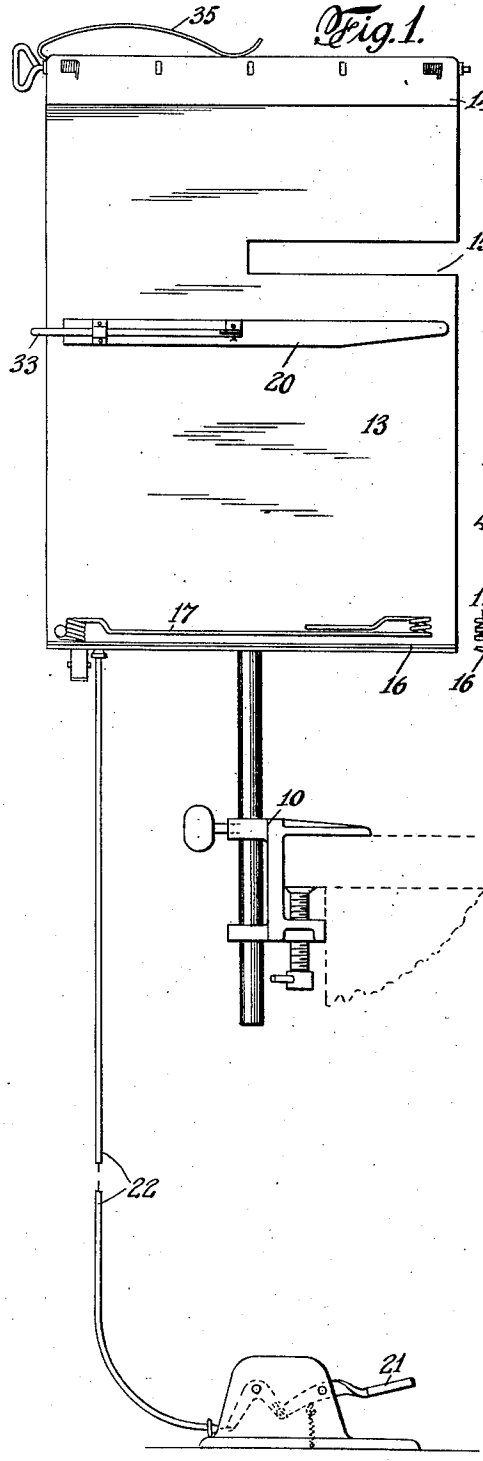
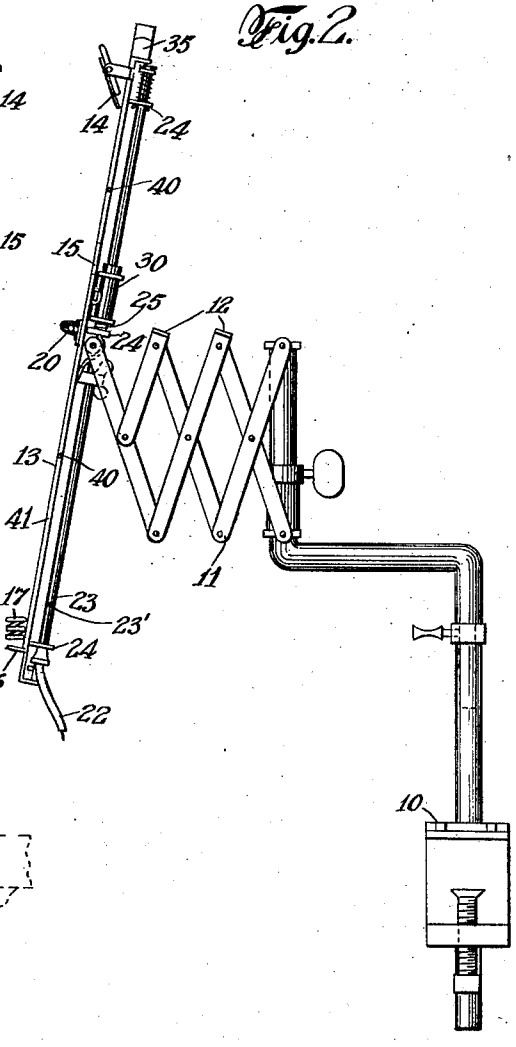


Fig. 2.



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Fig. 3.

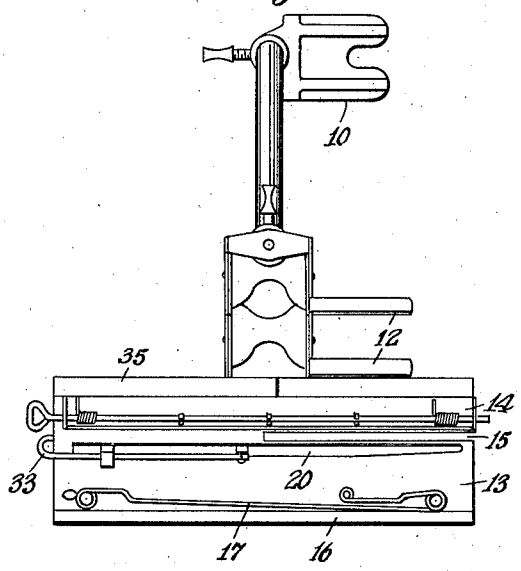


Fig. 4.

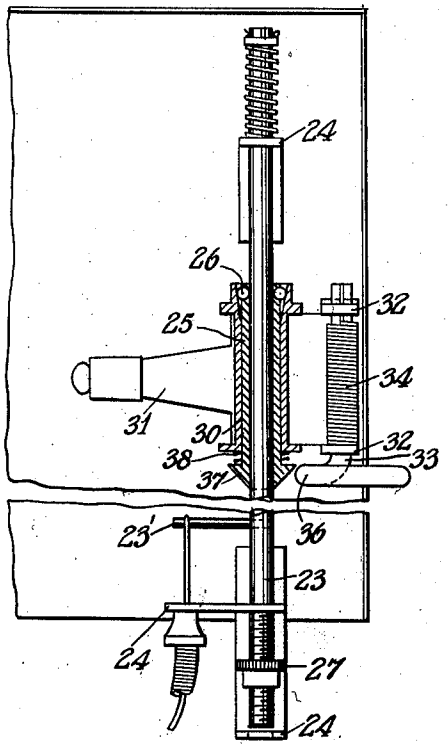
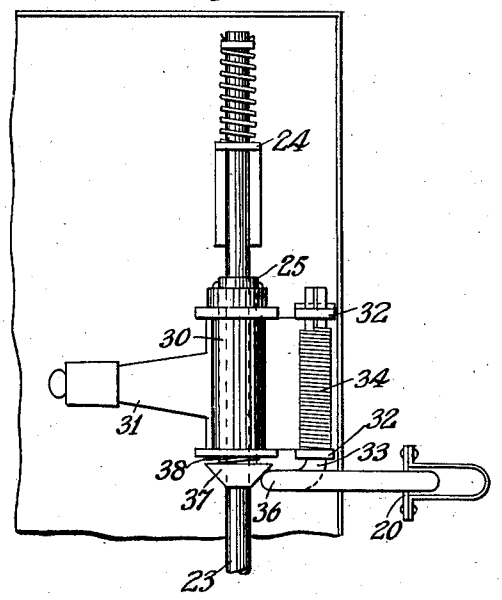


Fig. 5



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Patented Feb. 2, 1926. 1,571,658

UNITED STATES PATENT OFFICE.

HOWARD B. COLES, OF BROOKLYN, NEW YORK, ASSIGNOR TO COLES COPYHOLDER COMPANY, A PARTNERSHIP COMPOSED OF HOWARD B. COLES AND ERNEST H. STOLZ, BOTH OF NEW YORK, N. Y.

COPYHOLDER.

Application filed June 1, 1925. Serial No. 33,905.

To all whom it may concern:

Be it known that I, HOWARD B. COLES, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Copyholders, of which the following is a specification.

The invention relates to a copy holder device for attachment to a desk or like support and suitable for use with typewriting and other machines, and whereby the material to be copied or transcribed is brought into view line by line.

It has for its object to provide means embodying a single clutch mechanism and controlled either by the hand or foot of the operator for effecting a step by step movement of a transverse line indicating arm or rule over the copy to progressively disclose the same; also, to enable from the front of the copy holder said rule to be quickly and readily returned to its starting position thereon. A further object of the invention resides in a positive advancing means for said arm whereby the same is advanced a uniform distance at each step, said distance corresponding to the spacing of the copy and being adjustable thereto.

A still further object of the invention consists in an arrangement whereby, in addition to its use with sheets and the like, a note book may be readily held by the said device as when transcribing only is contemplated.

The nature of the invention, however, will best be understood when described in connection with the accompanying drawings, in which—

Fig. 1 is a front elevation of the novel copy holder.

Fig. 2 is a side view of said copy holder, and Fig. 3 is a plan view thereof.

Fig. 4 is a fragmentary detail sectional view of the advancing mechanism; and Fig. 5 is a similar view illustrating the clutch releasing arrangement.

Referring to the drawings, 10 designates a universal bracket whereby the novel copy holder may be clamped or otherwise secured to a desk or other article of furniture (indicated in phantom lines) in manner well understood, and positioned conveniently to the operator. This bracket is provided, also, with an adjustable extension arm 11 of the lazy-tong type for permitting the copy holder to be moved closer to or further away from the operator. At the top of this extension piece, several of the members composing same are bent laterally away to provide a support or table 12 for finished copy of a stenographer's note book or the like, as will hereinafter be more fully set forth.

To the outer end of the said extension is adjustably secured the back or copy plate or support member 13 for the copy; and the same is provided at its top with a spring-pressed clamping bar 14 under which may be held copy, such as one or more sheets, and other material from which it is desired to copy. For example, in addition to its use with typewriting machines, it may be utilized to hold copy for adding and calculating machine operators, printers and linotype operators, etc.

The said back plate is further provided with an inwardly directed horizontal slot 15 from one of its edges and corresponding to the table 12, preferably the right hand edge, the same being a distance from the bottom of the plate substantially equal to the length of an ordinary note book such as is utilized in taking stenographic notes; and the bottom of the plate is turned outwardly to provide a ledge or foot piece 16 which in some instances may be used as a support. A spring clip 17, moreover, is provided along the bottom of the plate for retaining copy as well as the note book; and when the latter is employed, the portions of the same as completed are to be brought thru the slot 15 in back of said plate and rest upon the support member 12 to avoid over-balancing the book.

When copying is done therefrom, as well as from ordinary sheets and the like held by the top clamping bar 14, there is arranged to move downwardly over same a line indicator as a swinging arm or rule member 20 which is preferably of semi-transparent material as colored celluloid, the movement imparted thereto being intermittent or step by step and gauged to uncover one line of the copy at a time. Movement to the said arm is communicated indirectly from a treadle member 21 which is placed on the

floor conveniently to the operator, although it is to be understood that, if desired, the same may also be arranged for manual control. The movement of the treadle member is communicated to a flexible shaft, as a Bowden cable 22, and thru same to a vertically reciprocable clutch rod or spindle 23 by means of an arm 23′ extending laterally therefrom. The rod 23 is mounted in brackets 24 attached to the back of the copy plate 13 and is spring-urged upwardly, whereby after the rod has been drawn downwardly thru the action of the treadle member in manner hereinafter set forth, it is returned immediately upon being released.

Surrounding this rod is a sleeve or slide 25 containing a suitable one-way clutching mechanism as a ball clutch 26, the clutching portion of which surrounds said rod 23 to grip the sleeve to the rod in its downward motion but permits the rod to return freely therethru in its upward movement when suitably released. Thus at every stroke of the treadle member, the sleeve is moved downwardly a predetermined distance, which distance corresponds to the required copy spacing, and which may be altered thru adjustment of a nut or stop 27 rotatably mounted on the lower threaded end of the rod and adapted to strike the lower of the brackets 24 in its downward movement.

The sleeve 25 is surrounded by a further sleeve 30 which carries a bracket 31 having an inwardly extending arm preferably covered with soft material such as rubber, the same bearing against the back of the back of the copy plate to introduce friction for holding the bracket and sliding member as a whole thereto, the pressure exerted upon said arm and rule 20 being in amount determined by the tension of a suitable spring, as hereinafter set forth. The outer edge of the bracket 31, furthermore, is provided with a pair of outwardly extending ears 32, perforated to receive and pivot a wire support member 33 for the said arm or rule member 20 and to hold therebetween a spring 34 coiled about said wire end. One end of the said spring is attached to the wire and the other to the bracket, thereby tensioning the wire and its attached rule the desired extent to maintain the latter in proper contact with any copy on the front of the plate. This construction provides for a resilient mounting which enables the rule to not only press down the copy but to be swung outwardly from the face of the copy plate about its spring end as an axis, as in placing on or removing copy from said plate, the wire 33 extending over about the corresponding edge of the plate. Copy which has been completed may be swung over the top of the copy plate and held under a clip member 35 at the top of the said plate.

Provision is made, also, for having said wire support 33 release the clutch sleeve or slide 25 in order to enable the same to be returned to its initial position at the top of the plate from any intermediate position. To this end, said wire is provided beneath the lower of the lugs 32 with an out-turned portion or projection 36 and the sleeve 25 is extended below the surrounding sleeve 30 and terminates in a conical end 37. Normally, the projection 36 is out of contact with said end 37; but, as the rule 20 is moved away from the front of the copy holder, it engages the conical terminal 37 and forces the sleeve 25 upwardly to thereby release the ball clutch from its grip on the rod 23 and to permit the rule as a whole to be moved upwardly the desired extent. It will be noted that this operation may conveniently be accomplished from the front of the copy holder in grasping the rule 20 or its supporting wire 33 and swinging it outwardly and then moving upwardly said rule. As soon as the rule is returned to its holding position on the plate, the projection 36 disengages from the conical terminal 37 and sleeve 25 is again locked to the rod 23 against upward movement thereon, said sleeve 25 being assisted to the locking position under the action of a spring 38 located between the head of the terminal 37 and the lower edge of the sleeve 30, being coiled about a portion of the sleeve 25.

In instances where it is desired to retain copy wider than that corresponding to the width of the plate 13, a wire support (not shown) may be snapped into perforations 40 of the side of flange 41 of the plate at the edge opposite that about which the wire 33 extends, the latter with its rule member 20 is to be furnished in various corresponding lengths.

I claim:

1. In a copy holder: a supporting plate or back for the copy, a clamping bar at the top for securing copy thereto, means movable over the back of said plate, a rule member carried thereby and operable downwardly over the front of the plate, and means controlled by said rule member to allow for returning said movable means to its uppermost position by correspondingly moving the rule member.

2. In a copy holder: a supporting plate or back for the copy, a clamping bar at the top for securing copy thereto, a rod mounted upon the back of said plate to reciprocate longitudinally thereof, said rod being spring urged upwardly, a slide member and clutch mounted about said rod, means to reciprocate the rod to draw the slide member downwardly, a rule member connected with said slide member and operable downwardly thereby over the front of the plate, and means controlled by said rule member to

allow for returning said slide to its uppermost position by correspondingly moving the rule member.

3. In a copy holder: a supporting plate or back for the copy, a clamping bar at the top for securing the copy thereto, a securing bracket and an extension member connecting the same with the plate, a rod mounted upon the back of said plate to reciprocate longitudinally thereof, said rod being spring-urged upwardly, an arm extending outwardly from said rod, a Bowden cable attached to said arm, a treadle member secured to the other end of said cable for pulling down said arm and its attached rod, a sliding sleeve with ball clutch surrounding said rod and having a conical portion at its lower end, a second sleeve surrounding said first-named sleeve, a bracket secured to the surrounding sleeve having an arm extending therefrom for engagement with the back of the plate and a further arm extending in the opposite direction and provided with a pair of ears directed outwardly therefrom, a wire mounted to oscillate in said ears extending over the edge of the plate to the front face thereof, a rule member carried by said wire, a spring about the inner end of the wire between said ears to normally hold the rule member under tension to the face of said plate, said wire having also a portion at the back of the plate for engagement with the conical lower end of the said inner sleeve when the rule member is moved away from the face of the plate, and a spring between said conical end of the inner sleeve and the lower edge of the surrounding sleeve to normally urge said inner sleeve downwardly for clutching the same to its rod.

4. In a copy holder: a supporting plate or back for the copy, a clamping bar at the top for securing the copy thereto, a securing bracket and an extension member connecting the same with the plate, a rod mounted upon the back of said plate to reciprocate longitudinally thereof, said rod being spring-urged upwardly, an arm extending outwardly from said rod, a Bowden cable attached to said arm, a treadle member secured to the other end of said cable for pulling down said arm and its attached rod, a bracket thru which the lower end of said rod is adapted to pass, said lower end being threaded and having a nut working thereon above said bracket whereby the amount said rod is drawn downwardly may be suitably adjusted, a sliding sleeve with ball clutch surrounding said rod and having a conical portion at its lower end, a second sleeve surrounding said first-named sleeve, a bracket secured to the surrounding sleeve having an arm extending therefrom for engagement with the back of the plate and a further arm extending in the opposite direction and provided with a pair of ears directed outwardly therefrom, a wire mounted to oscillate in said ears extending over the edge of the plate to the front face thereof, a rule member carried by said wire, a spring about the inner end of the wire between said ears to normally hold the rule member under tension to the face of said plate, said wire having also a portion at the back of the plate for engagement with the conical lower end of the said inner sleeve when the rule member is moved away from the face of the plate, and a spring between said conical end of the inner sleeve and the lower edge of the surrounding sleeve to normally urge said inner sleeve downwardly for clutching the same to its rod.

5. In a copy holder: a plate or back for the copy, a support therefor attached to the back of said plate and having a laterally directed substantially horizontal support, said plate having a transverse slot inwardly directed from the corresponding edge at a predetermined distance above the bottom and thru which completed portions of a note book may extend and rest upon said laterally directed support.

6. In a copy holder: a supporting plate or back for the copy, said plate having a transverse slot inwardly directed from one of its side edges at a predetermined distance above the bottom of the plate, a securing bracket, and an extension member connecting the same with the plate, said extension member having a laterally directed substantially horizontal support located in proximity to the said slot for supporting completed portions of a note book extending thru the latter.

7. In a copy holder: a supporting plate or back for the copy, said plate having a transverse slot inwardly directed from one of its side edges at a predetermined distance above the bottom of the plate, a clamping bar at the top for securing the copy thereto, a securing bracket, and an extension member connecting the same with the plate and having a laterally directed substantially horizontal support located in proximity to the said slot for supporting completed portions of a note book extending thru the latter, a rod mounted upon the back of said plate to reciprocate longitudinally thereof, said rod being spring-urged upwardly, an arm extending outwardly from said rod, a Bowden cable attached to said arm, a treadle member secured to the other end of said cable for pulling down said arm and its attached rod, a bracket thru which the lower end of said rod is adapted to pass, said lower end being threaded and having a nut working thereon above said bracket whereby the amount said rod is drawn downwardly may be suitably adjusted, a sliding sleeve with ball clutch sur-

rounding said rod and having a conical portion at its lower end, a second sleeve surrounding said first-named sleeve, a bracket secured to the surrounding sleeve having an arm extending therefrom for engagement with the back of the plate and a further arm extending in the opposite direction and provided with a pair of ears directed outwardly therefrom, a wire mounted to oscillate in said ears extending over the edge of the plate to the front face thereof, a rule member carried by said wire, a spring about the inner end of the wire between said ears to normally hold the rule member under tension to the face of said plate, said wire having also a portion at the back of the plate for engagement with the conical lower end of the said inner sleeve when the rule member is moved away from the face of the plate, and a spring between said conical end of the inner sleeve and the lower edge of the surrounding sleeve to normally urge said inner sleeve downwardly for clutching the same to its rod.

In testimony whereof I affix my signature.

HOWARD B. COLES.