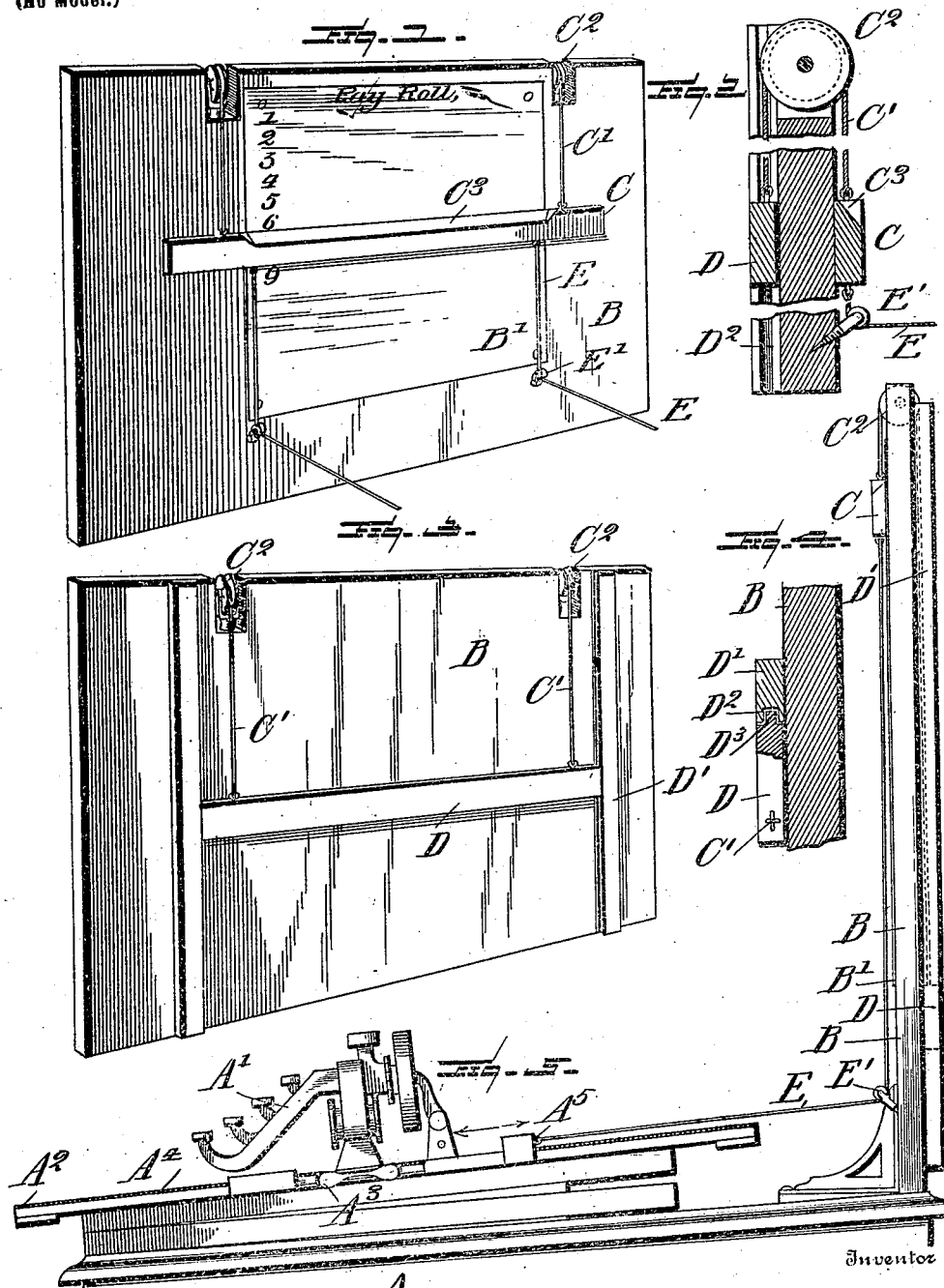


No. 648,810.

Patented May 1, 1900.

J. H. STORMER.
COPY HOLDER AND GUIDE.
(Application filed Jan. 15, 1900.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN H. STORMER, OF PITTSBURG, PENNSYLVANIA.

COPY HOLDER AND GUIDE.

SPECIFICATION forming part of Letters Patent No. 648,810, dated May 1, 1900.

Application filed January 15, 1900. Serial No. 1,555. (No model.)

To all whom it may concern:

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

10 This invention relates to a copy holder and guide, and particularly to a guide or marker adapted to be automatically operated in the movement of a type-writing machine from line to line, thereby maintaining the guide in
15 position at a line corresponding to the line upon which the type-writer is operating.

The invention has for one of its objects to simplify and improve the construction of the several parts, whereby the guide or marker
20 will respond to all the movements of the type-writing machine over the paper beneath the same.

It has for its particular object to facilitate and expedite the copying of schedules or rolls
25 or other tabulated papers, in which it is necessary that the operator have a positive guide which can be advanced line by line in the movement of the machine.

A further object of the invention is to provide mechanism whereby the guides are returned to any line or place upon the copy if
30 the machine be moved backward over the matter already written.

Other objects and advantages of the invention will hereinafter appear in the following
35 description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective
40 of the copy-holding board with the guide applied thereto. Fig. 2 is a vertical section, with parts broken away, through the board. Fig. 3 is a perspective of the rear of the board shown in Fig. 1, illustrating the counterbal-
45 ance mechanism. Fig. 4 is a detail vertical section through the guides for the counterbalance, and Fig. 5 is a side elevation of the complete holder and guide operatively connected to a type-writing machine.

50 Like letters of reference indicate like parts

throughout the several figures of the drawings.

The letter A designates a suitable support, which may be a desk or table adapted to carry any preferred form or construction of type-
55 writing machine adapted to move from line to line over the paper to be written. For illustration, a type-writer, as indicated at A', is mounted to be moved upon a base or foundation A² and is held in its position by means
60 of a line-latch A³, adapted to engage suitable ratchet-teeth A⁴, carried by the base. By means of this latch the carriage is fed downward line by line as the matter is written upon the paper held upon the base A². At the rear
65 of the support A and in front of the operator using the machine A' is a suitable copy-holding board B, supported by any desired means in a vertical position. This board is adapted to have applied and secured thereto by any
70 preferred means the copy B' to be followed by the operator.

The several parts hereinbefore described may be of any desired construction, as they
75 constitute the cooperating members with which the improved holder and guide work.

The copy guide or marker C is supported by means of cords or flexible connections C', extending over a suitable bearing at the top of the board B—for instance, a pulley C²—
80 and connected at the rear of the board with a counterbalance D, which is of slightly-greater weight than the marker, so as to elevate the marker if no pressure or tension be applied thereto. This counterbalance is guided in its
85 reciprocating movements by means of guides D', carried upon the board B and provided with mortises D², into which tenons D³ upon the end of the counterbalance D fit. The guide or
90 marker is connected with the type-writing machine by means of cords or flexible connections E, extending downward from the guide, and hence over some suitable support—for instance, a pulley E'—to a portion of the type-
95 writing machine, as shown at A⁵. By this means it will be seen that the marker is free at all times to move in the advance of the type-writing machine over the paper written upon, and by properly locating the copy B' in such position that the marker stands at
100

the first line thereof when the first line is written by the type-writer the succeeding lines will agree and the line of copy will be revealed to the operator as he feeds the machine for the writing of a subsequent line. The marker C is provided with a beveled or thin edge C³, which facilitates the reading of the line directly above the same. If at any time it is desired to return the machine to a line already written, the counterbalance at once moves the guide C forward to such line as the tension is relieved upon the cord E by the movement of the type-writing machine.

This invention has been found of particular importance in copying insurance schedules or papers, such as pay-rolls, in which a number of sheets may be secured upon the board B', and the guide or marker follows each line as the duplicate copy is written upon the paper supported beneath the type-writing machine. This prevents the duplicating or skipping of any line, as the automatic movement of the guide shows the operator the line last written, and the attachment to a type-writer does not in any way affect the operation of the machine.

It will be understood that the type-writer hereinbefore mentioned is of the class commonly known as the "book" type-writers, in which the type-bars and writing mechanism move over the sheet to be printed and are fed from line to line by means of devices connecting with the support upon which the machine is mounted.

Having described my invention, what I claim is—

1. The combination with a type-writing machine movably mounted upon a support, of a copy-board supported adjacent thereto, a guide movably supported on said board, flexible means positively connecting said guide and type-writing machine for the movement

of the guide in one direction, and means for effecting the movement of the guide in an opposite direction; substantially as specified. 45

2. The combination with a type-writing machine movably mounted upon a support, of a copy-board supported adjacent thereto, a guide movably supported on said board, flexible means positively connecting said guide and type-writing machine for the movement of the guide in one direction, a sliding counterbalance, and flexible connections between the same and said guide; substantially as specified. 50

3. The combination with a movable writing member, of a copy-board supported adjacent thereto, a guide or marker movable over said board, a flexible connection extending from said guide over a bearing at the base of the board to said writing member, guiding-strips upon the back of said board, a counterbalance slidably mounted between said strips, and flexible connections extending from the upper portion of said guide over bearings at the top of the board to said counterbalance; substantially as specified. 55

4. The combination with a type-writing machine mounted upon a support and adapted for step-by-step movement in writing successive lines, of a copy-board, a counterbalanced guide or marker mounted thereon, and a positive connection between said marker and type-writing machine, whereby a line-by-line movement of the type-writer produces a similar simultaneous movement of the marker; substantially as specified. 60 65 70 75

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

JOHN H. STORMER.

Witnesses:

J. A. TENHILL,

W. E. GEOGHEGAN.