Oct. 2, 1923. 1,469,749

A. N. WOODRUFF

COPYHOLDER

Filed Sept. 3, 1921

Fig. 6.

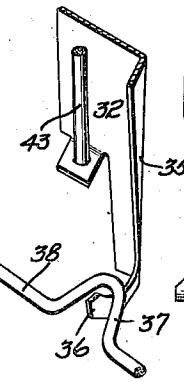


Fig. 1.

Fig. 2.

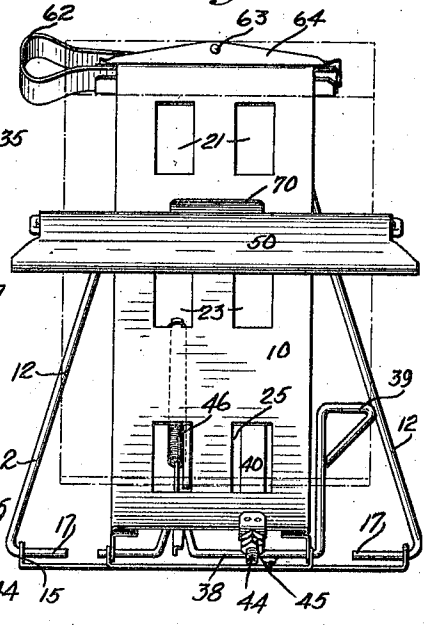


Fig. 3

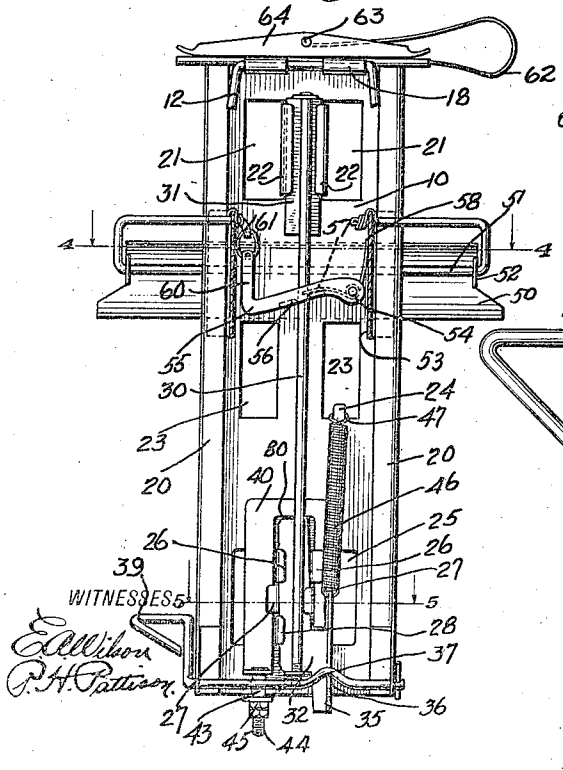


Fig. 4.

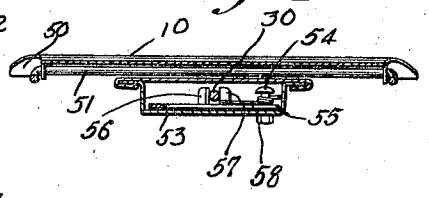
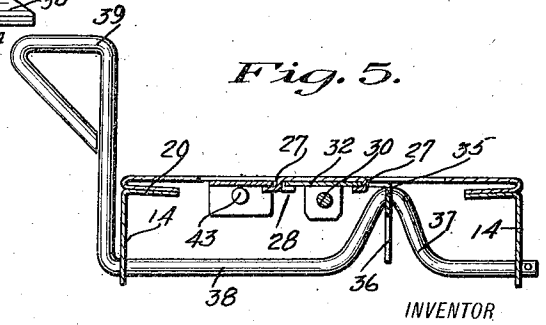


Fig. 5.



WITNESSES

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Patented Oct. 2, 1923. 1,469,749

UNITED STATES PATENT OFFICE.

ALBERT N. WOODRUFF, OF NEW YORK, N. Y.

COPYHOLDER.

Application filed September 3, 1921. Serial No. 498,295.

To all whom it may concern:

Be it known that I, ALBERT N. WOODRUFF, a citizen of the United States, and a resident of New York city, borough of Manhattan, in the county of New York and State of New York, have invented a new and Improved Copyholder, of which the following is a full, clear, and exact description.

The present invention relates to new and useful improvements in copy holders and pertains more particularly to devices of this character especially adapted for typists' use.

One of the primary objects of the invention is to provide a new and improved means for holding the copy in place upon the bed of the device.

It is a further object of the invention to provide a new and novel form of bed.

It is a further object of the invention to so construct a bed that the several movable parts are carried thereon in guides formed integral therewith, thus materially reducing the cost of manufacture of the device.

It is a further object of the invention to provide a new and novel form of line spacing mechanism.

It is a still further object of the invention to provide a line spacing mechanism, the scope of which may be adjusted at the will of the operator.

It is a still further object of the invention to so construct the line spacing mechanism that the line indicator may be operated to release the line spacing mechanism for the purpose of resetting the line indicator.

It is a still further object of the invention to provide a new and novel form of base for supporting the bed in operative position.

With the above and other objects in view, reference is had to the accompanying drawings, in which—

Figure 1 is a view in side elevation of the copy holder constructed in accordance with the present invention and set up in operative position.

Figure 2 is a front elevation thereof.

Figure 3 is a rear elevation partly in section, the base and prop therefor being broken away.

Figure 4 is a detail sectional view taken on the line 4—4 of Figure 3.

Figure 5 is a detail sectional view taken upon the line 5—5 of Figure 3.

Figure 6 is a detail sectional view of a portion of the operating mechanism.

Referring more particularly to the drawings, the reference character 10 designates the bed of the copy holder, 11 designates the base, and 12 designates the prop which maintains the bed in inclined position relative to said base 11.

The base 11 comprises a substantially triangular member provided with side flanges 13, by means of which said base is pivotally connected to side flanges 14 carried by the bed 10. At its opposite end, the base 11 is provided with side flanges 15 and said side flanges 15 are perforated as at 16 to receive the angular ends 17 of the prop 12. This prop 12 comprises a wire member pivotally mounted in ears 18 at the upper end of the bed 10, as more clearly shown in Figure 3, and the angular portions 17 of said prop are adapted to be sprung in place in their respective perforations 16 in the ears 15 of the base.

The bed 10 is formed preferably of sheet metal and is provided on its side edges with guide flanges 20, said guide flanges 20 being formed by bending the side edges of the bed 10 backwardly upon the body portion thereof. Near its upper end the bed 10 is provided with cut-out portions 21 and upon the inner edge of said cut-out portions 21 the material cut away is bent over upon the intervening portion to provide oppositely disposed guides 22, the purpose of which will be hereinafter more fully described. At a point substantially central of the ends of the bed 10, cut-out portions 23 are provided to lighten the bed and a tongue 24 projects inwardly of one of these cut-out portions 23, the purpose of which will be more fully hereinafter described.

Near the lower end of the bed 10, openings 25 are provided, and upon the inner edge of each of the openings 25 guides 26 and 27 are provided. At a point below the guides 27, a guide 28 is provided and the said guide 28 is bent in opposite direction to the guides 27 or in the same direction as the guides 26.

The reference character 30 designates a rigid rod and said rod is supported at one end by means of a plate 31 slidably mounted beneath the guides 22 formed upon the inner edges of the openings 21. The opposite end of this rigid rod 30 is supported upon a plate 32, and said plate 32 is slidably mounted within one of the upper guides 26, one of the intermediate guides 27 and the guide 28.

The lower end of this plate is provided with a flange 35, and said flange 35 is notched as at 36 to receive the bent portion 37 of a transversely extending operating member 38, which operating member 38 is provided with a handle 39.

Surrounding the plate 32 and mounted beneath one of the guides 27 and one of the guides 26 is a substantially U-shaped plate 40, and secured to said U-shaped plate 40 is a downwardly extending rod 43. This rod 43 is threaded as at 44 and is provided with two nuts 45, by means of which the said U-shaped plate may be adjusted relative to the bed 10. Connected to the upper end of the flange 35 heretofore mentioned is a coil spring 46, and said coil spring has its opposite end engaged over the hook member 24 as indicated by the reference character 47.

The reference character 50 designates a line indicator, and said line indicator extends transversely of the bed 10. This line indicator is pivotally mounted upon a sliding support 51 in the form of a wire member which projects through perforations in ears 52 depending from the line indicator 50. Slidably mounted in the guides 20 formed on the side of the base 10 is a housing 53, and the ends of said wire sliding support 51 are mounted in the said housing 53, as more clearly shown in Figure 3.

Pivotally mounted as at 54 in the housing 53 is a lever 55, and said lever 55 is provided with oppositely disposed biting teeth 56 and 57, shown in dotted lines in Figure 3 and in full lines in Figure 4. These biting teeth 56 and 57 are caused to engage the rigid rod 30 by means of a spring 58 which actuates to rock the lever 55 about its pivotal point 54 and which permits disengagement of the biting teeth with the rigid rod 30.

The pivoted lever 55 heretofore mentioned is provided with a right angular extension 60, and one of the ends of the support 51 is connected to this right angular extension by means of a link or the like 61. The reference character 62 designates a substantially U-shaped spring rigidly secured to the upper end of the bed 10 and pivotally mounted upon one end of said spring 62 as at 63 is a clamping plate 64.

The device operates in the following manner: The copy is placed upon the bed 10 with a portion thereof folded backwardly under the pivoted jaws 64 of the clamp at the top of the bed 10, as shown in dotted lines in Figure 1. The line indicator 50 is next positioned at the top of the bed adjacent the upper line of the copy. This is done by grasping the handle 70 of the line indicator and elevating it to rock the pivoted support 51 about its pivotal point in the housing 53. As this is done, the pivoted lever 55 is rocked about its pivotal point by the link 61 which is connected to a downwardly bent arm of the pivoted support 51 against the action of the spring 58 and the biting teeth 56 and 57 are disengaged with the rigid rod 30, in which position the line indicator 50 is free to move to the top of the bed 10.

After the first line of the copy has been completed and it desired to move the line indicator down a space, the operating handle 39 of the operating member 38 is grasped and rocked about its pivotal point. As this member is rocked, its hooked portion 37 engages the notch 36 of the flange 35 on the plate 32, and said plate 32 is reciprocated downwardly of the bed 10. Upon this movement, due to the fact that the biting teeth 56 and 57 are engaged with the rigid rod, the line indicator 50 will be moved downwardly of the bed 10 and upon release of the operating handle 39 under the influence of the spring 46, which has been placed under tension by the desired movement of the plate 32, said plate will be returned and the rigid rod 30 will slide freely through the biting teeth 56 and 57 to permit the operating mechanism to assume initial position without moving of the line indicator upwardly of the bed 10.

The upward or returned movement of the plate 32 is limited by reason of its engagement with the U-shaped plate 40 at the point designated by the reference character 80, and thus it will be seen that by adjusting the position of said U-shaped plate 40 relative to the bed 10 and changing the point at which the upper end of the plate 32 engages said plate 40, the movement of the line indicator may be varied, thus adapting the device to use with copies having various spaces between the lines. From the foregoing, it is apparent that the present invention provides a new and improved copy holder in which the distance traversed by the line indicator may be varied at the will of the operator and at the same time, a device which is of relatively low cost of manufacture is provided owing to the structure of the bed of the device.

Having thus described the invention, what is claimed is:

1. A copy holder comprising a base, a bed, means for supporting the base from the bed, side flanges formed on the bed and integral therewith, a line indicator, and a housing slidably mounted in said side flanges of the bed and having a support for said line indicator substantially as described.

2. A device of the character described comprising a bed provided with side flanges, a line indicator, means movable in the side flanges of the bed for slidably supporting the said line indicator, an operating means for said line indicator, and guides formed

integral with said bed and serving as guides for the line indicator operating mechanism substantially as described.

3. A device of the character described comprising a bed provided with side flanges, a line indicator movable longitudinally of said bed, means adapted for engagement beneath the side flanges and forming a support for said line indicator, an operating means slidably mounted on said bed and adapted for engagement with the line indicator to operate the same, a plurality of guides formed integral with said bed and adapted to provide the guiding means for said operating mechanism, and means slidably mounted on the bed for limiting the movement of the operating mechanism substantially as described.

4. A device of the character described comprising a bed provided with side flanges, a line indicator movable longitudinally of said bed, means adapted for engagement beneath the side flanges and forming a support for said line indicator, an operating means slidably mounted on said bed and adapted for engagement with the line indicator to operate the same, a plurality of guides formed integral with said bed and adapted to provide the guiding means for said operating mechanism, means slidably mounted on the bed for limiting the movement of the operating mechanism substantially as described, and guides formed integral with the bed and serving as means for guiding said operating mechanism stop in its sliding movement.

5. A copy holder comprising a bed, means for supporting the bed in inclined position, a line indicator reciprocatingly mounted upon said bed, operating means for reciprocating said line indicator, and a plurality of guides for said line indicator and its operating means, said guides being formed integral with the bed of the copy holder substantially as described.

6. A copy holder comprising a bed, a line indicator, a housing reciprocatingly mounted in said bed and serving as a support for said line indicator whereby the line indicator is reciprocated longitudinally of the bed upon reciprocating movement of said housing and means for reciprocating said housing, said means comprising a plurality of spaced reciprocating plates, a rigid rod carried by said plates, means carried by the housing and adapted for engagement with said rod, a transversely extending operating element adapted for engagement with a hook formed on one of said plates whereby said plate is reciprocated in one direction, resilient means for reciprocating the plate in the opposite direction, and adjustable means for limiting the movement of said plate when actuated by said resilient means.

ALBERT N. WOODRUFF.