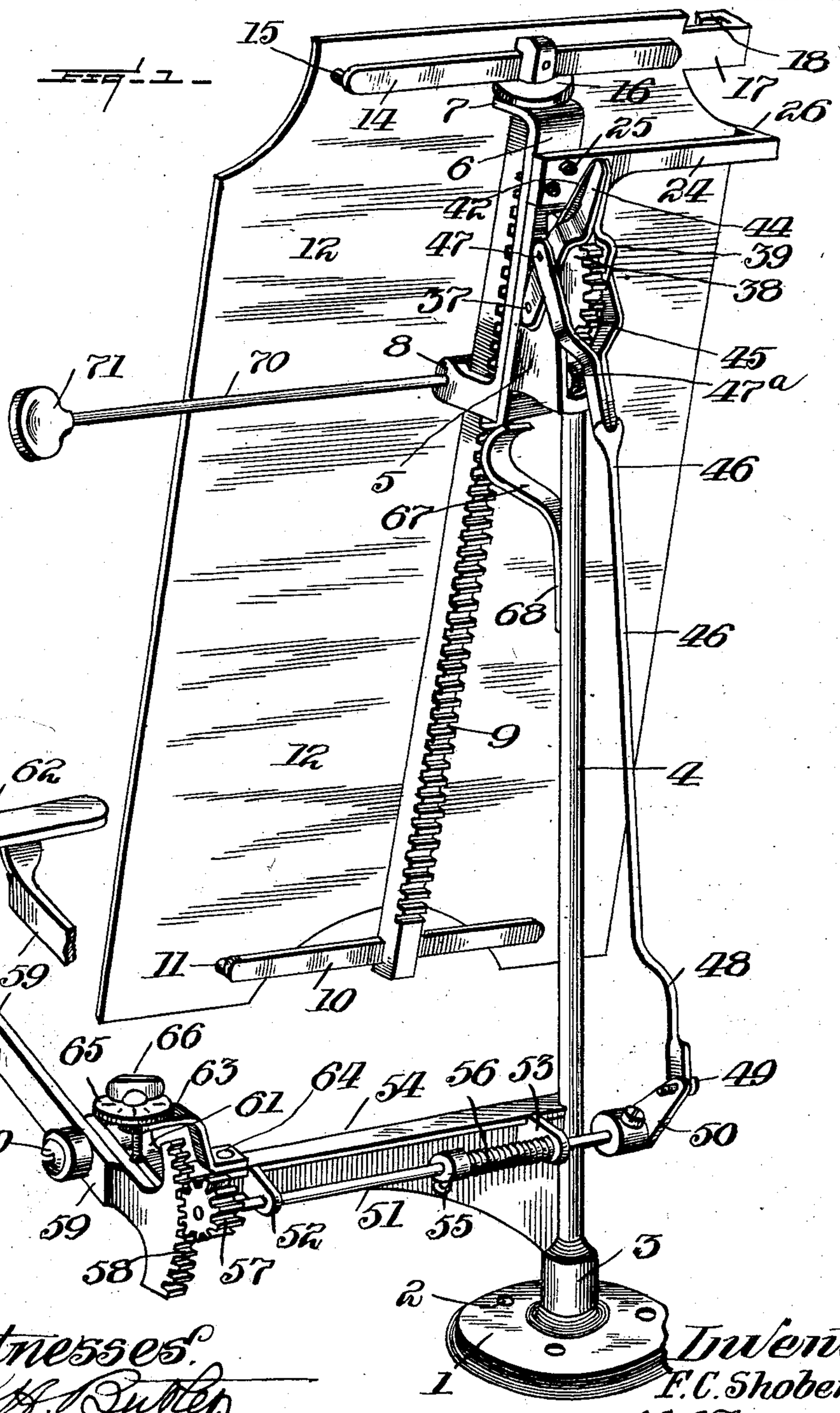
No. 750,230. PATENTED JAN. 19, 1904.

F. C. SHOBERT.

COPY HOLDER.

NO MODEL. APPLICATION FILED JUNE 25, 1902. 2 SHEETS—SHEET 1.

Fig. 1.



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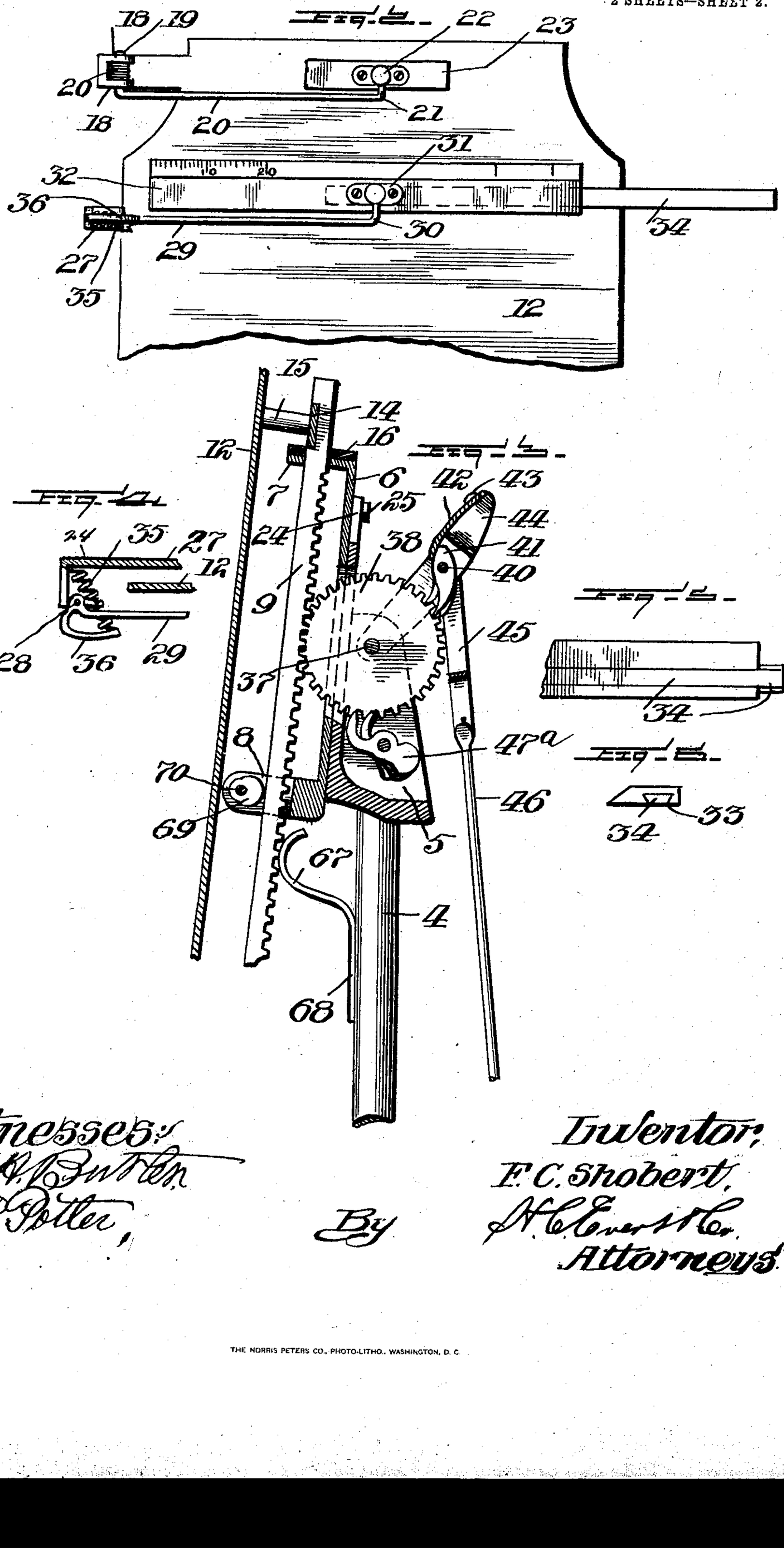

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No. 750,230. Patented January 19, 1904.

UNITED STATES PATENT OFFICE.

FREDERICK C. SHOBERT, OF PITTSBURG, PENNSYLVANIA.

COPY-HOLDER.

SPECIFICATION forming part of Letters Patent No. 750,230, dated January 19, 1904.

Application filed June 25, 1902. Serial No. 113,081. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK C. SHOBERT, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Copy-Holders, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in copy-holders, and relates more particularly to that class used by type-writers, stenographers, copyists, and printers.

The present invention has for its object the provision of novel means whereby the paper containing the copy, manuscript, or stenographic notes may be gradually advanced line for line to appear above the gage, which will indicate the exact line to be copied, said gage always retaining the same level which may be convenient to the eye.

My invention also contemplates to provide a novel form of rack which will move upwardly a predetermined distance, which distance may be accurately gaged to conform with the spaces between the lines of the copy that is to be made or transcribed; furthermore, to provide a novel form of mechanism that will permit the succeeding page of the copy to be readily displayed upon the rack and to provide releasing mechanism of the rack that will automatically lower the same to the position to display the first line of the sheet or copy when it is desired to commence a new copy or when it is necessary to copy the succeeding page.

My invention further aims to provide a rack that may be easily adjusted to any position in case the paper is of a shorter length than the ordinary legal cap; furthermore, to provide a copy-holder that will retain the copies of greater width, such as ledger-folio and larger legal documents.

Another object of this invention is to provide a gage which will correspond in width and contain graduations thereon that will correspond with the type-writer gage in order to accurately determine the letters and spaces between the words that are to be reproduced; furthermore, to provide such gage with a sliding extension in case documents are to be copied that are of greater width than the ordinary legal cap.

The present invention still further contemplates to provide a device of the above-described character that will be extremely simple in construction, strong, durable, comparatively inexpensive to manufacture, and highly efficient in its use.

With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claims.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate like parts throughout the several views, in which—

Figure 1 is a perspective view of my improved copy-holder, showing the rear of the same and the assembled parts of the operating mechanism. Fig. 2 is a fragmentary front view of the copy-rack, showing the clamp to retain the paper and the gage carrying the extension. Fig. 3 is a vertical sectional view of a portion of the rack and mechanism to actuate the same. Fig. 4 is a sectional view which illustrates particularly the connection between the bracket and swinging arm to which the guide is secured. Fig. 5 is a fragmentary view of the end of the gage. Fig. 6 is an end view thereof.

In the drawings the reference-numeral 1 represents a suitable base having openings 2 formed therein to receive fastening means which will permit the device to be readily secured to the frame of the type-writer, stand, or any other suitable support, said base being preferably annular in form and is preferably provided with a boss 3, to which is rigidly secured the standard 4, said standard carrying at its upper end the casing 5. To this casing is rigidly attached the plate 6, carrying outwardly-extending ends 7 and 8 and having formed therein suitable openings, said ends 7 and 8 forming guides adapted to receive the toothed rack-bar 9, said rack-bar being attached at its lower end to the cross-head 10, carrying lugs 11 on each end, which are rig-

idly secured to the copy-holder plate 12. The upper end of the said toothed rack-bar is secured in like manner to a cross-head 14, carrying lugs 15 at each end, which are rigidly attached to the rack 12.

Directly under the cross-head 14 upon the toothed rack-bar 9 is rigidly secured a rubber block or buffer 16, and formed integral with the copy-holder plate 12, at one side near the upper end thereof, is an outward extension 17, which forms bearings 18 on the front face of the rack 12. In said bearing is journaled a shaft 19, and a coiled spring 20 encircles said shaft, the one end of said spring being attached to the bearing 18 and the other end of the spring being attached to the shaft 19, the said shaft 19 forming a hinged arm 20, the end of which is bent upwardly, as shown at 21, and pivotally secured in the bearing 22 of the paper-clamp 23, which serves to securely retain the paper upon the copy-holder plate. A bracket 24 is rigidly secured, as at 25, to the plate 6 and extends outwardly slightly beyond the rack 12, where it is bent at right angles, as shown at 26, forming the bearing 27, in which is pivotally secured, as at 28, the spring-pressed arm 29, the other end of said spring-pressed arm 29 being bent upwardly, as shown at 30, and pivotally secured in a bearing 31 of the gage 32. Extending in longitudinal alinement in said gage is formed a dovetail groove 33 to receive the dovetail extension 34.

The reference-numeral 35 represents a coiled spring, secured to the bracket 24 at one end and the other end attached to the extension 36 of the arm 29, this spring serving to normally retain and press the gage upon the surface of the paper containing the copy.

In the casing 5 is secured a shaft 37, upon which is loosely mounted the cog-wheel 38, said cog-wheel meshing with the toothed rack-bar 9. The ends of said shaft 37 extending through the sides of the casing 5 are rigidly secured in the yoke 39. In said yoke are mounted upon the shaft 40 a number of spring-pressed pawls 41, held in position by a number of springs 42, secured at 43 to the upper extension 44 of the yoke 39, the lower free ends of said springs bearing against the pawls 41. The bifurcated end 45 of the operating-lever 46 is attached, as at 47, to the shaft 40, which extends through the yoke 39. A number of gravity-pawls 47[a] are also pivatally secured within the casing 5, which serve to lock the cog-wheel 38 as the device is operated. The lower end of the operating-lever 46 is slightly bent outwardly, as shown at 48, and attached pivotally to the crank-pin 49 of the crank-arm 50, which is secured at one end of the shaft 51, extending through bearings 52 and 53, which are formed integral with the bracket 54, which is rigidly attached to the standard 4. This shaft 51 carries a collar 55, and between said collar 55 and bearing 53 is secured a coiled spring 56, which encircles the shaft 51, the one end of the spring being secured in the collar 55 and the other end of the spring being secured to the bearing 53, said spring serving to return the operating mechanism to its normal position after each operation. The other end of the shaft 51 carries a pinion 57, which meshes with the segmental cog-rack 58, formed at the end of the operating-lever 59, said lever being fulcrumed, as at 60, to the extension 61 of the bracket 54. To the other end of the said operating-lever 59 is secured a cross-piece 62, serving as a key for the depression of the operating-lever. The bearing 63 is secured at 64 on the upper face of one end of the bracket 54, said bearing carrying a dial 65, through which passes the regulating-screw 66, the latter regulating the stroke of the operating-lever 59.

A curved flat spring 67 is rigidly secured, as at 68, to the standard 4 and normally presses against the inner face of the cog-rack 9, while the other side of the said cog-rack is engaged and retained in position by means of the cam 69, mounted upon the shaft 70, extending through bearing 8, said shaft being elongated, extending beyond the side of the rack, and carries on its end the head 71.

The operation of my improved copy-holder is as follows: The gage 32 by reason of the hinged arm 29, in which it is pivotally secured, being permitted to swing and the side of the rack will permit the paper containing the copy to be easily secured under the spring-pressed clamp 23, and the gage is then again placed in position, the copy-holder being in position as illustrated in Fig. 1, when the operation is commenced. After the first line has been copied and in order to display the next line above the gage the key 62 is depressed, thereby rocking the operating-arm 59 upon the fulcrum-point 60 and communicating rotary movement to the pinion 57, which meshes with the segmental cog-rack 58, said pinion rotating the shaft 51 and increasing the tension of the spring 56, operating the crank-arm 50, which in turn communicates movement to the operating-lever 46, operating upon the crank-pin 49. The said operating-lever 46 being drawn downwardly will carry with it the yoke 39, which is pivotally secured to the bifurcated end of the operating-lever. Said yoke carrying the operating-pawls 41 will communicate movement to the cog-wheel 38, which in turn will operate the rack upwardly a predetermined distance, the gravity-pawls 47[a] serving to prevent the reverse movement of the cog-wheel 38. As soon as the key 62 has been released the spring 56 being under tension will serve to return the parts to their normal position automatically, and the device will then be in readiness for the succeeding operation to indicate the next line of the copy. When the lowermost line of the copy has been displayed above the gage 32, the head 71 of the shaft 70 is turned, thereby releasing the

copy-holder plate, and by reason of the tension of spring 67 the toothed rack will be automatically disengaged from the cog-wheel 38, and the rack will be permitted to drop by gravity to its first or original position, the jar caused by this operation being cushioned by the rubber block 16 coming in contact with the guide 7. When it is desired to regulate the space between the lines of the copy to a greater or less degree, the same is accomplished by the turning of the regulating-screw 66, which forms an adjustable stop for the end of the operating-lever 59. It will therefore be readily seen that my improved device may be adjusted in a manner that will permit the paper to be shifted a minimum degree, which is equal to the distance between the teeth of the cog-rack, and may be adjusted to the maximum degree, which is equal to one-half revolution of the cog-wheel upon the cog-rack. It will also be noted that by the gage 32 carrying the graduations, which graduations correspond with that of the type-writer, will greatly assist the operator in making a line-for-line copy and to further determine the exact spacing and position of the letters on each line. Furthermore, in case documents being copied are of greater width than the ordinary legal cap the extension carried by the gage is adjusted to the end of the paper, which will serve as a guide for the copyist.

The many other advantages obtained by the use of my improved device will be readily apparent from the foregoing description, taken in connection with the accompanying drawings.

It will be noted that various changes may be made in the details of construction without departing from the general 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, the combination of a copy-holder plate, means to elevate said copy-holder plate, means to release said copy-holder plate from said first-named means, and means to automatically lower said copy-holder plate.

2. In a copy-holder, the combination of a copy-holder plate, a cog-rack secured thereto, a suitable standard, a cog-wheel mounted in said standard engaging said cog-rack, and means whereby said cog-wheel is operated to elevate the said cog-rack and copy-holder plate, substantially as described.

3. In a copy-holder, the combination of a copy-holder plate, a cog-rack secured to the rear face thereof, a standard carrying a casing, a cog-wheel secured in said casing, means to actuate said cog-wheel, and a gage that will retain its position during the operation of said cog-rack, substantially as described.

4. In a copy-holder, the combination of a copy-holder plate, a cog-rack secured to the rear face thereof, a suitable standard or support, a casing secured to the upper end of said standard, a cog-wheel secured in said casing, guides secured to said casing through which said cog-rack operates, a bracket rigidly secured to said standard, and a spring-pressed gage secured to said bracket, substantially as described.

5. In a copy-holder, the combination of a copy-holder plate, a cog-rack secured thereto, means carried by said copy-holder plate to retain the copy, a suitable standard or support carrying a casing at its upper end, a cog-wheel secured in said casing, operating-pawls to actuate said cog-wheel, means to actuate said pawls, and gravity-pawls to retain said cog-wheel in an inoperative position, substantially as described.

6. In a copy-holder, the combination of a copy-holder plate, a cog-rack secured thereto, a suitable standard or support, a casing secured to the upper end of said standard, a cog-wheel rotatably mounted in said casing, and means to engage and disengage said cog-rack with said cog-wheel, substantially as described.

7. In a copy-holder, the combination of a movable copy-holder plate, a cog-rack secured thereto, a suitable standard or support, a casing secured at the upper end of said standard, a cog-wheel rotatably mounted in said casing, guides rigidly secured to said casing through which said cog-rack operates, a yoke secured to the shaft of said cog-wheel, operating-pawls secured in said yoke, an operating-lever, a shaft and crank-shaft connecting the lower end of said operating-lever, a pinion carried by said shaft, a segmental cog-rack meshing with said pinion, and an operating-lever formed integral with said segmental cog-rack, substantially as described.

8. In a copy-holder, the combination of a suitable base, a standard secured to said base, a bracket secured to said standard, a casing secured to the upper end of said standard, a shaft extending through said casing, a cog-wheel loosely mounted upon said shaft, a yoke secured to the ends of said shaft, spring-pressed pawls secured in said yoke operating upon said cog-wheel, gravity-pawls secured in said casing to lock said cog-wheel, an operating-rod connected to said yoke, a crank-arm secured to the lower end of said operating-rod, a shaft secured to said crank-arm, a spring encircling said shaft, the one end of said spring being connected to said bracket, a pinion secured to the end of said shaft, a segmental cog-rack meshing with said pinion, an operating-lever formed integral with said segmental cog-rack, a bearing secured to said bracket, a regulating-screw extending through said bearing, forming a stop for said operating-lever, guides carried by said casing, a copy-holder plate, a cog-rack secured to the rear face of said copy-holder plate operating through said guides, and means whereby said

rack and cog-wheel may be thrown into and out of engagement, substantially as described.

9. In a copy-holder, the combination of a suitable base, a standard secured to said base, a bracket secured to said standard, a casing secured to the upper end of said standard, a shaft extending through said casing, a cog-wheel loosely mounted upon said shaft, a yoke secured to the end of said shaft, spring-pressed pawls secured in said yoke operating upon said cog-wheel, gravity-pawls secured in said casing to lock said cog-wheel, an operating-rod connected to said yoke, a crank-arm secured to the lower end of said operating-rod, a shaft secured to the crank-arm, a spring encircling said shaft, the one end of said spring being connected to said bracket, a pinion secured to the end of said shaft, a segmental cog-rack meshing with said pinion, an operating-lever formed integral with said segmental cog-rack, a bearing secured to said bracket, a regulating-screw extending through said bearing, forming a stop for said operating-lever, a rack, a spring-pressed arm carried by said rack, a clamp pivotally connected to said arm to retain the paper in position upon the said rack, a cog-rack secured to the rear face of said rack, guides secured to the casing through which said cog-rack operates, a bracket rigidly secured to said guides, a spring-pressed hinged arm secured in said bracket, and a guide or line indicator pivotally secured to the end of said arm, and an extensión slidably secured in said guide or line indicator, substantially as described.

10. In a copy-holder, the combination of a copy-holder plate, means to retain a copy thereon, means to raise said plate, and independent means to release said plate.

11. In a copy-holder, the combination of a copy-holder plate, a suitable support, a stationary gage carried by said support, means to elevate said plate, and releasing means whereby said plate is automatically lowered.

12. In a copy-holder, the combination of a copy-holder plate, a suitable support, and a buffer arranged between said support and copy-holder plate.

13. In a copy-holder, the combination of a copy-holder plate, means to elevate said plate, means to regulate the intermittent movement of said last-named means, and means to automatically lower said plate.

14. In a copy-holder, the combination of a copy-holder plate, means carried thereon to retain the copy, means to elevate said plate, a stationary gage, means to release said plate, means to automatically lower said plate, and a buffer to cushion the downward movement of said plate, substantially as described.

15. In a copy-holder, the combination with an intermittently-movable copy-holder plate, of a scale mounted to lie in front of the copy carried by said plate and adjustable lengthwise to conform to the width of said copy, substantially as described.

16. The combination with an intermittently-movable copy-holder and means for intermittently actuating said holder, of a graduated scale adjustable lengthwise whereby it is adapted to different-width copy, substantially as described.

17. In a copy-holder, the combination of a copy-holder plate, and means for imparting an intermittent or step-by-step movement to said plate, of separate means for lowering said copy-holder plate and locking the same at any desired point of its travel, substantially as described.

18. In a copy-holder, the combination with a copy-holder plate, and means for imparting an intermittent or step-by-step movement to said plate, of means for automatically lowering the said plate any desired distance within the limit of its travel, and means for regulating the distance traveled by the copy-holder plate at each operation thereof, substantially as described.

19. In a copy-holder, the combination with a copy-holder plate, of a spring-pressed graduated scale mounted to lie in front of and engage the copy carried by the plate, said scale being adjustable lengthwise whereby it is adapted to different width of copy, substantially as described.

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

FREDERICK C. SHOBERT.

Witnesses:
JOHN NOLAND,
E. E. POTTER.