

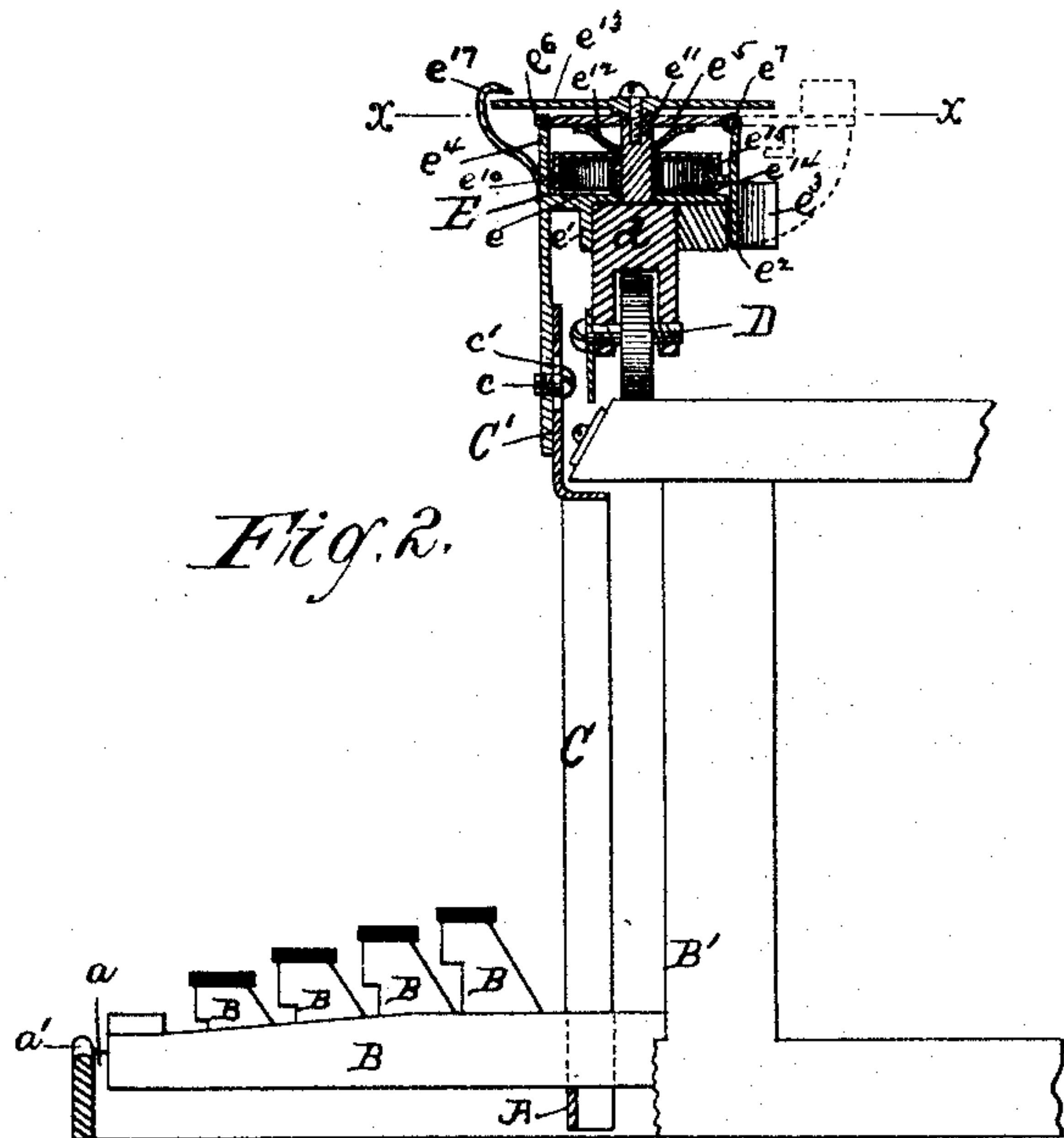
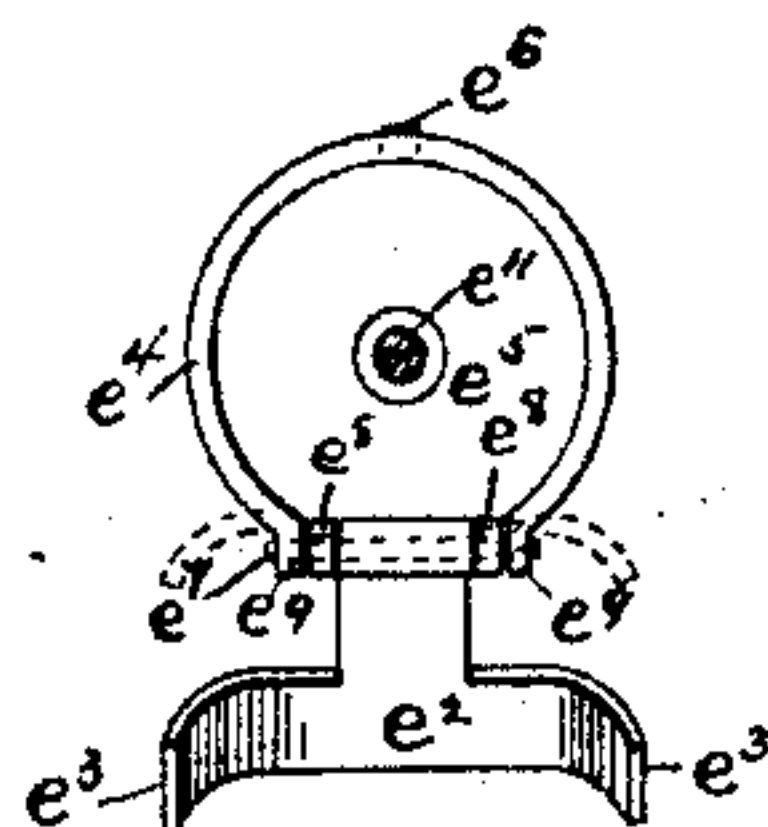
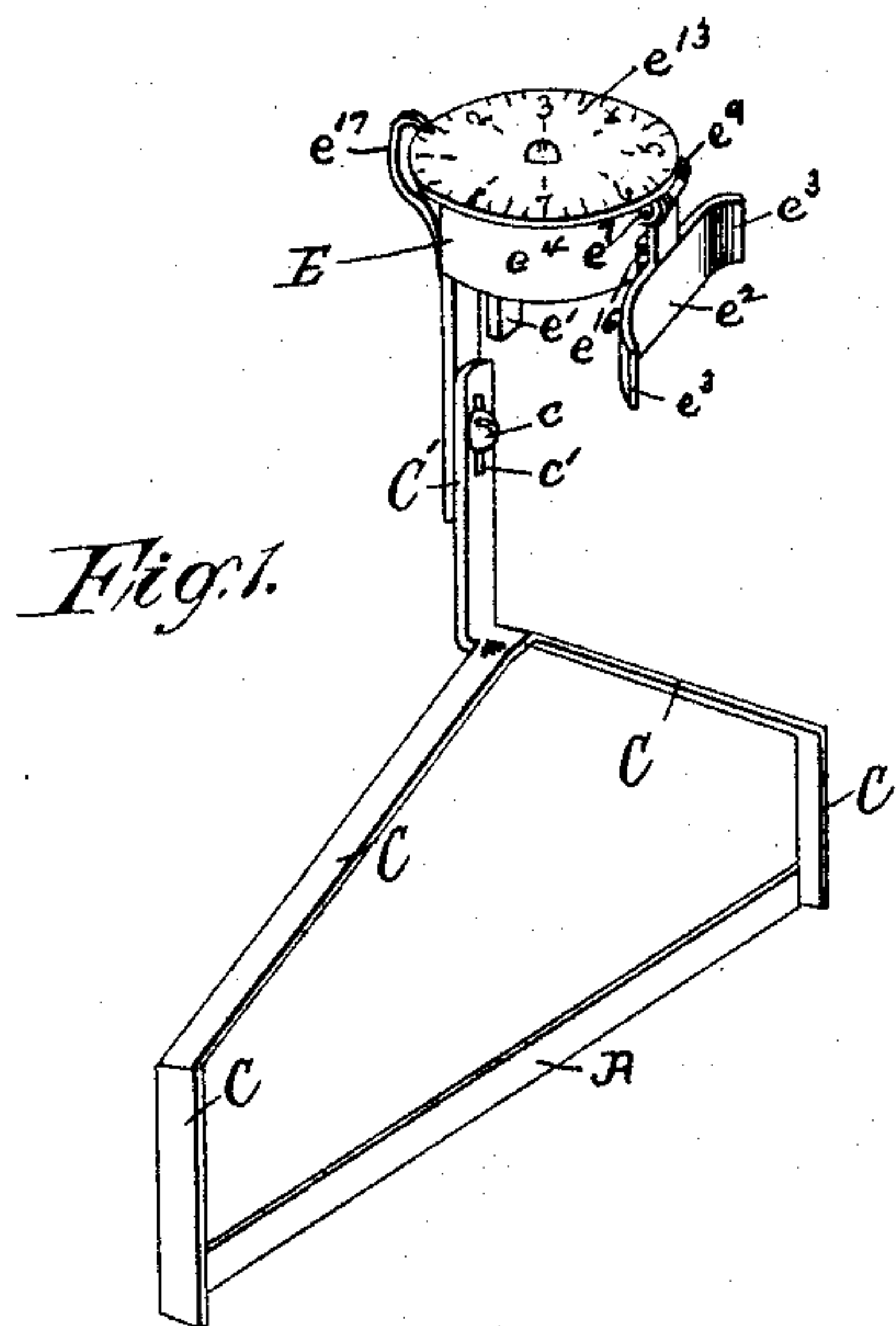
(No Model.)

J. M. BADOLLET.

SAFETY LOCKING DEVICE FOR TYPE WRITING MACHINES.

No. 428,444.

Patented May 20, 1890.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN M. BADOLLET, OF NEW YORK, ASSIGNOR, BY MESNE ASSIGNMENTS,
TO ELIZA B. SMITH, OF GARDEN CITY, NEW YORK.

SAFETY LOCKING DEVICE FOR TYPE-WRITING MACHINES.

SPECIFICATION forming part of Letters Patent No. 428,444, dated May 20, 1890.

Application filed April 20, 1888. Renewed October 21, 1889. Serial No. 327,623. (No model.)

To all whom it may concern:

Be it known that I, JOHN M. BADOLLET, of the city, county, and State of New York, a citizen of the United States, have invented a
5 Safety Locking Device for Type-Writing Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

10 My invention relates to a device for holding rigidly in position and preventing the movement of the levers and paper-carriage of a type-writing machine, and which may be readily and quickly placed upon or attached
15 to and detached from the machine; and my invention consists in a bar adapted to engage the series or bank of key-levers of the type-writer and sustained and connected by suitable rods or a frame to a clamp adapted to fit
20 upon, engage, and be detachably locked or attached to the paper-carriage on the machine, all as hereinafter set forth, and for the purpose hereinafter specified.

Figure 1 is an elevation in perspective of
25 the device containing my invention. Fig. 2 is a partial vertical section of the same, showing the device locked upon the levers and carriage of a type-writing machine; and Fig. 3 is a sectional plan on the line $x x$, Fig. 2.

30 A is a bar of such dimensions as adapt it to extend laterally across and underneath the series or bank of key-levers of a type-writing machine in substantially a horizontal position, as shown in Fig. 2, the key-levers therein
35 being indicated at B. The bar is desirably so formed or shaped that it will readily pass through the space a between the front ends of said levers and the front a' of the machine-frame, and thence be passed along under the
40 levers, so that it will approach the line of the vertical portion B' of the machine-frame, as shown in Fig. 2.

45 C C represent rods or a frame, preferably of metal or other similar rigid material. These rods or frame serve to sustain the bar A, preferably by fixed attachment thereto at its ends, as shown, and a rod or portion of the frame, as shown at C', extends upward in the direction toward and to the paper-carriage D. For
50 the purpose of adjusting the length of the rod

or frame C C' to the varying heights of machines the portion C' may be in two parts joined flatwise by means of a screw-bolt c , working in a longitudinal slot c' in one of said parts, as shown.

55 E is a clamp carried by the rod or frame C' at its upper end and adapted to fit upon and detachably engage the paper-carriage D. I find it preferable to construct the clamp E with the plate e , which may be substantially
60 circular in outline and projecting horizontally from the rod or frame C', and adapted to fit and rest upon the upper face of the forward side or beam d of the paper-carriage, and with the lug e' projecting downwardly from
65 the under face of the said plate e and adapted to rest snugly against the forward face of said beam d when the plate e is placed upon the upper face thereof, as shown in Fig. 2.

I provide the hinged hasp e^2 , adapted to
70 swing downward to a vertical position, and thus engage the rearward face or side of the carriage-beam d , and the hasp is desirably made conformable to the said rearward face of said beam, and for this purpose may be
75 given the angular or inclined wings e^3 , which, fitting into a corresponding recess on the said face of said beam, will operate, when the carriage is inclosed between the lug e' and the
80 hasp e^2 of the clamp E, to prevent the carriage from moving longitudinally on its ways or track on the machine.

The hasp E is provided with means for detachably locking it in the described position upon or engagement with the beam d , and I
85 find the devices shown in the drawings preferable for this purpose, namely: The plate e has an upwardly-projecting annular flange e^4 , constituting an inclosing-wall for the locking device, and a lid-piece e^5 is provided, which
90 may be conveniently held in place by means of a small lug e^6 on its rim slipped into a suitable slot in the flange e^4 and the hinge-pin e^7 of the hasp e^2 , which passes through
95 lugs e^8 on the opposite edge of said lid, as well as through lugs e^9 on the flange e^4 and through the hasp-lug itself, as shown plainly in Fig. 3, the hasp being at the same time
100 thus preferably hinged to the clamp device described. Within the inclosure formed by

the plate e , its flange e^4 , and the lid e^5 is the flanged disk e^{10} , fixed on the vertical shaft e^{11} , which is journaled in the plate and lid and is capable of longitudinal movement in its bearings. A spring e^{12} is interposed between the under side of the lid e^5 and the disk e^{10} , and upon the upper end of the shaft e^{11} , above the lid, is attached the hand-wheel e^{13} . The flange of the disk e^{10} is notched or slotted, as shown at e^{14} , Fig. 2, and the hasp e^2 carries the catch e^{15} , adapted to enter said notch or slot and engage said flange. The wall of the flange e^4 of the plate e is slotted at e^{16} to give the catch e^{15} entrance to the disk.

It is evident that when the disk e^{10} is rotated by its shaft so that the notch in its flange is brought opposite to the hasp-catch e^{15} , and the shaft carrying the disk is drawn upward against the thrust of the spring e^{12} , the catch will pass under the flange, and that then, by allowing the shaft to be carried downward by the spring, the catch will engage the said disk-flange, thus locking the hasp in position. The bar A and its frame C and the clamp E may thus be locked upon a type-writing machine, the bar A engaging the key-levers, so as to prevent their depression or movement, and the clamp E preventing any movement of the paper-carriage, and at the same time maintaining the bar in its stated position.

When it is desired to release the device from the machine, the disk e^{10} is rotated to bring the notch in its flange opposite to the hasp-catch, and is then raised by its shaft to release the catch, when the hasp may be swung outward and upward and the clamp E removed from the carriage, and then the bar A passed out from under the levers. The device, as a whole, may thus be readily and quickly locked upon a type-writing machine and unlocked and detached therefrom at pleasure. When locked upon the machine it serves to prevent the accidental or careless movement of the levers or carriage, which is a fruitful source of disarrangement of the parts, entailing repairs or readjustment. The device is also useful in holding the said movable parts of the machine rigidly in position while the machine is being transported from place to place.

I do not limit myself to the use, in connection with the bar A, the clamp E, and their uniting-frame C, of the specific hasp shown and described, nor of the devices herein described as constituting a preferable lock for the hasp of the clamp. Any other suitable, known, and equivalent devices may be employed in their place without material variation from the essential features of my invention, which are the bar A, adapted to engage the key-levers, and a clamp E, adapted to detachably engage the paper-carriage, together with a frame C, sustaining the bar and connecting it to the clamp.

When the described locking devices are employed, the face of the hand-wheel e^{13} may ad-

vantageously bear a series of figures, letters, or other symbols, and the wheel may be made adjustable laterally on the shaft e^{11} , so that the position of the figures, &c., relatively to the position of the notch in the flanged disk e^{10} may be changed at will, and a pointer or indicator e^{17} may be provided on the clamp, under which the figures may range as the wheel is rotated. Any figure or symbol on the wheel may be then selected by the operator, and the wheel adjusted on the shaft so as to bring the said figure or symbol under the pointer when the notch in the disk-flange is opposite to or in line with the hasp-catch. The locking devices being concealed from view within the flange e^4 , and the selected figure or symbol being known only to the operator, the locking or unlocking of the clamp E from the carriage cannot be readily accomplished by any one other than the operator aforesaid, and thus the liability of the device to be unlocked and removed from the machine will be reduced to the minimum.

The device, as a whole, will thus constitute a safety-lock upon the movable parts of the machine, and the manipulation of the device will be entirely within the control of the owner or operator of the machine.

The device, as shown in the drawings, is specially adapted by the shape of its described parts for use in connection with what is generally known as the "Remington type-writer;" but it may be adapted to fit upon other type-writing machines by making simple alterations in the shape of some of the parts—such as the general shape of the bar A or of the gripping-faces of the clamp E—without material variation from the essential features of the invention.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. As an article of manufacture, a safety locking device for type-writing machines, composed of a bar adapted to detachably engage the series or bank of key-levers of a type-writer, a clamp adapted to fit upon, engage, and be detachably locked to the paper-carriage, and a frame serving to sustain said bar and to connect it to and to carry said clamp, substantially as and for the purpose set forth.

2. As an article of manufacture, a safety locking device for type-writing machines, composed of a bar adapted to detachably engage the series or bank of key-levers of a type-writer, a frame or rods sustaining the same, an upwardly-extended longitudinally-adjustable rod or bar carried by said frame, and a clamp carried by said rod and adapted to fit upon, engage, and be detachably locked to the paper-carriage of the machine, substantially as and for the purpose set forth.

3. As an article of manufacture, a safety locking device for type-writing machines, composed of a bar adapted to detachably engage the series or bank of key-levers of a type-writer, a frame or rods sustaining said bar, and a clamp carried by said frame or rods and

having a plate adapted to rest upon the top of the frame of the paper-carriage, a flange or lug adapted to engage the front of said frame, and a hasp adapted to fit upon and be detachably locked to the rear of said frame, substantially as and for the purpose set forth.

4. In a safety locking device for type-writing machines, composed of a bar adapted to detachably engage the series or bank of key-levers of a type-writer, a frame or rods sustaining said bar, and a clamp carried by said frame and adapted to engage the paper-car-

riage and provided with a hasp, the combination, with said clamp, of a revoluble spring-pressed locking-disk adapted to engage at a point on its periphery the said hasp, a hand-wheel carried by and adjustable laterally upon the shaft of the locking-disk, and a fixed pointer or indicator carried by the clamp, all substantially as and for the purpose set forth.

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Witnesses:

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A. T. FALES.