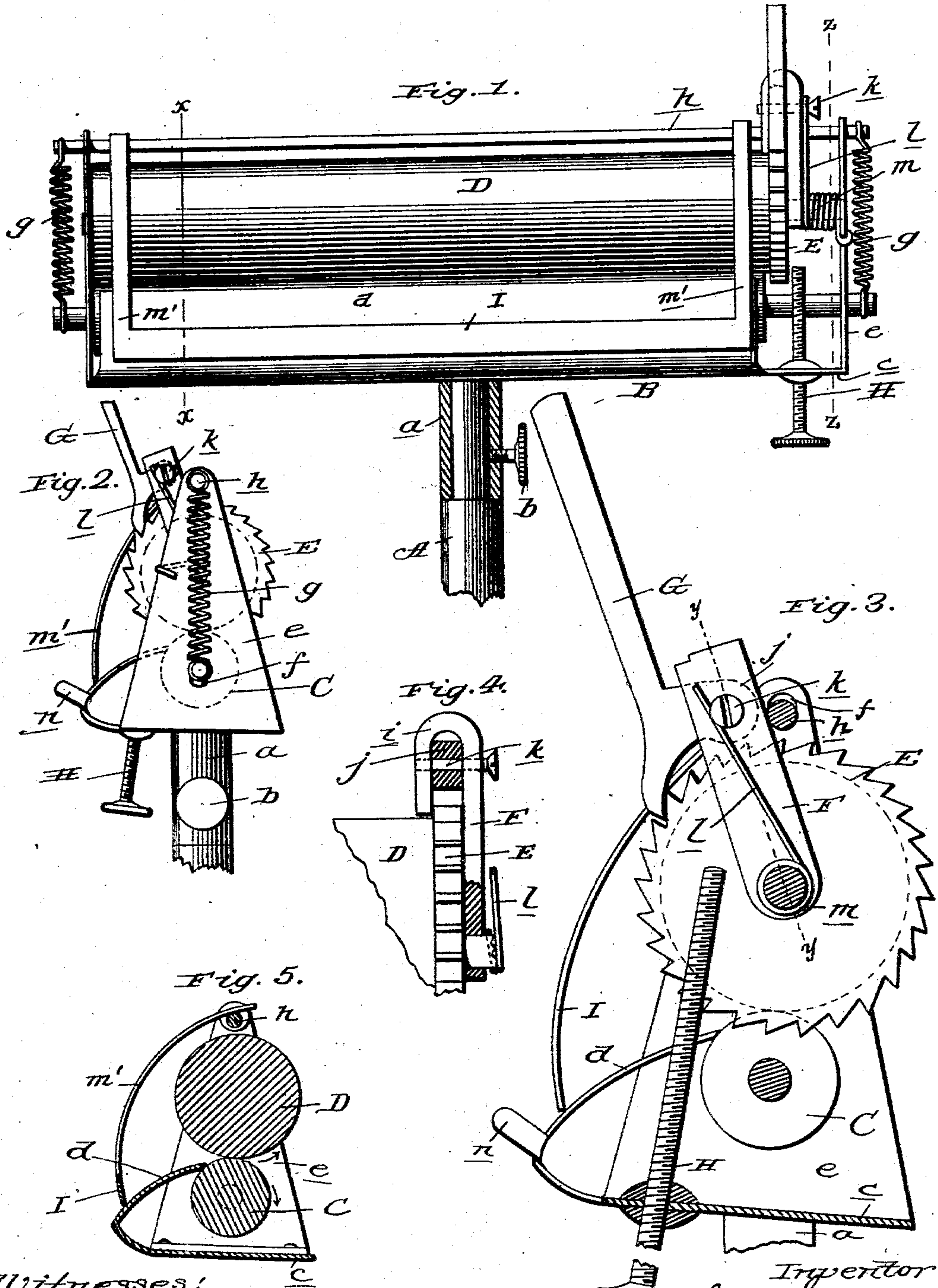


(No Model.)

L. HIRT.
COPY HOLDER.

No. 511,145.

Patented Dec. 19, 1893.



Witnesses:
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UNITED STATES PATENT OFFICE.

LOUIS HIRT, OF BELLEVILLE, ILLINOIS.

COPY-HOLDER.

SPECIFICATION forming part of Letters Patent No. 511,145, dated December 19, 1893.

Application filed August 2, 1893. Serial No. 482,195. (No model.)

To all whom it may concern:

Be it known that I, LOUIS HIRT, a citizen of the United States, residing at Belleville, in the county of St. Clair and State of Illinois, have
5 invented certain new and useful Improvements in Copy-Holders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to
10 make and use the same.

My invention relates to improvements in copy holders; and it has for its general object to provide a copy holder of a cheap, simple, and efficient construction, and one through
15 the medium of which the paper or manuscript may be readily moved so as to enable the operator to follow or trace the lines thereof.

Other objects and advantages of the invention will be fully understood from the following description and claims when taken in connection with the annexed drawings, in which—

Figure 1, is a front elevation of my improved copy holder with parts in section. Fig. 2, is an end elevation of the same. Fig.
25 3, is an enlarged transverse section taken in the plane indicated by the line *z, z*, of Fig. 1. Fig. 4, is a detail section taken in the plane indicated by the line *y, y*, of Fig. 3, and Fig.
30 5, is a transverse section taken in the plane indicated by the line *x, x*, of Fig. 1.

Referring by letter to said drawings:—A, indicates the supporting pillar or post of my improved holder, which may rise from any
35 suitable base or pedestal; and B, indicates the main frame from which depends a sleeve *a*, adapted to receive the reduced upper end of the pillar or post, which sleeve *a*, carries a set screw as *b*, whereby it will be perceived that the frame may be turned and adjustably
40 fixed upon the post in a position convenient to the operator.

The main frame B, is preferably formed from sheet metal and it comprises the base plate *c*, the curved guide or flange *d*, extending
45 upwardly and rearwardly from the forward edge of the plate *c*, and the standards *e*, which rise from the ends of the plate *c*, as shown. These standards *e*, are provided with elongated apertures *f*, to receive the trunnions or shaft of the friction or pressure
50 roller C, and they are also provided with journal apertures to receive the trunnions or

shaft of the manipulating or paper moving roller D, against which the friction roller is yieldingly held by the coiled springs *g*.
55 These springs are connected to a bar as *h*, supported in the frame B, and to the shaft of the roller C, and they cause said roller to press the paper or manuscript against the roller D, so as to enable said roller to move
60 it through the machine.

Fixedly mounted upon the roller D, or the shaft thereof is a ratchet wheel E, and loosely mounted upon the said shaft is an arm F,
65 which carries a pawl lever G, which is designed to engage and rotate the ratchet wheel E, and consequently the roller D. The swinging arm F, has a loop *i*, at its outer end (see Fig. 4), and in this loop the branch *j*, of the pawl lever is fulcrumed on a pin or stud *k*, as
70 shown. This pin or stud extends laterally from the arm F, and it is designed to be engaged by the branch *l*, of the coiled spring *m*, which spring serves to return the arm F, to its normal position against the bar *h*, after
75 it has been depressed to rotate the roller D.

In order to regulate the stroke of the arm F, and consequently the extent of each movement of the paper or manuscript, I have provided the adjusting screw H. This screw H,
80 takes through a suitable bearing in the base plate of the frame B, as shown and it may be readily turned up or down according to the length of movement that is desired.

I, indicates what I term the line follower or
85 tracer of my improved holder. This follower or tracer is of a general bail shape and it has its branches *m'*, curved as shown and pivotally connected to the bar *h*, whereby it will be seen that it may be readily raised to per-
90 mit of an interposition of manuscript between the rollers C, D, and that it will not interfere with the free movement of the manuscript.

In the practical operation of my invention,
95 the tracer I, is raised and the manuscript to be read or copied is passed over the flange *d*, and between the rollers C, D; the guide lug *n*, of the flange *d*, serving to keep the paper straight. The roller E, is then rotated through
100 the medium of the lever G, until the first line of the copy appears immediately below the tracer I, when the copying or reading may commence; the roller D, being turned as each

line is finished so as to bring the next line beneath the tracer.

It will be readily perceived from the foregoing description and the drawings, that my improved holder, is equally adapted for use upon a typewriter, a compositor's case, or a reading desk or table; it being adapted to be mounted on many supports other than the pillar illustrated. It will also be seen that the holder is very simple and efficient and that it may be produced at a slight cost which is a desideratum.

Having described my invention, what I claim is—

1. In a paper holder, the combination with a main frame comprising a base plate, standards rising from the base plate, and a curved flange extending upwardly and rearwardly from the forward edge of the plate and having a guide *n*, and a bar *h*, mounted in the standards of the frame; of a paper moving roller journaled in the standards of the frame, a friction roller yieldingly held against the paper moving roller, and a bail-shaped line tracer or follower loosely connected to the bar *h*, and adapted to rest upon the paper as it passes over the curved flange, substantially as specified.

2. In a copy holder, the combination with a main frame, the bar *h*, supported therein, a paper moving roller journaled in the main frame and carrying a ratchet wheel, a friction roller yieldingly held against the paper moving roller, an arm pivotally mounted on the

shaft of the paper moving roller, a spring adapted to normally hold said arm against the bar *h*, and a pawl lever carried by the arm and adapted to engage the ratchet wheel of the paper moving roller; of a regulating screw taking through the frame and adapted to limit the stroke or movement of the pivoted arm, substantially as and for the purpose set forth.

3. The combination with a paper moving roller arranged in a suitable frame and having a ratchet wheel at one end; of a spring-pressed arm, a pawl carried by said arm and adapted to engage the ratchet wheel and a screw having a suitable bearing and adapted to limit the movement of said arm in one direction, substantially as specified.

4. The combination with a paper moving roller journaled in a suitable frame; of a yieldingly sustained pressure roller, a ratchet wheel secured to one end of the paper moving roller, an arm arranged on the journal of said paper moving roller, a pawl carried by said arm and adapted to engage the teeth of the ratchet, a stop for the movement of said arm and ratchet in one direction and a screw or the like to adjustably stop said arm in an opposite direction, substantially as specified.

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

LOUIS HIRT.

Witnesses:

JAS. A. FARMER,
AUGUST BARTHEL,