

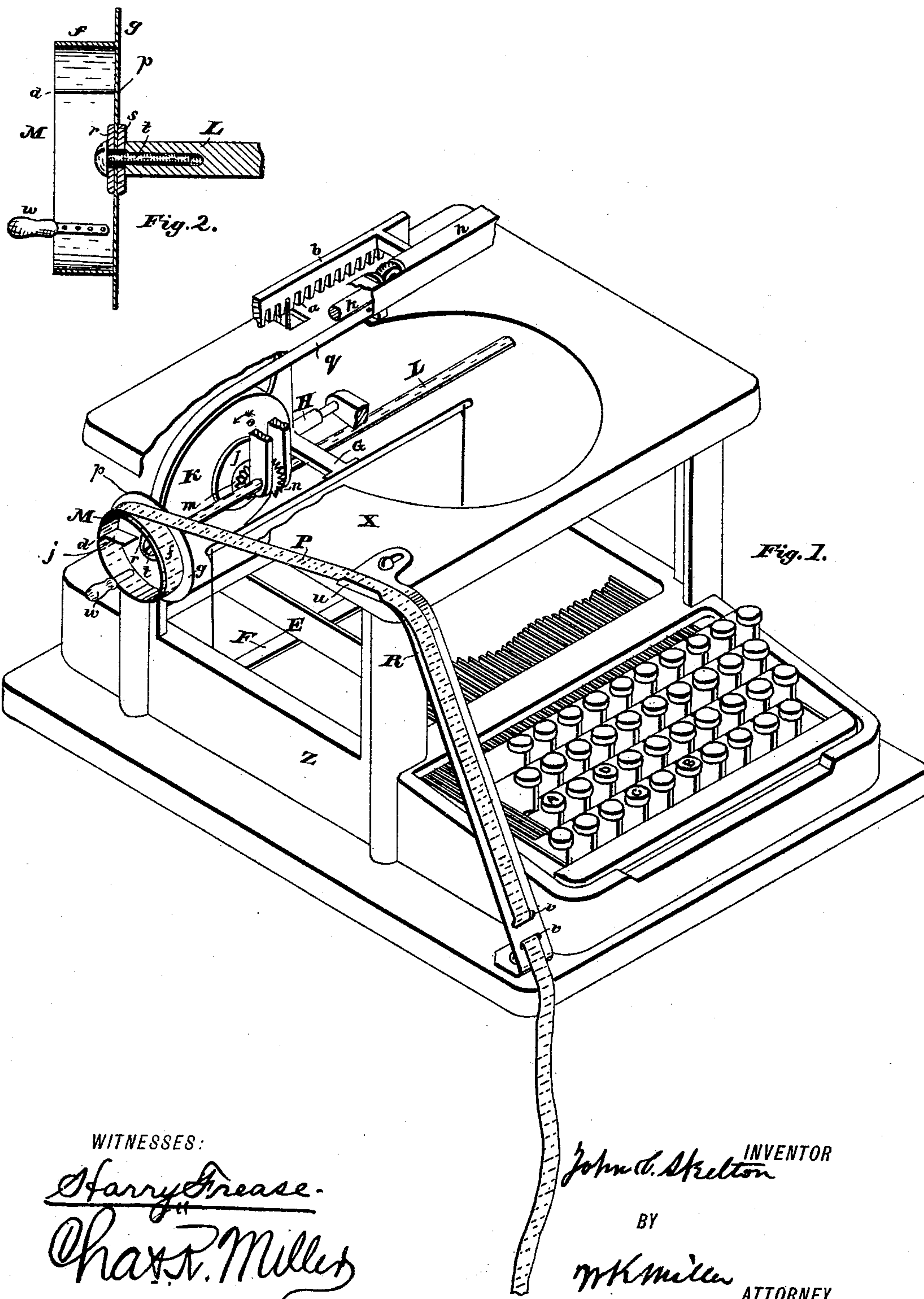
(No Model.)

J. C. SKELTON.

COPY HOLDER FOR TYPE WRITING MACHINES.

No. 372,495.

Patented Nov. 1, 1887.



WITNESSES:

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COPY-HOLDER FOR TYPE-WRITING MACHINES.

SPECIFICATION forming part of Letters Patent No. 372,495, dated November 1, 1887.

Application filed January 15, 1887. Serial No. 224,419. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. SKELTON, a citizen of the United States, and a resident of Canton, county of Stark, State of Ohio, have invented a new and useful Improvement in Copy-Holders for Type-Writing Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

My invention relates to an improvement in copy-holders for type writing machines, the object of which is to hold the copy before the eye of the operator and to roll it up after passing the point of vision; and it consists of the hereinafter-described parts and combination of parts, as set forth in the claims.

Figure 1 is an isometrical view of a fragment of one form of type-writing machines, showing my improvement. Fig. 2 is a fragment of copy-spool, showing the tension-pads and manner of connecting spool to actuating-shaft.

As my invention is applicable to many of the well-known forms of type-writing machines now in use, I will proceed to describe my improvements, referring only to the type-writing machine or parts thereof as in combination with my improvements or conjunctional thereto.

Similar letters of reference indicate corresponding parts in all of the figures in the drawings.

Letter Z represents the frame of a type-writing machine; X, the top, a part of which is removed to show the parts to which I wish to call attention; A, B, C, and D, the letter-keys, and E a letter-lifting lever; F, a link connecting the key-lever E with the escapement-lever G, which in this case is in the form of a bell-crank supported on a vibratory support, H. The free end of the lever G may be divided in the usual way of making this form of an escapement, and may be vibrated in the teeth *a* of the rack *b*, for the purpose hereinafter described. Said rack is connected to the paper-carriage, a fragment of which is shown by letter *h*, and is supported on the rod *k* in the usual way.

K represents a wheel loosely mounted on a supporting pin or shaft. (Not shown in the drawings.) Wheel K has a clutch connected

with flange *l*, to which is connected a toothed wheel, *m*, which engages with wheel *n*, mounted on shaft L, which has a geared connection with the ink-ribbon spools. (Not shown, and only referred to as this shaft L actuates the ribbon-carrying spool of many of the well-known type-writing machines.) On the reverse side of wheel K there is provided an actuating-spring, the energy of which is exerted in one direction, as shown by the direction of the arrow O. A strap, *q*, about the wheel K, one end of which is connected to the carriage *h*, as shown, completes a chain of mechanism by which the shaft L may be rotated.

Spool M is mounted on the end of shaft L, supported between tension washers or pads *r* and *s*, and a requisite amount of friction applied to the head *p* of the spool M by the screw *r*, which is threaded and adapted to the threaded aperture in the end of the shaft L.

Spool M may be formed of any suitable material, preferably light sheet metal having a head, *p*, rim *f*, and flange *g*. In the rim *f* there may be provided a slot, *d*, or other means to secure the end *j* of copy P. Said spool is also provided with a handle, *w*, hereinafter explained.

A copy-holder, R, is provided, substantially as shown in Fig. 1, and may have an adjustable connection with the top X of the type-writing machine, and also to the bottom, or may be connected to the top only and projected downwardly and provided with flanges *u* and perforations *v* as guides and tensions to hold the copy in proper positions.

The rim *f* of spool M and the holder R may be of such width as may be required, adapting them to the width of copy.

The operation is as follows: If the letter "d" be required, the key D may be struck, which operation will bring the lever E down upon the cross-bar of the link-connection F, by which the link is drawn down, vibrating the escapement-lever G, thus allowing the spring-actuated wheel K to move in the direction of the arrow O, by which the gear-wheels *m* and *n* are operated and a rotary movement imparted to the shaft L, by which the spool M may be rotated to wind up the copy, and the spools may be varied in diameter to adapt the speed

of winding to the convenience of the operator, as the rotary movement of spool is controlled by the movement of the letter-keys; but in the event of the movement of the spool, as caused
 5 by the movement of the letter-keys being either too fast or too slow, the operator may, by the use of the handle *w*, move the spool forward or back at such times, so that by the constant rotary motion of the shaft L, produced
 10 by operating the letter-keys, as hereinbefore stated, and the occasional advancing or retarding the movement of the spool by slipping it on the shaft between the tension-pads, the movement of the copy may be so regulated as
 15 to move the unwritten word to a point of vision on the copy-holder R most desired by the operator.

Having thus fully described the object and nature of my invention, what I claim, and desire to obtain by Letters Patent, is—

1. The combination, in a type-writing machine, of a copy-spool, M, copy-holder R, shaft L, and means, substantially as herein described, for rotating said shaft and spool, for the purpose set forth.
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2. In a type-writing machine, a copy-spool having flange *g*, slot *d*, and handle *w*, substantially as described, and for the purpose set forth.

3. The combination, in a type-writing machine, of a copy-winding spool, M, copy-holder R, provided with a guide-flange, as *u*, and shaft L, substantially as described, and for the purpose set forth. 30

4. The combination, in a type-writing machine, of the copy-spool M and copy-holder having perforations *v*, substantially as described and set forth, and for the purpose specified. 35

5. In a type-writing machine, the combination, with a copy-carrying spool and a spring-actuated wheel under the control of a letter-operating key, of a connection between the spring-actuated wheel and the copy-carrying spool, whereby the latter is regulated in its movements by the movements of the former, substantially as set forth. 40 45

6. The combination, in a type-writing machine, of the shaft L, spool M, and tension-pads *r* and *s*, and screw *t*, substantially as described, and for the purpose set forth. 50

In testimony whereof I have hereunto set my hand this 28th day of December, A. D. 1886.

JOHN C. SKELTON.

Witnesses:

CHAS. R. MILLER,
 W. K. MILLER.