L. G. NELSON.

COPY HOLDER.

APPLICATION FILED SEPT. 29, 1915.

1,292,018.

Patented Jan. 21, 1919.

3 SHEETS—SHEET 1.

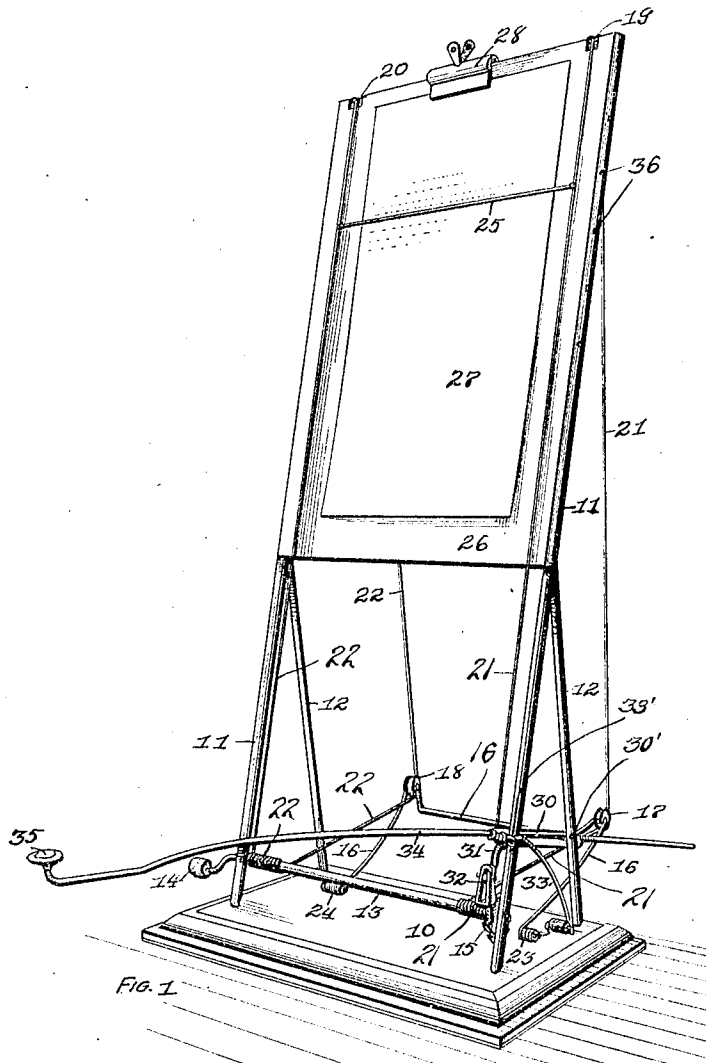


FIG. 1

WITNESSES

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3 SHEETS—SHEET 2.

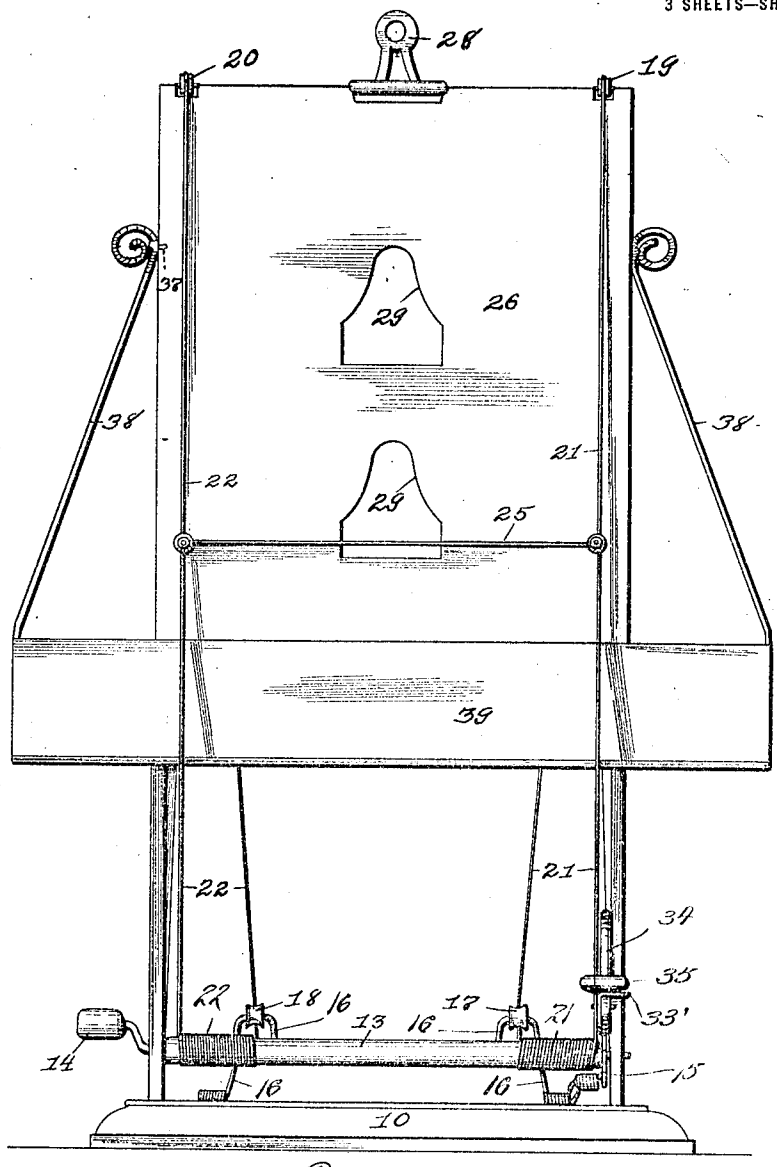


Fig. 11

WITNESSES

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3 SHEETS—SHEET 3.

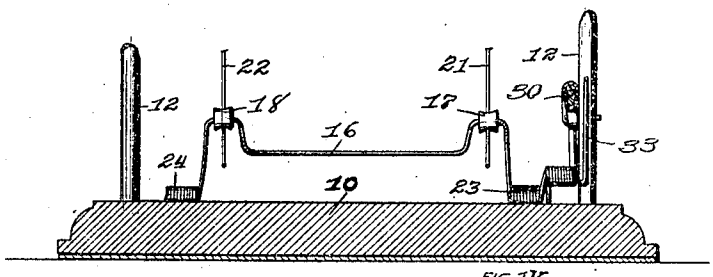


FIG. IV

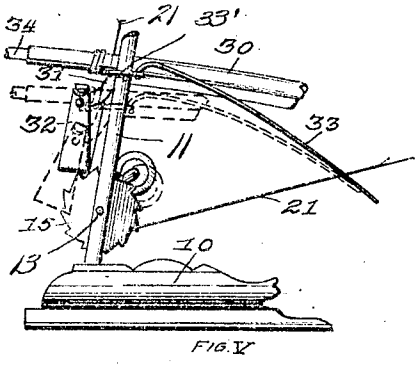


FIG. V

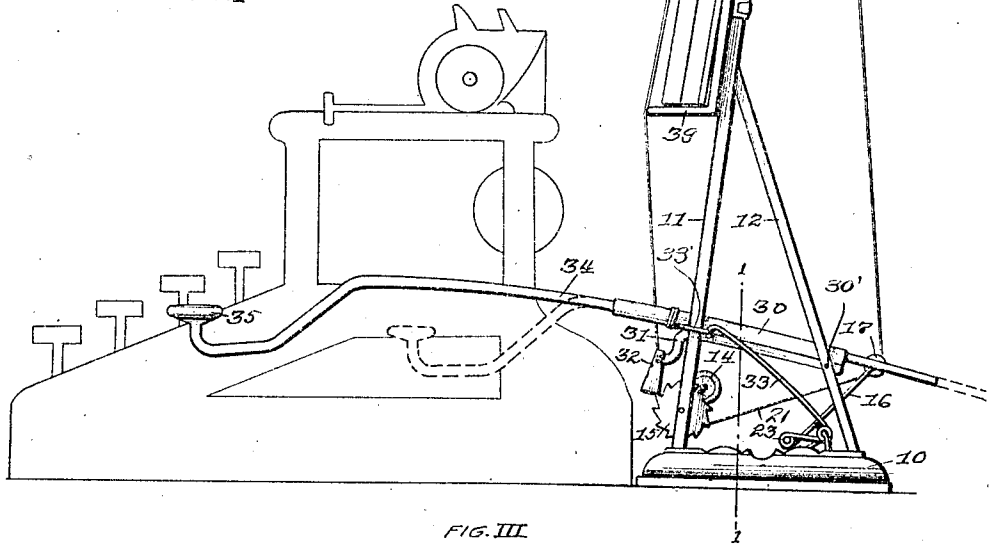


FIG. III

WITNESSES

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UNITED STATES PATENT OFFICE.

LARS G. NELSON, OF GARDEN CITY, IOWA.

COPY-HOLDER.

1,292,018. Specification of Letters Patent. Patented Jan. 21, 1919.

Application filed September 29, 1915. Serial No. 53,174.

To all whom it may concern:

Be it known that I, LARS G. NELSON, a citizen of the United States, residing in Garden City, county of Hardin, and State of Iowa, have invented a new and useful Improvement in Copy-Holders, of which the following is a specification.

The object of my invention is to provide a copy holder adapted for easy and convenient placement for use for the typewriter or for general long hand copy work on a desk. A further object is to provide my device with a line indicator with easy means for quickly shifting same to underline and indicate the successive lines as the copying proceeds.

A further object is to produce such a device in a simple, strong, durable and practically inexpensive construction so that it may be practical for the ordinary office use.

My invention consists of certain details of construction, hereinafter set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which Figure I shows a perspective view of my device a sheet of copy paper being in position thereon;

Fig. II shows a front elevation view of my device with the book holding attachment secured thereto;

Fig. III shows a side elevation view of my device, the outline of a typewriter being shown in position with relation thereto, a dotted line in the figure indicating the slidingly adjustable line indicator lever;

Fig. IV shows a detail view, partially in section, of the base, a lower part of my device;

Fig. V shows a detail view of the shift lever for the line indicator and the ratchet attachment which controls the movement of the line indicator by the operation of the shift lever.

Referring to the accompanying drawings, the reference numeral 10 is used to indicate the base of my device to which is secured a rectangular frame 11 which extends upwardly therefrom and is inclined slightly toward the rear, the braces 12 holding said frame in rigid position. Mounted, for rotation, near the base of the standards of the frame 11 is a horizontal shaft 13, provided with a hand crank lever 14 on one of its ends, and a ratchet wheel 15 mounted just inside the standard on its other end. Secured to the base 10, in the rear of the frame 11 is a spring actuated wire support 16, said support being secured to said base at each of its ends, and being so bent as to form two bearings for rotating grooved wheels 17 and 18 respectively. The positions of each are such that they are spaced apart more than the width of an ordinary sheet of paper and are in the rear of the frame 11, each of said wheels being equidistant from its respective side of the frame 11 and each being mounted for rotation for purposes hereinafter set forth. The numerals 19 and 20 indicate small pulley wheels secured, one near each side of, and to the upper extremity of, the frame 11, said wheels being in alinement with the grooved wheels 17 and 18 respectively, and also being mounted for rotation. The numeral 21 indicates a cable, or cord secured to one end of the shaft 13, and wound around same for a few revolutions. The cord extends thence rearwardly therefrom under the grooved wheel 17, thence upwardly over the grooved wheel 19 thence downwardly to a connection with the shaft 13, at, or near, its place of beginning. The numeral 22 indicates a like, and companion cord, secured near the other end of the shaft 13 wound around same for a few revolutions, extending thence rearwardly under the grooved wheel 18 thence upwardly over the grooved wheel 20, thence downwardly to a connection with the shaft 13, at, or near, its place of beginning. The coiled springs 23 and 24, wound into the wire 16, throw the tension of the mountings for the wheels 17 and 18, downwardly, thus obviously providing and maintaining a tight and uniform tension on the cords 21 and 22. The numeral 25 indicates a metal wire or line-guide extending transversely across the front of the frame 11 and having its ends rigidly secured to the cords 21 and 22, said rod being mounted in a horizontal plane. The numeral 26 indicates a sheet metal, or the like, member secured to the forward part of the standards of the frame 11, said member being designed as a backing, or support, for the copy sheet 27, which is held in place by means of any ordinary clamp, 28, being over the upper part of the frame 11 and engaging the sheet 27. The said member 26 is provided with a plurality of orifices 29, designed for receiving the clamp 28 at various distances from the top of the frame, for purposes hereinafter set forth.

The numeral 30 indicates a hollow shaft or lever pivotally secured at 30′ to one of the braces 12 and extending forwardly therefrom to a point in advance of the standards of the frame 11, and being movably secured, for upward and downward movement, to said standards. The numeral 31 indicates a lug secured near the forward end of said hollow shaft 30 and depending from said lug is a loosely mounted pawl 32, being so placed as to be designed for engagement with the ratchet teeth on the ratchet wheel 15. The numeral 33 indicates a spring secured to the base 10 at one end and at its opposite or upper end to a loop member 33′ which is carried by the hollow shaft or lever and extends around the adjacent standard 11 for guiding the forward end of said shaft, the hollow shaft 30, and it is designed to actuate the hollow shaft for returning it to its normal position, after it has been moved by the operator. The numeral 34 indicates a rod passing through the hollow shaft 30 and extending rearwardly and forwardly therefrom, the forward end of the said rod being provided with a finger key 35. The mounting of the rod 34 in the hollow shaft 30 is such that while the rod may be pushed forward and backward through its mounting, yet it binds sufficiently tight to hold it in proper relation so that the finger key 35 maintains its proper position.

I have provided a series of orifices 36 in each side member of the frame 11 and these said orifices are designed to operate in pairs, one on each side of the frame for the purpose of receiving and forming securing means for lugs 37, secured to brace rods 38, extending upwardly from an L shaped frame 39 which is designed as a book rack. The frame 39 is sufficiently long that it extends beyond each side member of the frame 11 when the book retaining frame is placed in position as shown in Fig. II. In placing the book retaining frame in position it is projected under the cords 21 and 22 so that the indicating rod 25 will engage the open surface of the book which is to be placed upon the rack. The series of orifices 36 are to provide for adjustment for the book retaining frame upon the frame 11 as may be desired by the operator.

In practical operation my device is placed in position immediately behind the typewriter, as shown in Fig. III. The lever 34 extends forwardly alongside the typewriter and is adapted to be within the handy reach of the operator. The operator secures the copy sheet to the frame 11 by means of the clamp 28, the sheet resting against the member 26. The crank 14 is rotated so that the indicator 25 is moved to the proper position on the copy sheet, being the first line thereof. The tension of the spring upon the guide wire 16 causes the cords 21 and 22 to assume tight positions flush with the copy sheet, thereby causing the indicating rod 25 to engage the copy sheet immediately under the first line of the copy. As the operator finishes copying the first line he strikes the finger key 35 thus causing the pawl 32 to engage the tooth on the ratchet 15 thereby rotating the shaft 13 to a limited degree. This causes the cords 21 and 22 to be moved downwardly on the copy sheet thus bringing the indicating rod 25 downwardly to a position below the next line of the copy. This operation is repeated until the sheet is completely covered, at which time the shaft 13 is again rotated, in a reverse direction, and by lifting pawl 32 from its ratchet 13 the indicating rod 25 raised to a position immediately beneath the first line of the next copy sheet.

In copying from a book the book rack 39 is mounted upon the frame 11 in the manner hereinbefore described and the indicating rod 25 moved to the desired position on the printed page. Thereafter the operation of copying from a book is exactly similar to that hereinbefore described.

The base 10 of my device is of sufficient size and weight that the operation of the lever 34 will not cause it to move from its position.

If it is desired to use my copy holder for long hand copy, or any copying other than with a typewriter, it is placed in any desired position upon the desk and the copy sheet may be secured at any desired height in the frame 11, so far as the orifices 29 will permit. It is obvious that my device may be used in the same manner for copying from a book but as the operation is so simple it will not be further described.

Having thus described my invention, what I claim and desire to secure by Letters Patent of the United States is:

1. A copy holder comprising a base, an upstanding frame thereon, a shaft journaled in the lower end of the frame, spaced pulleys journaled in the upper end of the frame, a pair of cords passing up the front of the frame over the pulleys and downwardly in back of the frame and having their ends secured to the shaft, a spring wire support disposed in rear of the frame and being of U-form with its arms bent outwardly in opposite directions to provide spaced shaft portions, and then downwardly in parallelism for securement to the base, a pulley journaled on each shaft portion for yieldably engaging the cords to hold them taut, said pulleys being held spaced apart by the interposed base of the U-wire support, a line-guide supported in front of the frame by the cords, and means for rotating the shaft.

2. In a copy holder, a frame, a tubular lever pivoted at its rear end to the frame

and having each of its ends open, a shaft having a ratchet located below the lever at the front end of the latter, a line-guide, cords connected to the line-guide and to the shaft, a lug depending from the front end of the lever, a vertical pawl pivoted at its upper end to the lug and having its lower end weighted and engaged with the teeth of the ratchet, an operating rod slidable in said tubular lever and extending through each of the open ends thereof, and a spring for returning the lever to up position following depression thereof.

3. In a copy holder, a base, an upright frame thereon, a brace for the frame extending upwardly from the base in rear of the frame, a lever pivoted to the brace for vertical swinging and extending forwardly alongside the frame, means slidably connecting the forward end of the lever to the frame to be guided thereby, a wire spring secured to the base adjacent the brace and extending upwardly and secured to said means, a line guide, means for moving the same including a toothed element, and a pawl carried by the forward end of the lever for engaging the toothed element to operate the line guide.

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OLE T. TUNGLAND.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."