

(No Model.)

H. H. UNZ.  
TYPE WRITING MACHINE.

No. 570,522.

Patented Nov. 3, 1896.

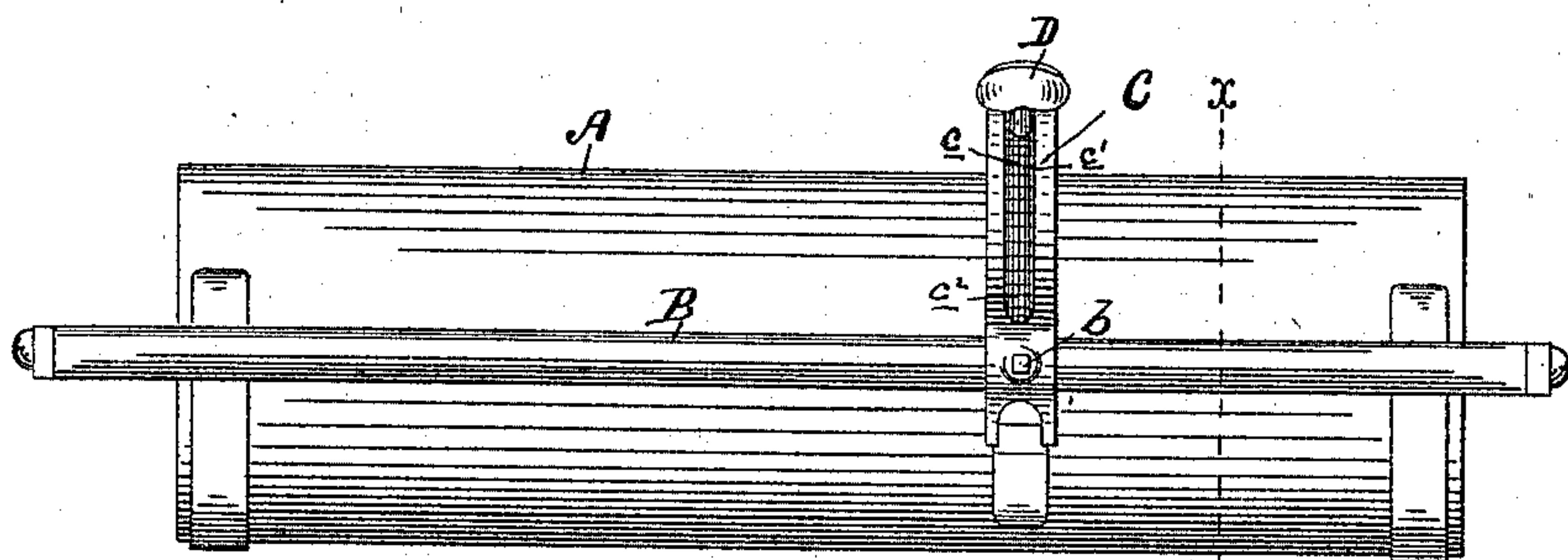


Fig. 1.

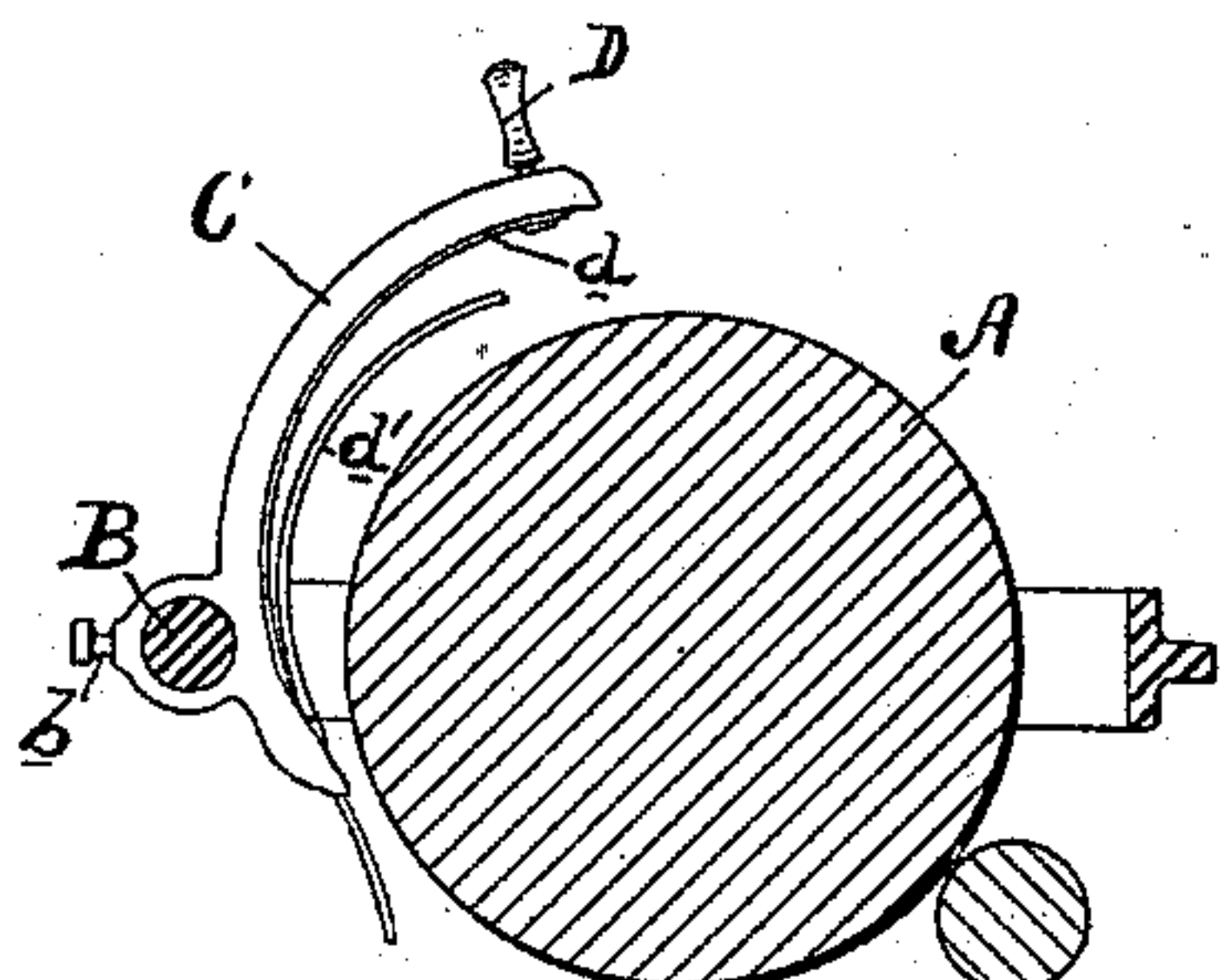


Fig. 2.

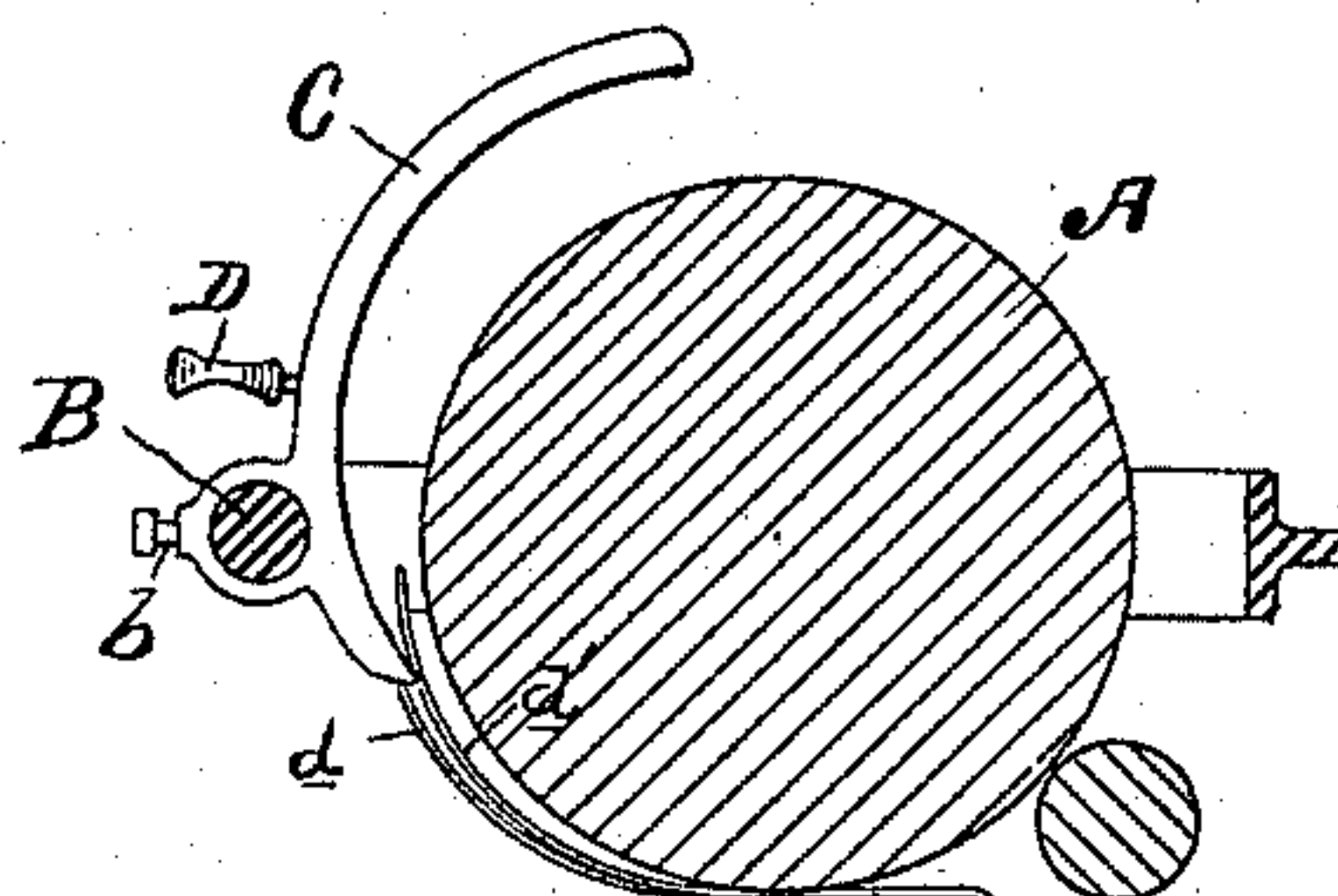


Fig. 3.

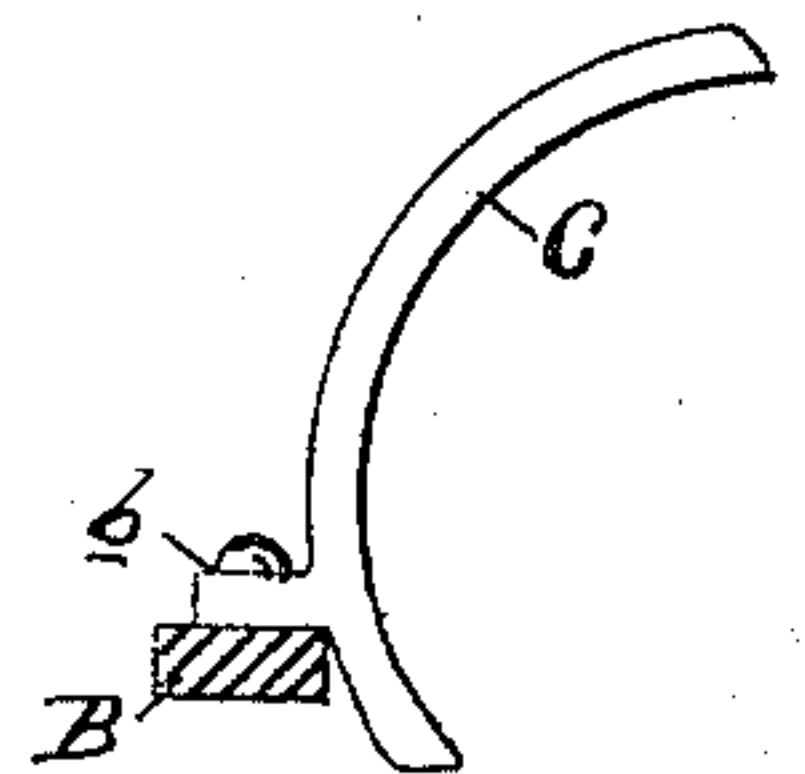


Fig. 5.

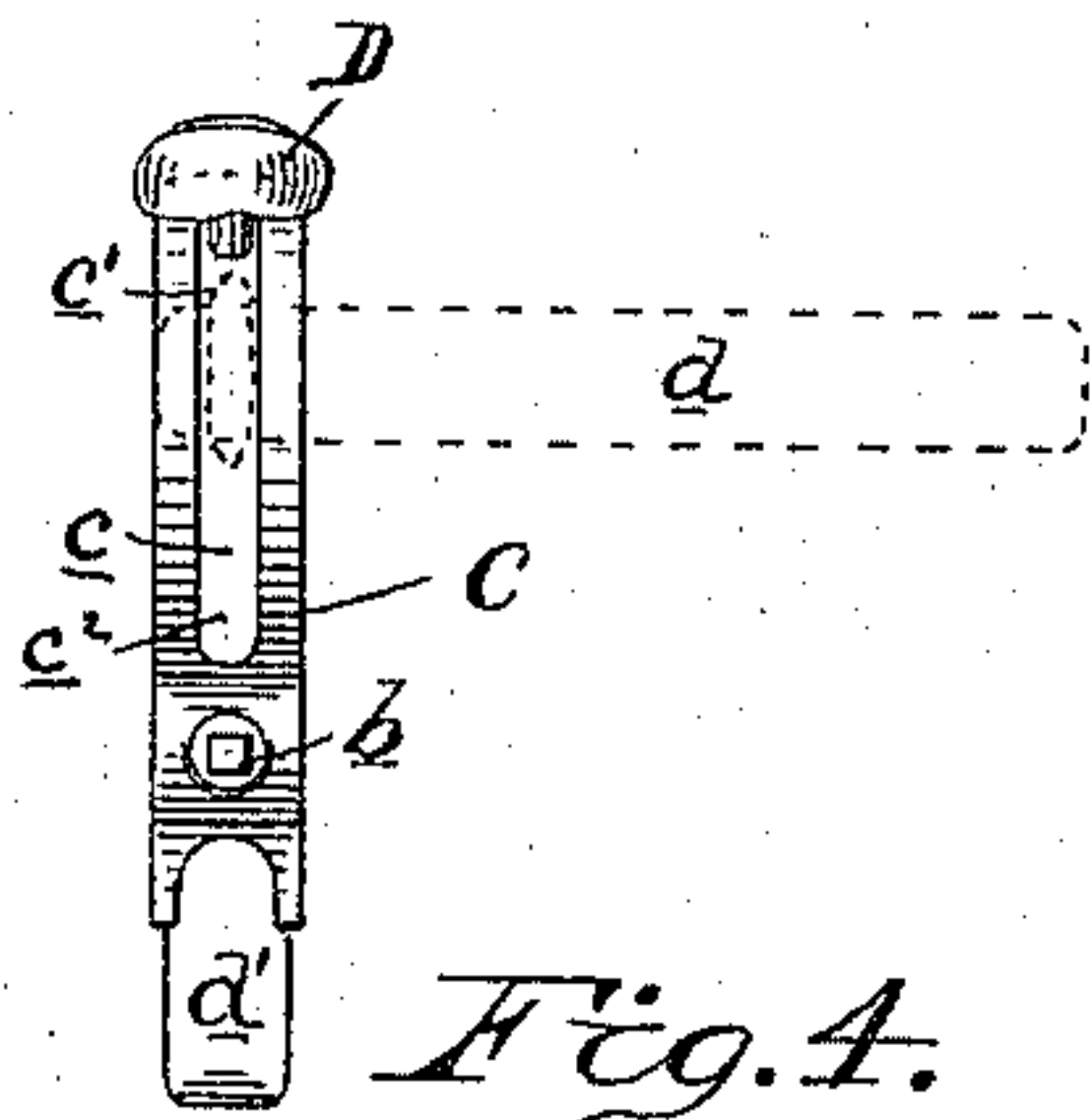


Fig. 4.

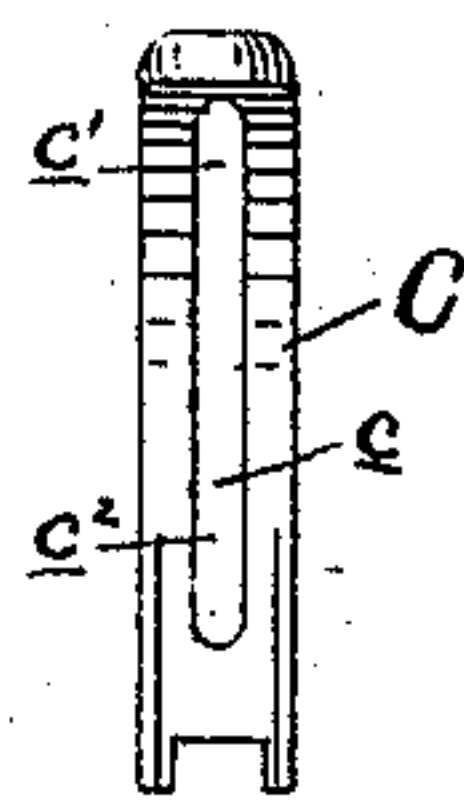


Fig. 6.

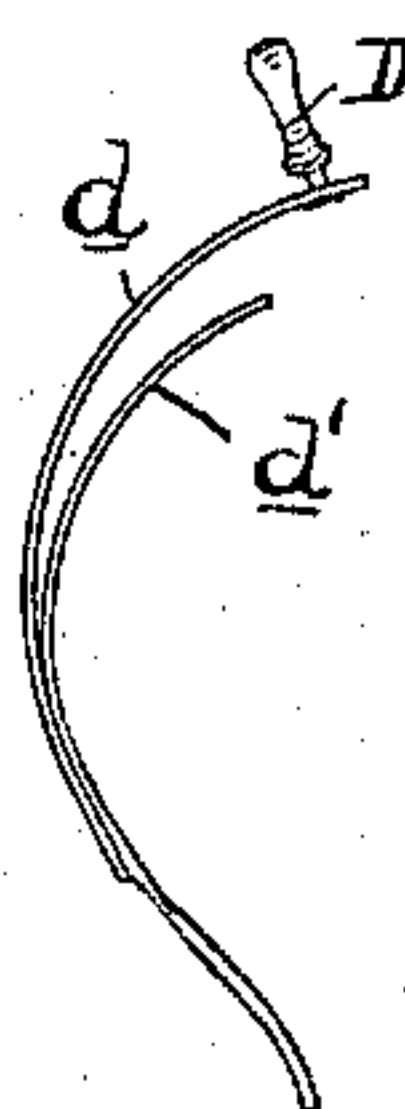


Fig. 7.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

HENRY H. UNZ, OF PHILADELPHIA, PENNSYLVANIA.

## TYPE-WRITING MACHINE.

SPECIFICATION forming part of Letters Patent No. 570,522, dated November 3, 1896.

Application filed November 16, 1889. Serial No. 330,538. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY H. UNZ, a citizen of the United States, and a resident of the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Type-Writers, of which the following is a true and exact description, due reference being had to the drawings which accompany and form a part of this specification and in which similar letters denote similar parts.

My invention relates more specifically to devices adapted to guide the material which is to be written upon while it is being placed around the platen; and it consists in a device secured to the machine which can be moved into such a position with reference to the platen that when the paper, envelop, &c., is being placed around the platen said paper, envelop, &c., can be so placed without lifting the platen and fed continuously and properly into its position with reference to the platen.

While my improvement is well adapted for use with any character of paper, it is especially applicable for use with paper or envelops which are of less width than the platen itself, as when envelops or paper of such a character is placed upon the platen in the manner now in ordinary use it is often passed around the platen unevenly, and in order to cause it to lie properly it is necessary to lift the platen and straighten the paper or envelop.

In the drawings, Figure 1 is a front view of platen, platen-carrier, frame or bracket, and paper or envelop guide. Fig. 2 is a section on line  $x\ x$ , Fig. 1, showing paper or envelop guide out of action; Fig. 3, the same section as Fig. 2, showing paper or envelop guide in action. Fig. 4 is a front view of paper or envelop guide, illustrating the method of removing the metallic strips of said guide. Fig. 5 is a side elevation of frame carrying paper or envelop guide. Fig. 6 is a detailed view of rear elevation of frame or bracket carrying the metallic strips of paper or envelop guide. Fig. 7 is a side elevation of the metallic strip of paper or envelop guide.

A represents the platen.

B is the rod of the platen-carrier frame. To this rod, by means of the thumb-screw  $b$ ,

is adjustably attached the frame or bracket C. In this frame is the slot  $c$ . The slot  $c$  in the frame or bracket extends in a direction generally circumferential of the cylindrical platen, but, as illustrated, one portion of the inner face of the bracket at the point  $c'$  is concentric with the platen, while the lower portion of said inner face of the frame at  $c^2$  is eccentric or at an angle to the platen. Movable in this slot  $c$  is the thumb-piece D. This thumb-piece is secured to the metallic strip  $d$ . Soldered or otherwise properly secured to the metallic strip  $d$  is the curved metallic strip  $d'$ . This metallic strip  $d'$  is secured to the strip  $d$  at a point near the end of said strip  $d$ . A portion of this strip  $d'$  extends up beyond the point of juncture between the strips  $d$  and  $d'$ . The thumb-piece D normally rests in the slot  $c$  in the position shown in Fig. 2, and when it is desired to insert a sheet of paper or envelop onto the platen the thumb-piece D is moved in the slot  $c$ , carrying with it the metallic strips  $d$  and  $d'$ . When the thumb-piece D reaches the portion  $c^2$  of the inner face of bracket C, it moves inward in a path eccentric to the platen, causing the strip  $d'$  to move against and beyond the printing-point of the platen or the lowermost point of the platen. The paper may be then inserted around the platen, the lower portion of the strip  $d'$  forming a point of reception for the paper and guiding it around the platen, past the printing-point, while the portion of the strip  $d'$  which extends above the juncture-point of the strips  $d'$  and  $d$  guides said paper up around the platen. The paper is thus guided from its first point of contact with the platen until it is fully around the platen.

As generally used, after the paper is brought into position on the platen the thumb-piece D is pushed back again into the position shown in Fig. 2 and the paper is in the platen ready for the writing to begin, but in some cases where the printing is not carried over the whole of the paper, such, for instance, as in envelop-writing, the frame or bracket C is moved along the rod to a point where the printing is not desired to be done and the envelop or paper put in, as hereinbefore described, and in place of pushing the thumb-piece back into the position shown in Fig. 2



it remains in the position shown in Fig. 3 during the operation of writing. This is especially applicable to paper which is of less width than the platen and for envelops.

5 As illustrated in the drawings, there are two metallic strips  $d$  and  $d'$ . The object of this is that there will be given to the strip  $d'$  as much resiliency as possible and to make its point of spring as near its point of contact  
10 with the platen as possible, and also it is desirable that there shall be a strip projecting around the platen and between the platen and the frame or bracket C, so that the paper will not strike the frame or bracket C in pass-  
15 ing around and will be guided through a greater period of its passage around the platen than if only one metallic strip were used, but I do not intend to limit myself to the use of two metallic strips, as one metallic strip may  
20 be used and great benefit derived from the same.

In order to remove the metallic strips  $d$  and  $d'$  when they become worn, so that they may be replaced, the thumb-screw D is turned into  
25 the position shown in dotted lines, Fig. 4, when the thumb-piece and metal strips may be removed from the frame and replaced by others.

Having now fully described my invention, 30 what I claim, and desire to protect by Letters Patent, is—

1. In combination, a platen, a paper-guide, and a bracket on which said guide is adapted to move in a path eccentric to the platen to  
35 and over the printing-point on said platen.

2. In combination, a platen, a paper-guide, and a bracket on which said guide is adapted to move in a path eccentric to the platen to and over the printing-point of said platen,  
40 said guide being capable of a lateral movement along said platen.

3. In combination, a platen, a paper-guide, a bracket on which said guide is adapted to move for a portion of its movement in a path  
45 concentric to the platen, and in a path eccentric to the platen for the remainder of its movement, to and over the printing-point on said platen.

4. In combination, a platen, a paper-guide, 50 a bracket on which said guide is adapted to move for a portion of its movement in a path concentric to the platen, and in a path eccentric to the platen for the remainder of its movement, to and over the printing-point on  
55 said platen, said paper-guide being capable of a lateral movement along the platen.

5. In combination, a cylindrical platen, a bracket or frame supported in proximity thereto, and a guide-finger carried by said  
60 frame and movable in the general direction of its length and about circumferentially of the platen, substantially as described.

6. In combination, a cylindrical platen, a frame in proximity thereto, and a curved  
65 guide movable in said frame in the direction of its length, and about circumferentially of the platen, substantially as described.

7. In combination, the platen, the frame near the same, and the guide moving about the platen in a direction generally circum- 70 ferential and slightly eccentric to its surface, substantially as described.

8. In a type-writing machine, in combination, a platen, a frame secured to said machine, a slot in said frame, a thumb-piece 75 adapted to work in said slot, the lower portion of inner face of said frame or bracket being eccentric or at an angle to the platen, and metallic strips secured to said thumb-piece. 80

9. In a type-writing machine, in combination, a platen, a frame or bracket secured to said machine, a slot in said frame or bracket, a thumb-piece adapted to travel in inner face 85 of said slot, the lower portion of said frame or bracket being eccentric or at an angle to the platen, and a curved metallic strip secured to said thumb-piece.

10. In a type-writing machine, in combination, a platen, a frame or bracket secured to 90 said machine, a slot in said frame or bracket, a thumb-piece adapted to travel in inner face of said slot, the lower portion of said bracket or frame being eccentric or at an angle to the platen, a metallic strip secured to said thumb- 95 piece, a metallic strip secured to the last-mentioned strip at a point at or near its end, a portion of the second metallic strip extending up beyond the point of juncture of the two strips. 100

11. In a type-writing machine, in combination, a platen, a frame or bracket secured to said machine, a slot in said frame or bracket, a thumb-piece adapted to travel in inner face 105 of said slot, the lower portion of said frame or bracket being eccentric or at an angle to the platen, a curved metallic strip secured to said thumb-piece, a curved metallic strip secured to the last-mentioned strip at a point at or near its end, a portion of the second 110 curved metallic strip extending up beyond the point of juncture of the two curved strips.

12. In a type-writing machine, in combination, a platen, a platen-carrier, a frame or bracket adjustably secured to a rod a portion 115 of said platen-carrier, a slot in said frame or bracket, a thumb-piece adapted to travel in said slot, the lower portion of inner face of said frame or bracket being eccentric or at an angle to the platen, and a metallic strip se- 120 cured to said thumb-piece.

13. In a type-writing machine, in combination, a platen, a platen-carrier, a frame or bracket adjustably secured to a rod a portion 125 of said platen-carrier, a slot in said frame or bracket, a thumb-piece adapted to travel in said slot, the lower portion of inner face of said bracket or frame being eccentric or at an angle to the platen, and a curved metallic strip secured to said thumb-piece. 130

14. In a type-writing machine, in combination, a platen, a frame or bracket secured to said machine, a slot in said frame or bracket, a thumb-piece adapted to travel in said slot,



said thumb-piece being of greater width than the slot in one direction, but narrower than the slot in the other, the lower portion of inner face of said frame or bracket being eccentric or at an angle to the platen, and a metallic strip secured to said thumb-piece.

15. In a type-writing machine, in combination, a platen, a frame or bracket secured to said machine, a slot in said frame or bracket, a thumb-piece adapted to travel in said slot, said thumb-piece being of greater width than the slot in one direction, but narrower than the slot in the other, the lower portion of inner face of said frame or bracket being eccentric or at an angle to the platen, a metallic strip secured to said thumb-piece, a metallic strip secured to the last-mentioned metallic strip at a point at or near its end, a portion of the second metallic strip projecting up and beyond the soldered point.

16. In combination with a platen of a device independent of the platen supported in proximity thereto, and a guide-finger movable upon said device, said device forming a guideway defining the movement of the finger.

17. In combination with a platen, of a device independent of the platen supported in proximity thereto and movable longitudinally thereof, and a guide-finger movable upon said device, said device forming a guideway defining the movement of the finger.

18. In combination with a platen, of a device independent of the platen supported in proximity thereto, and a curved guide-finger movable upon said device, said device forming a guideway defining the movement of the finger.

19. In combination with a platen of a device independent of the platen supported in proximity thereto, and a resilient guide-finger movable upon said device, said device forming a guideway defining the movement of the finger.

In witness whereof I have signed my name this 8th day of November, 1889.

HENRY H. UNZ.

Witnesses:

G. J. HARDING,  
ABNER J. DAVIS.