

No. 865,892.

PATENTED SEPT. 10, 1907.

E. B. HESS.
TYPE WRITING MACHINE.
APPLICATION FILED APR. 22, 1907.

Fig. 1.

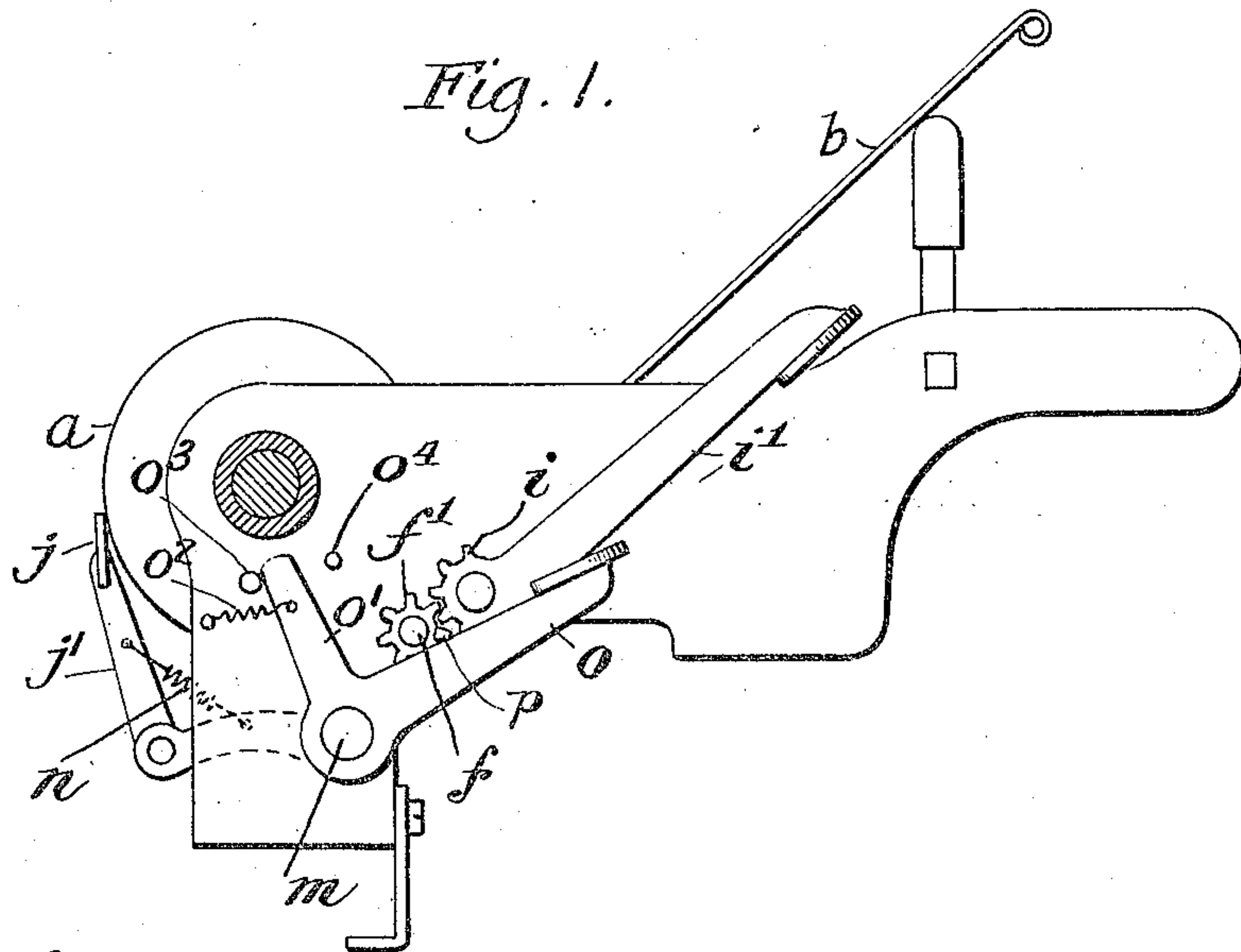


Fig. 4.

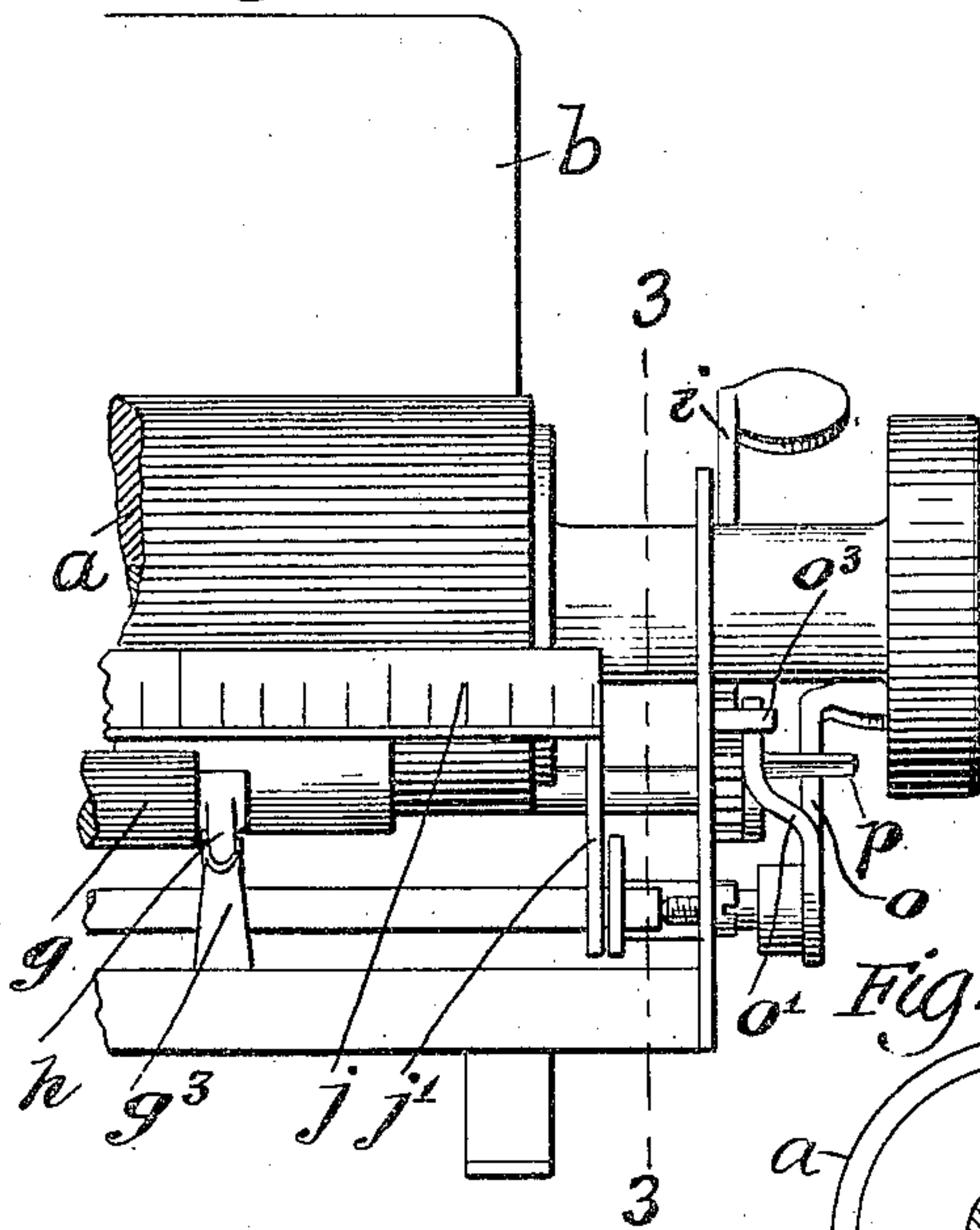


Fig. 2.

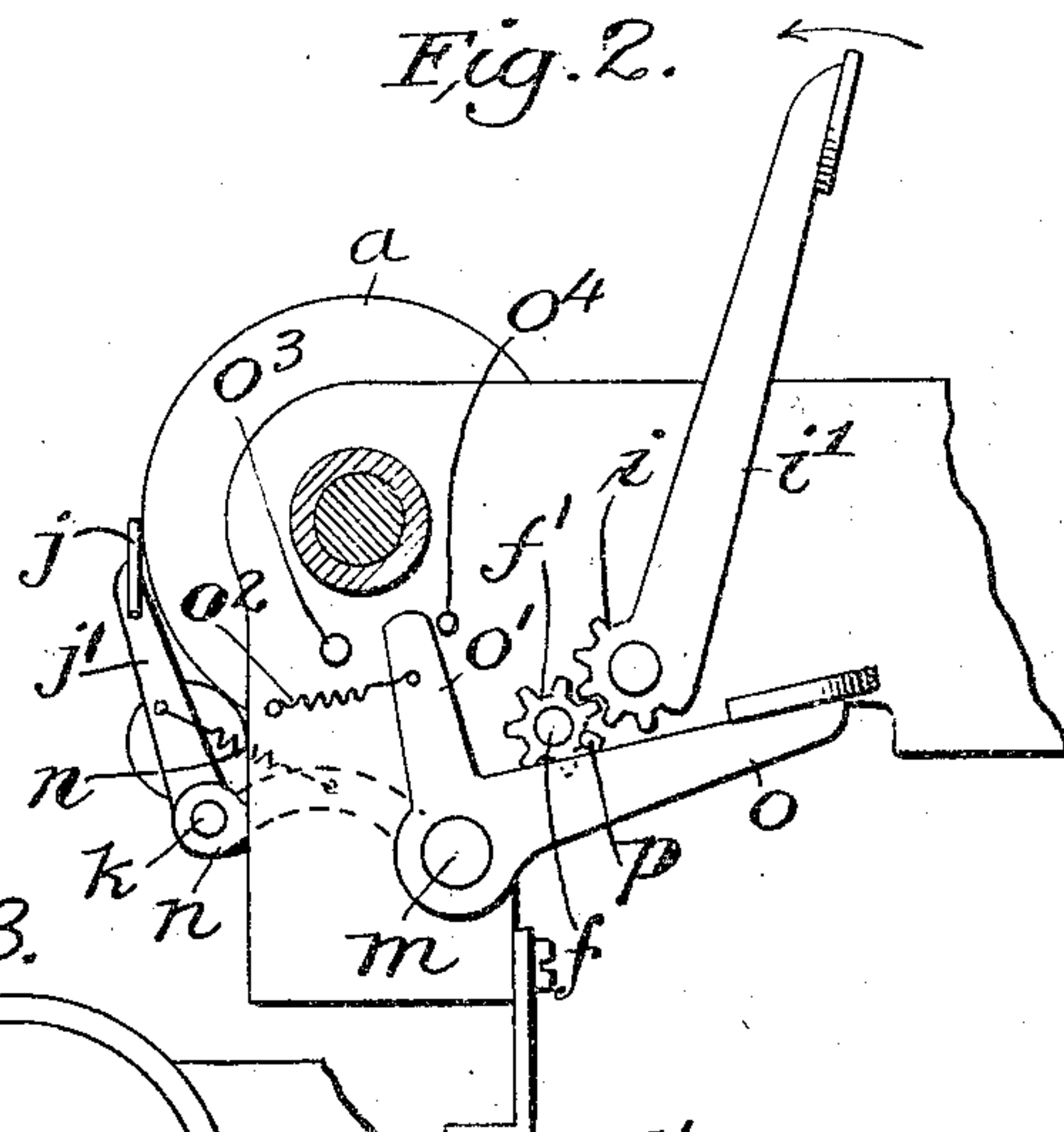
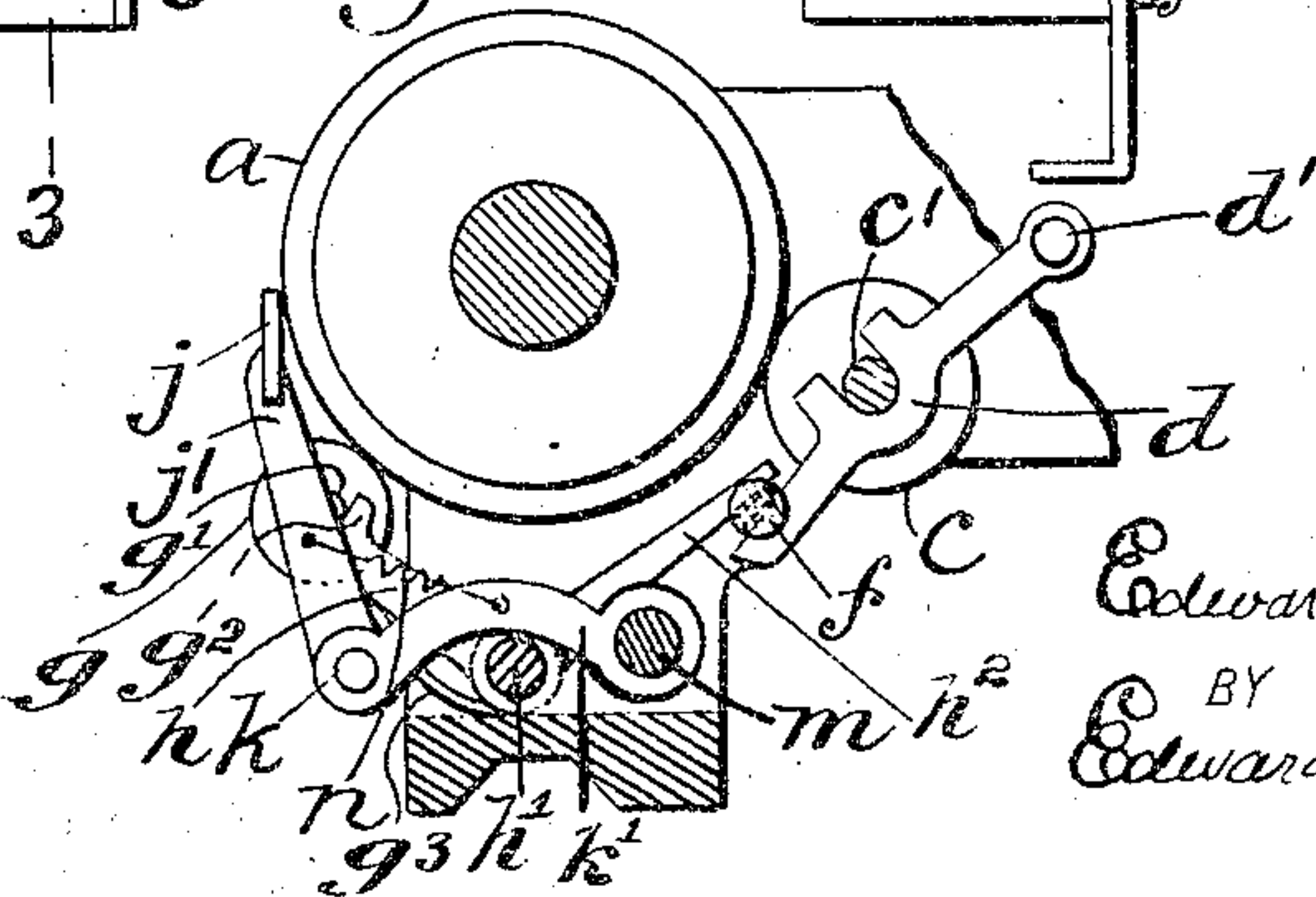


Fig. 3.



WITNESSES
James J. Duhamel,
L. J. Browning.

INVENTOR
Edward B. Hess
BY
Edward C. Quirk
ATTORNEY

UNITED STATES PATENT OFFICE.

EDWARD B. HESS, OF NEW YORK, N. Y., ASSIGNOR TO ROYAL TYPEWRITER COMPANY, OF HOBOKEN, NEW JERSEY, A CORPORATION OF NEW JERSEY.

TYPE-WRITING MACHINE.

No. 865,892.

Specification of Letters Patent.

Patented Sept. 10, 1907.

Application filed April 22, 1907. Serial No. 369,491.

To all whom it may concern:

Be it known that I, EDWARD B. HESS, a citizen of the United States, residing in the borough of Brooklyn, city and State of New York, have invented certain

Improvements in Writing-Machines, of which the following is a specification.

This invention relates to paper feed and alining or scale-bar devices. Its object is to provide an alining scale normally below the line of print—say, a full letter space—and adapted to be moved independently at will to the line of print combined with paper feed rolls so arranged that when the feed rolls are thrown out of engagement with the platen, the alining or scale-bar is automatically moved to the printing line and returned to normal position when the feed rolls are again in operative relation to the platen.

In the accompanying drawings: Figure 1 is a detail elevation with the platen shaft in section; Fig. 2, a similar view showing the parts in different position; Fig. 3, a section on the line 3, 3, of Fig. 4; Fig. 4, a detail front elevation showing the right hand end of the platen.

a is the platen; *b* an ordinary paper table; *c* rear feed rolls mounted on a shaft *c'* turning in open bearings in arms or levers *d* pivoted at *d'* and the ends of which are urged toward the platen by a spring, not shown.

g are front feed rolls mounted on a shaft *g'* turning in open bearings in the front ends of elbow levers *h* rocking about a shaft *h'* and the rear ends *h²* of which are also urged away from the platen and the rolls toward the platen by springs *g³* applied under the front ends of the elbow levers.

A rock shaft *f* has on one side transverse notches in which the ends of the levers *d* lie and, on the opposite side, other transverse notches in which lie the rear ends *h²* of the elbow levers. In this condition of the parts the pressure or feed rolls bear upon, or are in operative relation to the platen. When the shaft *f* is rocked and the ends of the roller carrying levers respectively ride upon the circumference of the shaft, the rolls will be thrown out of engagement with the platen and, by reason of the friction between the ends of the levers and the shaft, will so remain. The rocking of shaft *f* may be conveniently effected by means of a pinion *f'* engaged by a circular rack *i* on the hub of a rocking hand lever *i*. The alining or scale-bar *j* arranged across the front of the platen is carried at each end in arms *j'* pivoted at *k* to forwardly extending arms *k'* fixed to a rock shaft *m*. Coiled springs *n* connecting the arms *m'* and *k'* serve to draw the scale bar *j* against the face of the platen. Applied to the rock shaft *m* is a hand lever *o* from the hub of which extends a projection *o'* to which is attached a spring *o²* that normally draws it against stop *o³* and holds the scale-bar in its normal

low position one letter space below the line of print. To move the scale bar to the line of print, the lever *o* may be depressed by hand as in Fig. 2 until arrested by a second stop *o⁴*. This construction of feed or pressure rolls and alining or scale-bar is disclosed in my application, No. 288,968, filed November 24, 1905 and need not therefore be more elaborately illustrated.

Projecting from the side face of one of the teeth of the pinion *f'* is a lug *p* which, when the parts are in normal position with the feed rolls in engagement with the platen and the scale-bar depressed, lies against the upper side of the scale bar operating lever *o*. When, therefore, the feed roll operating lever *i* is moved in the direction of the arrow to move the feed or pressure rolls away from the platen and the pinion *f'* and shaft *f* are rotated, the lug *p* carries down the lever *o* and raises the scale bar to the printing line. All the parts will remain in the position described by reason of the friction of the levers carrying the pressure rolls upon the circumference of the rocking bar *f* thus leaving the paper in the machine free for ready adjustment. Experience has shown that this form of the invention is practical and efficient, but, of course, the invention may be embodied in other ways that may be readily devised by those skilled in such matters.

I claim:

1. A rotatable platen and a scale bar normally below the line of print, means whereby it may at will be independently raised to the line of print, pressure rolls cooperating with the platen, means for moving them out of operative relation to the platen and means whereby when the pressure rolls are so moved, the scale bar is moved from normal position to the line of print.

2. A rotatable platen and a scale bar normally below the line of print, means whereby it may at will be independently raised to the line of print, pressure rolls cooperating with the platen, means for moving them out of operative relation to the platen, means whereby when the pressure rolls are so moved, the scale bar is moved from normal position to the line of print and means for locking the pressure rolls in inoperative position.

3. A rotatable platen, a scale bar normally below the line of print, spring pressed rocking arms in which the scale bar is carried, a lever acting to move the scale bar to the line of print, pressure rolls, a lever for throwing them out of engagement and an operative connection by which when the rolls are thrown out of engagement with the platen the scale bar is moved to the line of print.

4. A platen, a scale-bar normally below the line of print, pressure rolls, means for moving the scale bar to the line of print and simultaneously moving the pressure rolls away from the platen, and means for moving the scale bar to the line of print independently of movement of the pressure rolls.

In testimony whereof, I have hereunto subscribed my name.

EDWARD B. HESS.

Witnesses:

JOHN M. LEE,

L. F. BROWNING.