

G. A. MARSH.

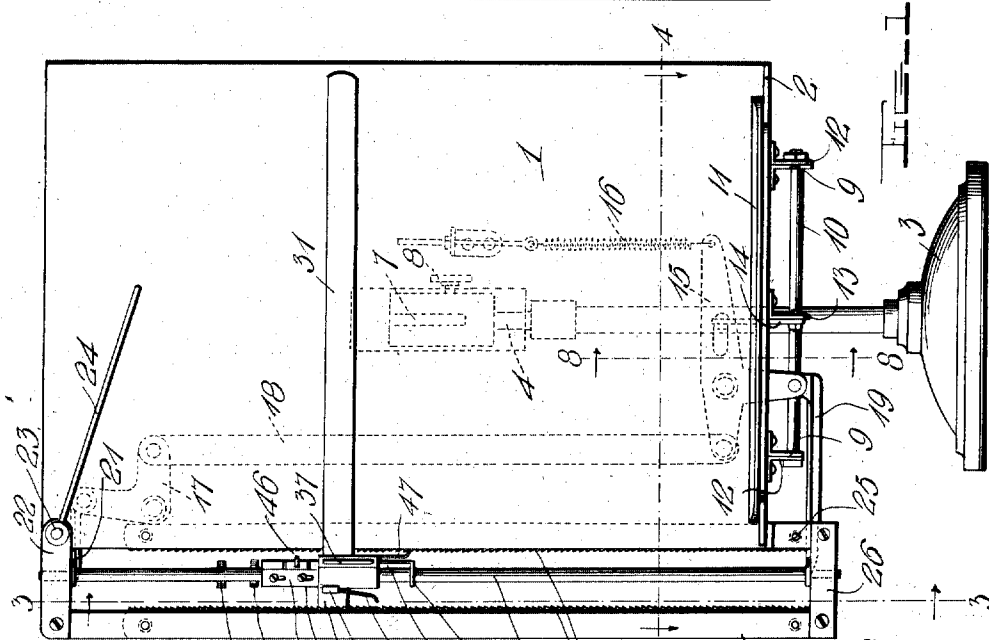
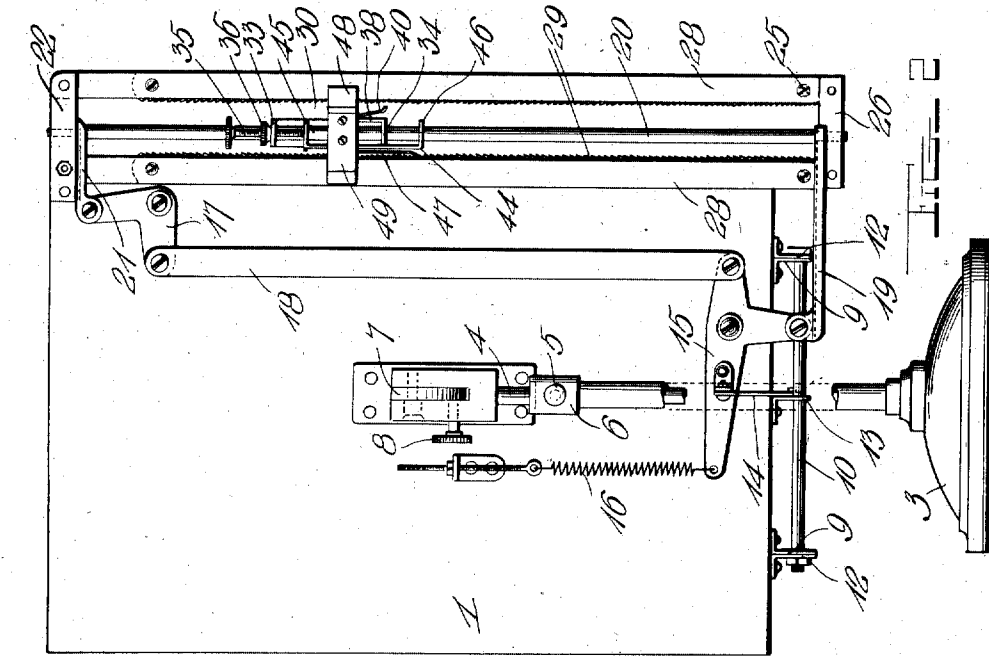
COPY HOLDER.

APPLICATION FILED SEPT. 20, 1910.

1,008,349.

Patented Nov. 14, 1911.

3 SHEETS-SHEET 1.



Witnesses

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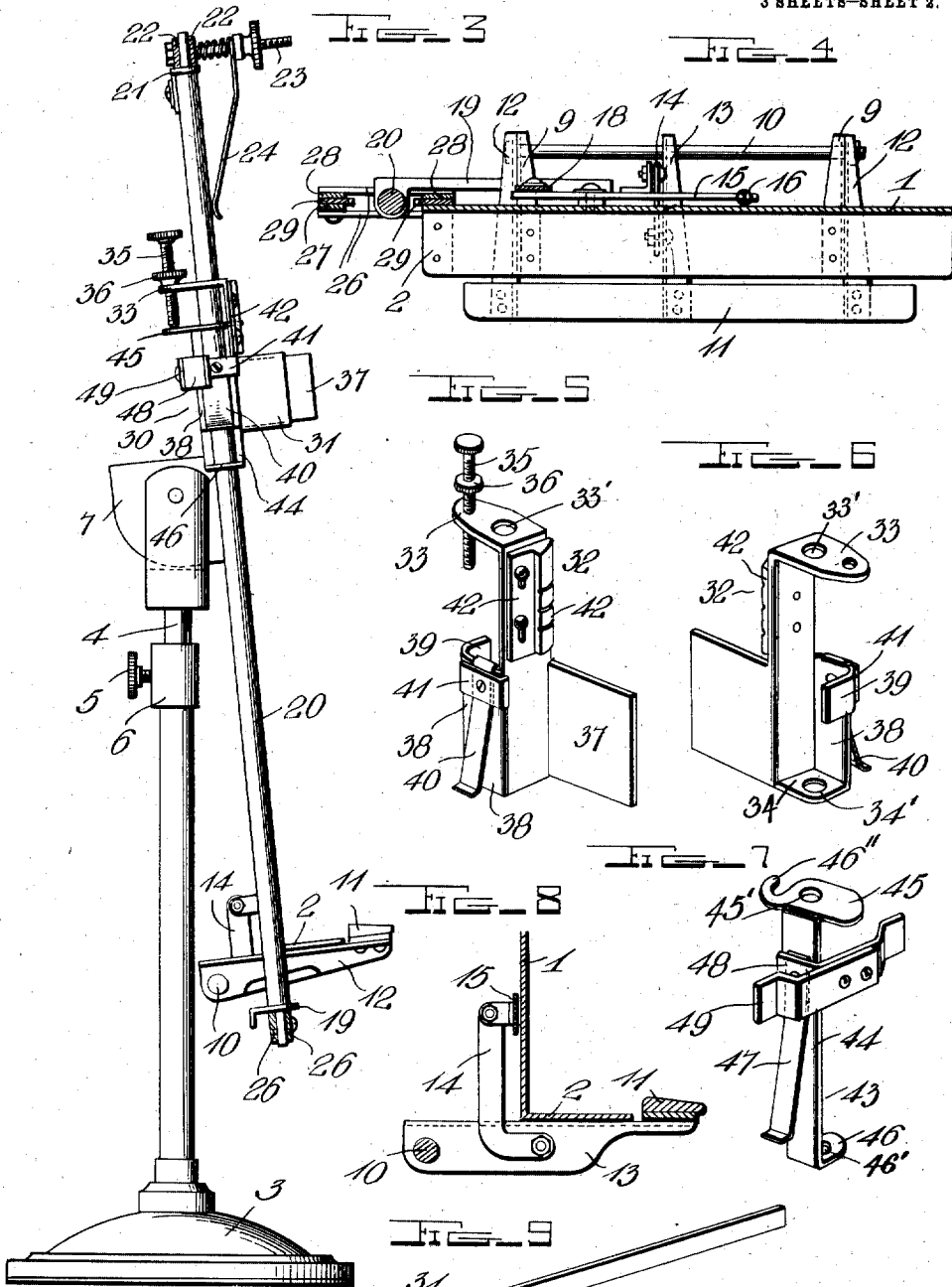
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3 SHEETS-SHEET 2.



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3 SHEETS—SHEET 3.

Fig. 10.

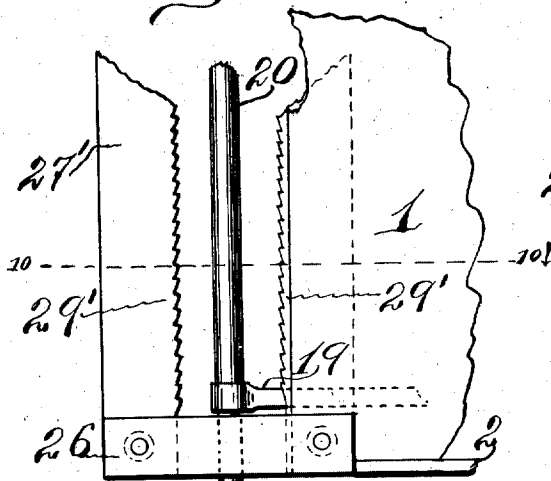


Fig. 10^a

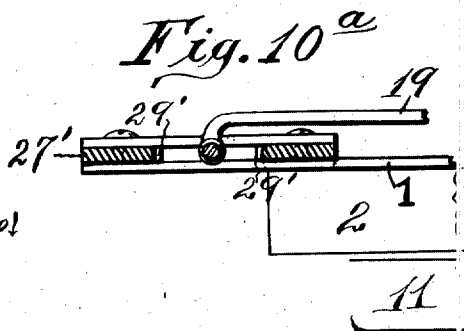


Fig. 11.

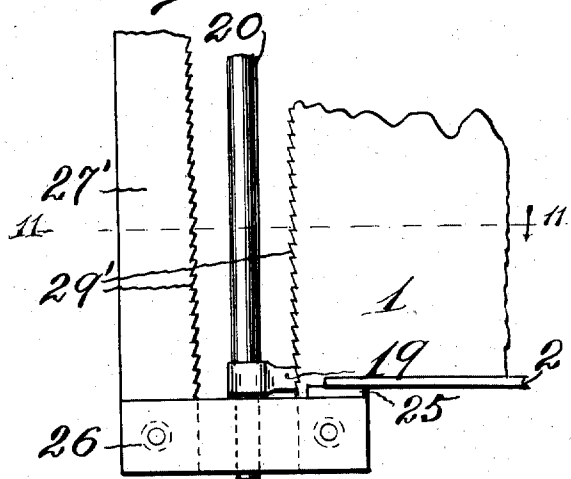
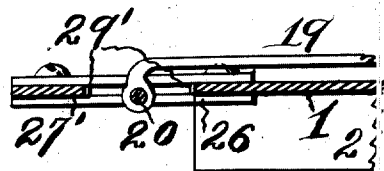


Fig. 11^a



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COPY-HOLDER.

1,008,349.

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To all whom it may concern:

Be it known that I, GEORGE A. MARSH, a citizen of the United States of America, and resident of Washington, in the District of Columbia, have invented certain new and useful Improvements in Copy-Holders, of which the following is a specification.

This invention relates to copy-holders; the improvements embodying means organized coöperatively so that when a spacing key is depressed a line indicator will be caused to move one step downward for a predetermined distance, and the present invention comprises associated means for effecting a step-by-step movement of a line indicator over the copy and in certain details of construction whereby a uniform depression of the spacing key will effect a predetermined downward movement of the line indicator over the copy, as will be hereinafter set forth and claimed.

The invention forming the subject matter of this application is illustrated by the accompanying drawings, in which—

Figure 1 is a front elevation of a copy-holder embodying my invention; Fig. 2, is a rear elevation; Fig. 3, is a vertical section taken on the line 3—3; Fig. 4, is a horizontal section taken on the line 4—4 of Fig. 1; Figs. 5, 6 and 7 are detail perspective views of the carrier for the line indicator; Fig. 8 is a perspective view of the line indicator; Fig. 9 is a detail section on the line 8—8, of Fig. 8, Fig. 10 is a fragmentary view showing a modified form in which one of the bars carried by the platen is notched. Fig. 10^a is a section taken on the line 10—10 of Fig. 10. Fig. 11 is also a fragmentary view of a further modification, and Fig. 11^a is a section taken on the line 11—11 of Fig. 11.

The accompanying drawings illustrate a preferred form of construction of the invention which may be modified as to details.

The platen 1 is provided at its lower portion with the usual ledge 2, said platen being maintained by a base 3 which has a hollow standard which receives a rod 4, that is held in its adjusted position by a set screw 5 that passes through a collar 6 and impinges upon the rod 4. The platen 1 has fast thereon a projection 7 that is secured to the slotted head on the upper end of the rod 4, and the platen is held at the desired

inclination by a set screw 8, the parts supporting the platen being of the usual construction, other supporting means for the platen may be substituted therefor.

The ledge 2 of the platen has fixedly attached thereto rearwardly extending supports 9, 9 which carry a bar 10, the spacing bar or key 11 being fulcrumed upon the bar 10 by means of arms 12, 12, and an intermediate arm 13 connected to the spacing bar or key is also fulcrumed upon the bar 10 and to said arm an angular link 14 is attached by a pivot or bolt.

The rear face of the platen has fulcrumed thereon a rock lever 15, that has a long arm which is normally held in raised position by a spring 16, one end of the spring engaging the lever and the other end of the spring is attached to an adjustable rod that passes through an apertured bracket attached to the rear surface of the platen, said adjustable rod being screw-threaded and is provided above the projecting portion of the bracket with a nut. The shorter arm of the rock lever 15 is connected to one of the arms of a bell crank lever 17 by a flat bar or rod 18, said bell crank lever being fulcrumed to the platen so that its upward extending arm will terminate a slight distance below the upper edge of the platen, as shown. The spring 16, lever 15 and link 14 will hold the spacing bar or key 11 in normally raised position; with its arms 12 and 13 against the underside of the ledge 2 of the platen 1. The downward movement of the spacing bar is about the same as the spacing bar of a typewriting machine and the force required to depress the spacing bar can be varied by adjusting the spring, the advantages of this arrangement will be appreciated as copy holders of this type are used in transcribing from copy to a typewriting machine.

The lever 15 which is fulcrumed upon the rear face of the platen has a depending arm to which a link 19 is connected and the other end of the link has an apertured offset through which is passed the lower end portion of a laterally movable rod 20, and the upwardly extending arm of the bell crank lever 17 has a similar, though shorter link 21 through which the upper end of the rod 20 is passed. It will be noted that when the spacing bar is depressed that the bar

will be moved from its normal position away from the edge of the platen and that the extremities of the rod 20 are reduced for the passage of the apertured ends of the links 19 and 21 such reduction providing shoulders against which the apertured lateral extensions bear.

The platen 1 is provided at its upper end with parallel bars 22, 22 and one of the connecting means for securing the bars in place may be a bolt or threaded stud 23 which projects forwardly to carry a resilient arm or bar 24, one end being coiled about the stud, its other end bearing upon the copy to hold the same in place upon the platen, and the tension of the spring or resilient arm may be varied by the thumb-nut that engages the threaded stud 23.

The underside of the ledge of the platen 1 adjacent to one side is provided with an angular extension 25 and to the lower end thereof is secured parallel bars 26, 26, of practically the same dimensions as the bars 22, 22 attached to the upper end of the platen. The outer ends of the bars 22 and 26 are connected by a strip or bar 27 which is of about the same thickness as the thickness of the platen and in practice the bar 27 will be provided with shoulders that correspond as to thickness with the thickness of plates or filling pieces between the rear bars 22 and 26, to provide a space of sufficient size to receive the reduced ends of the laterally movable rod 20. The platen 1 at a suitable distance from its upper edge and the angular extension 25 have threaded apertures like apertures in transverse alignment being formed in the bar or strip 27 for the reception of screws which hold in removable engagement flat strips or bars 28, 28 each having registering countersunk apertures and the screws hold in place not only the bars 28 but also ratchet bars 29, 29 which have holes or transverse slots to permit a limited range of adjustment of the ratchet bars which are held in place to project slightly beyond the inner edges of the platen and the bars or strips between which the ratchet bars are held.

The ratchet bars 29, 29 are each secured in place so that the inclined portion of the teeth will extend upward and in practice there may be used ordinary saw-blades with the set taken out when the copy holder is to be used for very fine work, as the movement of the line indicator downward over the copy is only limited by the spacing of the teeth. In practice instead of using ratchet bars made up of saw blades the edge of the platen may be serrated or notched and opposite thereto the inner side of the bar 27 may be notched, or as a full mechanical equivalent thereof the bars 28 may be formed with ratchet teeth.

Fig. 10 of the drawings shows a modifica-

tion wherein a bar 27' has notches, serrations or ratchet teeth formed in its edge which is nearest to the platen 1, and in this modification a similar bar is attached to the rear of the platen so as to extend beyond the edge of said platen. The bars 27' each have teeth 29' formed therein.

A further modification is shown by Fig. 11, wherein a bar the same as shown by Fig. 10 is used, but in the modification Fig. 11 the edge of the platen 1 which is nearest to the bar 27' has notches, serrations or ratchet teeth formed therein.

The slide 30 which is mounted upon the laterally movable rod 20 comprises two members or parts which form with the means heretofore described the support for the line indicator 31. The part or member 32, illustrated in detail by Figs. 5 and 6 is formed of sheet metal shaped to provide at its upper and lower portions projections 33 and 34 which have openings 33' and 34' therethrough for the passage of the rod 20, the upper projecting portion which extends farther rearward than the lower one has a threaded aperture for the reception of a set screw 35 that carries a lock nut 36. The longitudinal portion of the part 32 has below its center and on the side adjacent to the platen a forwardly projecting part 37 adapted to pass into the socket formed at one end of the line indicator and on the opposite side of the longitudinal portion from the projecting part 37 there extends a rearward extending part 38, such part having a part that extends substantially parallel with the longitudinal portion and provides a stop 39 for the other member of the slide. Attached to the part or member 38 of the slide 32, for engagement with the outer ratchet bar 29, there is a pawl or detent 40 that is preferably made up of a flat piece of spring steel the ends thereof being bent as shown, and this type of pawl is held in place by a screw and a cross piece 41. The front face of the longitudinal member of the slide has adjustably attached thereto a gage-plate 42, the purpose of providing such a gage-plate being to furnish an indicator for the pointer on the other member of the slide, the range of adjustment of the gage-plate being coordinated with the distance between the ratchet teeth on the bars 29 and when three gage-marks are used they will indicate close, medium and wide spacing or movement of the line indicator, to register with the spacing of type written copy or standard ruling of stationery.

The member 43 of the slide 30, as shown by Fig. 7, comprises a central portion 44 the ends being bent at right angles such projecting portion being apertures 45' and 46' for the passage of the rod 20, the blank from which the member is formed has at its upper end lateral extensions 45 and 46, one exten-

sion 45 providing a part with which the set screw 35 will engage and the other a hooked shape part 46'' that serves as a pointer the end of which overlies the gage-plate. The central portion 44 carries at an intermediate point a pawl or detent which is somewhat longer than that on the other member of the slide this pawl or detent 47 being connected to the part 44 by a screw which also holds in place a plate or arm 48, and to the arm or plate 48 is secured an arm or plate 49 that is bent at its end similarly to the arm 48.

The members 32 and 43 of the slide 30 are assembled upon the rod 20, when the same is detached from between the guide bars, by first placing the members of the slide together so that the pointer 46 will overlie the gage-plate 42 and the projecting part 45 will underlie the set-screw 35, the apertures being in alinement the members may be placed upon the rod 20 and when the rod is positioned between the slide bars 22 and 26 the pawl or detent will engage the ratchet bar 29 that is partially overlaid by the platen, being held against the same by the action of the spring 16.

In operation the line indicator is moved to the upper portion of the copy support, the operator grasping the projecting part 31 of the line indicator, the spring pawls or escapements either being pressed toward the slide or allowed to ride over one of the ratchet bars. The copy is held against the copy support by the spring 24 the lower edge of the copy resting upon the ledge 2. By turning the screw 35 the slide may be set to determine the fall or downward movement of the line indicator, which will be equal to the distance or space between the lines of the copy. When the key or space bar is depressed the motion will be converted and transmitted to the laterally movable bar or rod 20 which carries the slide, downward movement of the spacing bar against the action of the spring moving the bar away from the edge of the platen a distance sufficient to release the pawl or detent 47 from the ratchet bar with which it engages and such lateral movement will cause the pawl 40 to engage the opposite ratchet bar. When pressure is removed from the spacing bar the spring will return the rod 20 to its normal position, and the lateral movement of the rod 20 is such that one pawl will always be in engagement with its ratchet bar. To adjust the step-by-step movement of the indicator it is only necessary to turn the set screw carried by one slide so that the screw will impinge against the part of the other slide, the adjustment moving the pointer over the gage-plate carried by the part against which the screw impinges. The purpose of having the gage-plate adjustable is to provide for different

widths of spacing such as may be incident to different makes of typewriters or different diameters of cylinders.

In moving the escapement, which is practically two sliding collars with pawls, the collars or members having abutting portions at their upper ends, the pawl adjacent to the edge of the platen is pressed inward to prevent the pawl dragging over the ratchet bar in its upward movement.

The construction of the parts may be varied as to details not specified in the claims.

I claim—

1. In a copy holder, a copy support, a rod mounted to be moved laterally with reference to its normal position, means associated with the copy support and with the rod for moving the rod laterally, a line-indicator-carrier mounted to slide longitudinally upon the rod and means for holding the line-indicator-carrier against sliding movement upon the rod when the rod is in its normal position.

2. In a copy holder, a platen having teeth on its edge, a bar having teeth disposed oppositely with respect to the teeth of the platen, a rod mounted to shift with respect to the sets of teeth, a collar slidable on the rod, a yoke slidable on the rod, means on the collar for engaging the yoke to limit the movement of the collar, means on the collar for engaging one set of teeth, means on the yoke for engaging the other set of teeth, a line indicator carried by the collar, and means for shifting the position of the rod.

3. In a copy holder, a platen having teeth on its edge, a member having teeth supported with respect to the platen, a rod shiftable with relation to the sets of teeth, a collar slidable on the rod, a yoke embracing the collar and slidable on the rod, the said yoke contacting with the collar in its descent on the rod, means on the collar for engaging the yoke for limiting the movement of the collar on the rod, a line marker carried by the collar, means on the collar for engaging one set of teeth, means on the yoke for engaging the other set of teeth, and means for shifting the rod.

4. In a copy holder, a platen having teeth on its edge, a member having teeth supported with respect to the platen, a rod shiftable with relation to the sets of teeth, a collar slidable on the rod, a yoke embracing the collar and slidable on the rod, the said yoke contacting with the collar in its descent on the rod, means on the collar for engaging the yoke for limiting the movement of the collar on the rod, a marker carried by the collar, means on the collar for engaging one set of teeth, means on the yoke for engaging the other set of teeth, bell crank levers, links connecting the bell crank levers to the rod, and means for moving the bell crank levers.

5. A copy holder having a platen provided with fixed parts having serrated edges such parts being maintained in parallel alinement with each other, a rod maintained
 5 in laterally movable relation to the fixed parts having serrated edges, a line-indicator-carrier mounted to slide upon the rod and provided with means for engagement with the serrated edge on one of the fixed
 10 parts when the laterally movable rod is in its normal position, a second sliding member having means for engagement with the serrated edge of the other fixed part when the rod is moved, means carried by one of
 15 the sliding members mounted on the rod for engagement with the other sliding member to limit its movement when the rod is moved from its normal position and means associated with the platen and with the rod for
 20 moving the rod laterally to release the line-indicator-carrier.

6. In a copy holder, a platen, a way located to one side of the platen, a rod supported to be movable toward and away from
 25 the longitudinal edges of the way, an escapement mechanism mounted upon the rod and comprising two slidable members provided with means for engagement with the longitudinal edges of the way, means on one
 30 of the members of the escapement for restricting its sliding movement with respect to the other sliding member, means for laterally moving the rod to hold and release the members of the escapement and a line
 35 indicator maintained by the escapement mechanism.

7. In a copy holder, a copy support having associated therewith separated means provided with escapement teeth which are
 40 maintained in parallel alinement with one edge of the copy holder, a two part escapement mechanism each part having associated therewith a pawl, a laterally movable rod maintained by the copy support to be
 45 movable to and from the escapement teeth and upon which rod the escapement mechanism is mounted to slide thereon when the rod is moved from its normal position, means associated with the copy support and
 50 with the rod to move the rod laterally and a line indicator carried by one of the parts of the escapement mechanism.

8. In a copy holder, a copy support, ratchet bars maintained parallel with one of the edges of the copy support, a laterally movable rod maintained between the
 55 ratchet bars, an escapement in sliding engagement with said rod and comprising two members, a depressible spacing bar, a spring for holding the spacing bar in position to
 60 be depressed, means for connecting the spacing bar and the rod to move the rod laterally when the spacing bar is depressed and thus bring one or the other of said members of the escapement into engagement
 65 with the ratchet bar adjacent thereto and a line indicator carried by one of the members of the escapement.

9. In a copy holder, a platen having adjacent to one side a way and a rod, means
 70 for imparting lateral movement to one of the parts, an escapement comprising two independently movable members each mounted upon the rod and provided with means for engagement with the longitudinal edges
 75 of the way, means for restricting sliding movement of one member of the escapement with relation to the other member and a line indicator carried by one of the members of the escapement.
 80

10. In a copy holder, a platen, a movable rod maintained in longitudinal alinement with the platen, a line-indicator-carrier having independently movable members each
 85 member being maintained by and in slidable engagement with the rod, means on said line-indicator-carrier for preventing rotative movement thereof, a line indicator connected to one of the members of the line-indicator-carrier, adjustable means on one
 90 of the members of the line-indicator-carrier for contact with the other member of the line-indicator-carrier, fixed parts having serrated edges such parts being maintained in parallel alinement with the rod, means
 95 on each of the members of the line-indicator-carrier for engagement with said fixed parts and means for imparting a lateral movement to the rod.

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