

NO. 617,887.

Patented Jan. 17, 1899.

H. H. STEELE.  
TYPE WRITING MACHINE.

(Application filed May 6, 1898.)

(No Model.)

Fig. 1.

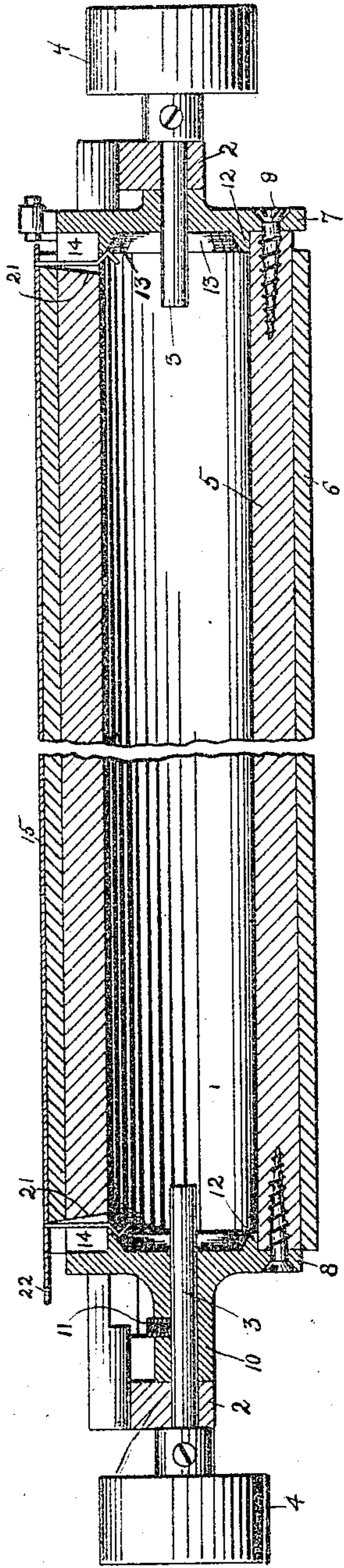


Fig. 2.

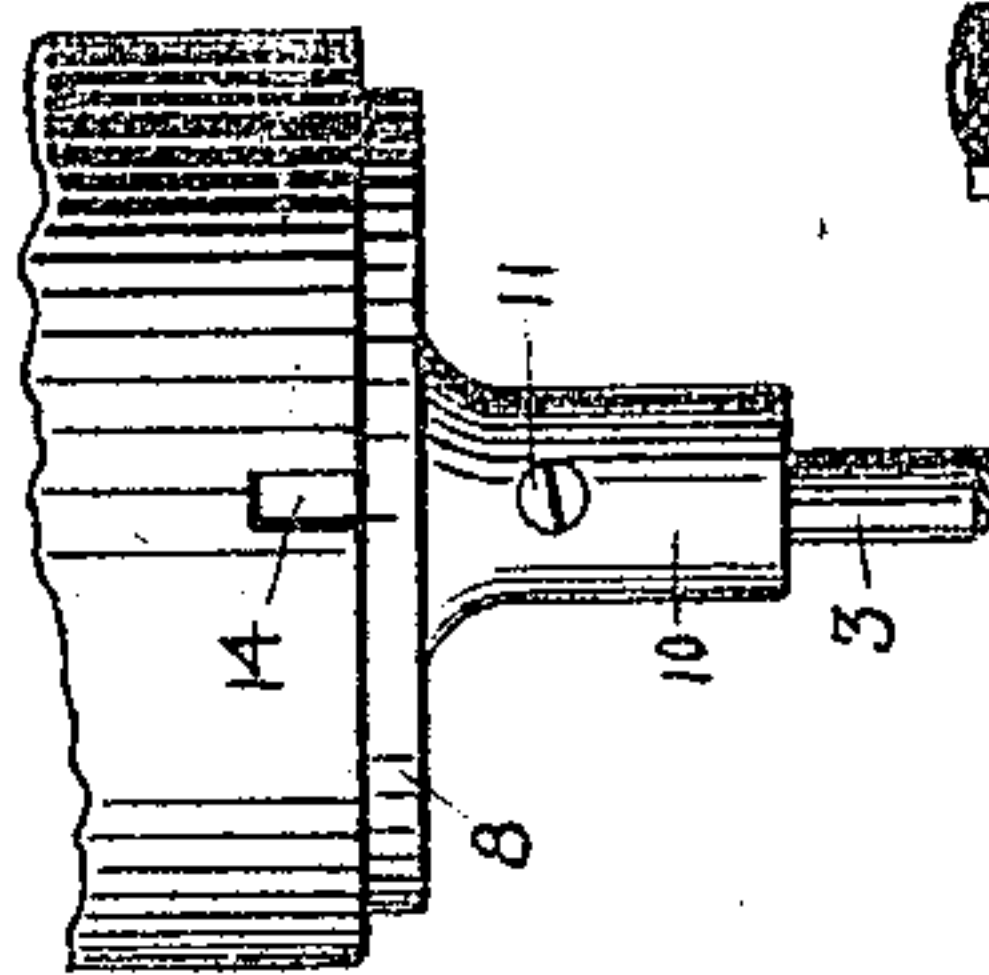


Fig. 3.

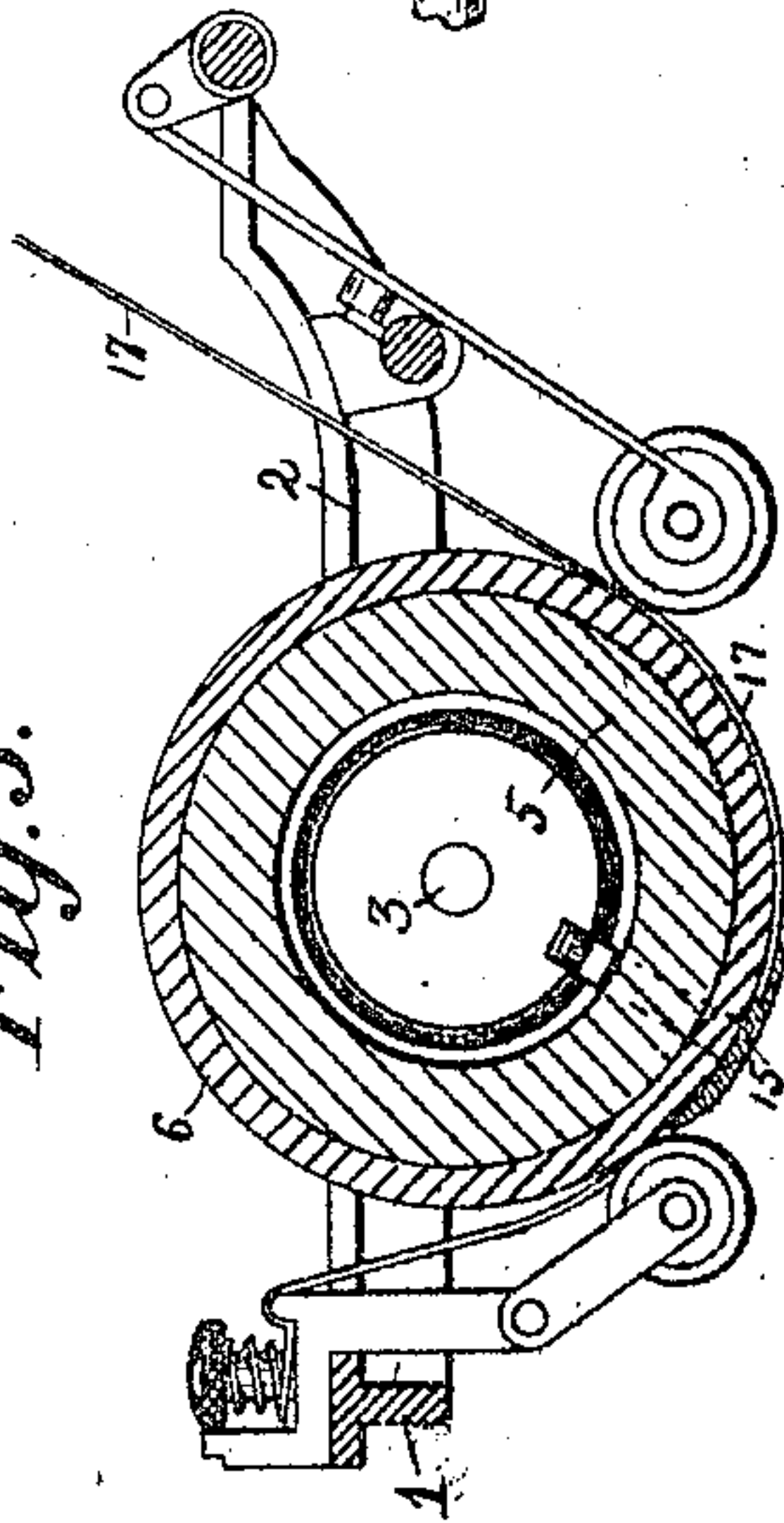
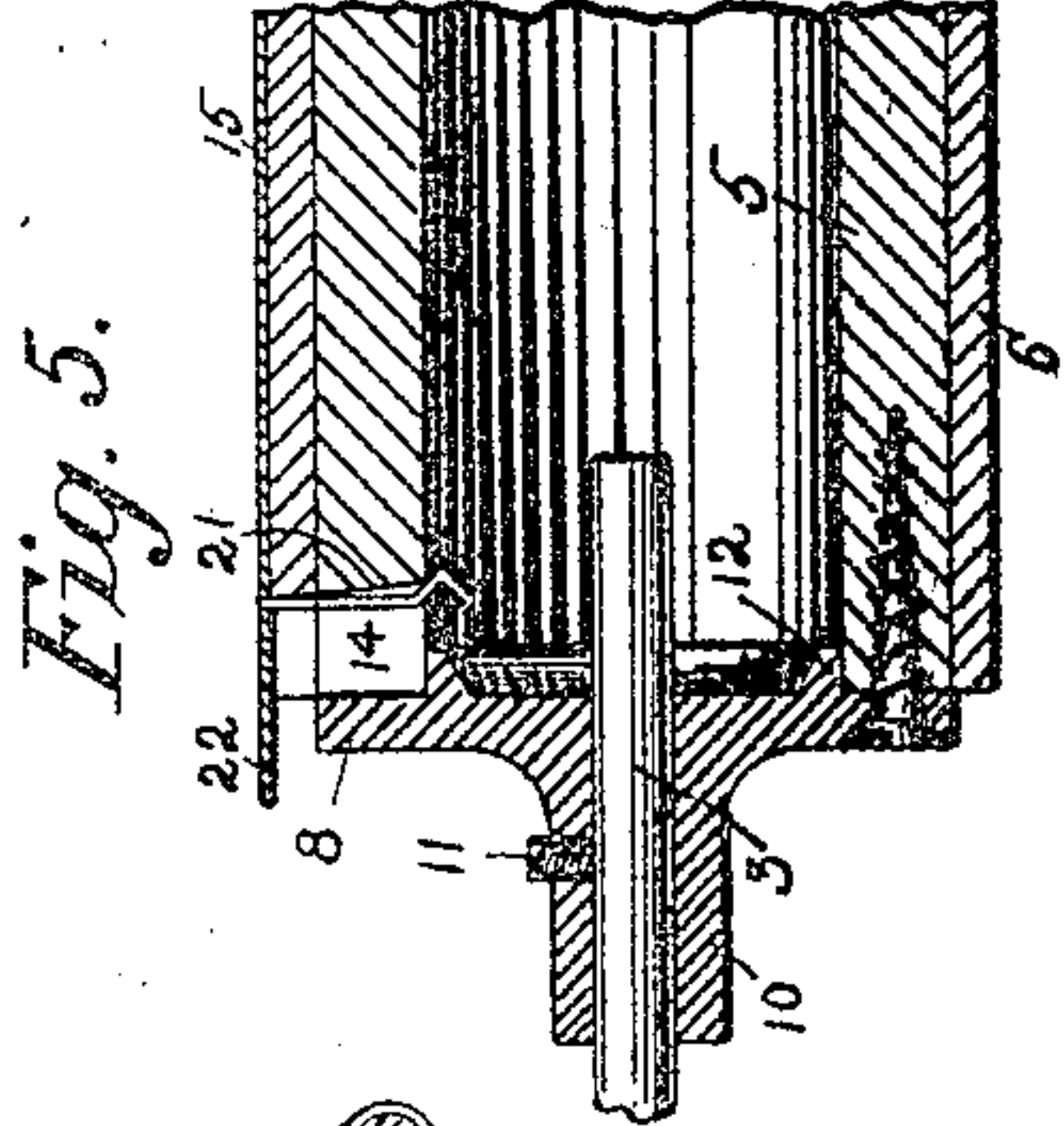
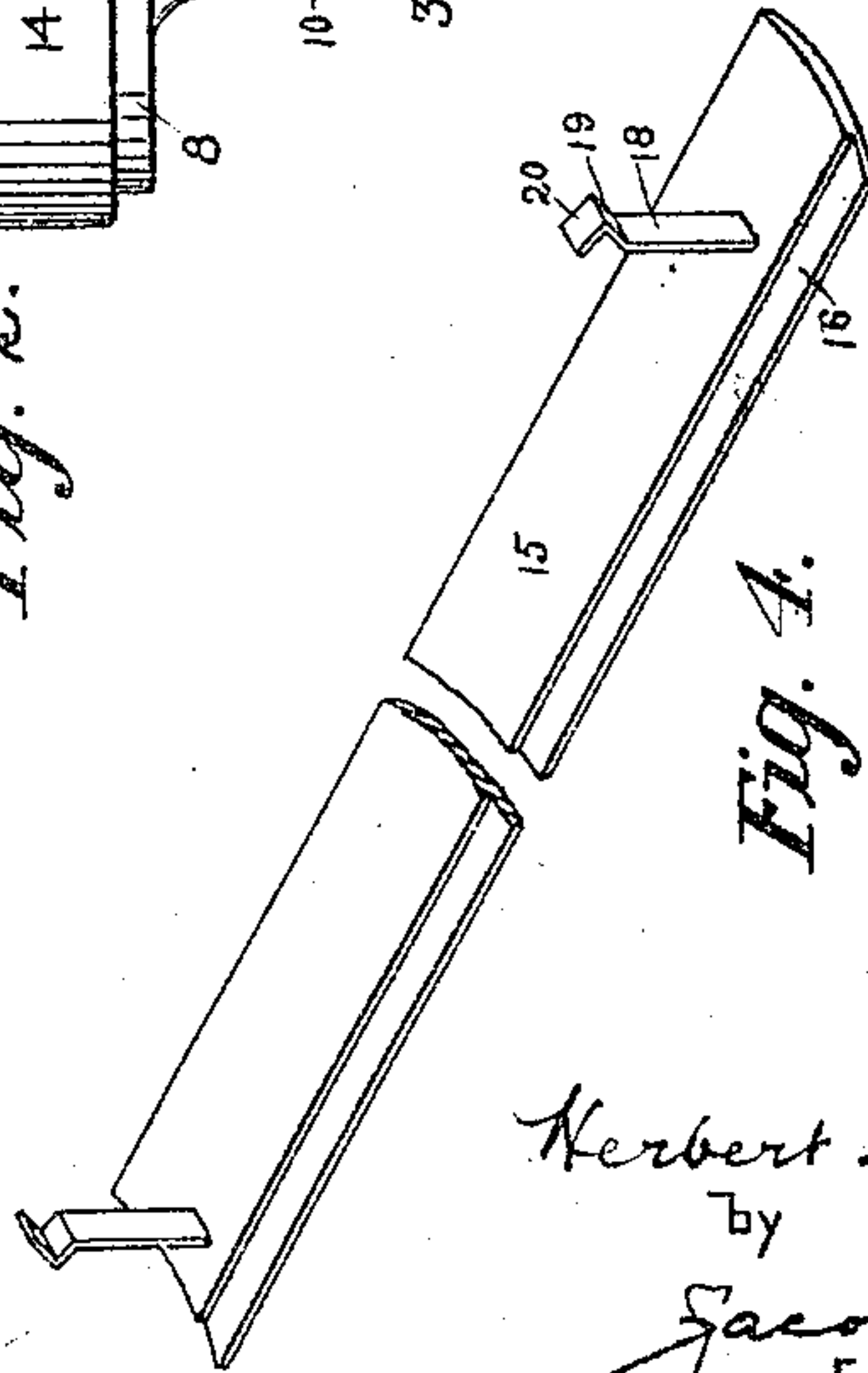


Fig. 4.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## TYPE-WRITING MACHINE.

SPECIFICATION forming part of Letters Patent No. 617,887, dated January 17, 1899.

Application filed May 6, 1898. Serial No. 679,910. (No model.)

*To all whom it may concern:*

Be it known that I, HERBERT H. STEELE, a citizen of the United States, and a resident of New York, in the borough of Brooklyn, county  
5 of Kings, and State of New York, have invented certain new and useful Improvements in Type-Writing Machines, of which the following is a specification.

My invention has for its main object to provide a construction of platen and card-holder whereby the latter may be readily attached to and detached from the platen and one in which when the card-holder is attached it is held or locked firmly in operative condition  
15 against casual detachment; and it is a further object of my invention to provide a construction such that the platen may also be used for writing upon paper in the usual manner when the card-holder is detached.

To these ends my invention consists, primarily, in combining with a platen having a perforation at or near each end a card-holder having spring-legs at or near its ends adapted to pass through said perforations and to engage at their free bent ends with interior parts  
25 of the platen; and my invention consists also in certain other features of construction and combinations of devices, all of which will be hereinafter more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a vertical longitudinal section of a portion of a type-writing machine, showing my improvements. Fig. 2 is a plan view of the left-hand  
35 end of the platen. Fig. 3 is a central vertical section through the platen and its carriage or frame. Fig. 4 is an inverted perspective view of the card-holder. Fig. 5 is a vertical longitudinal section of a modified form of my invention.

In the various views the same part will be found designated by the same numeral of reference.

1 designates the platen carriage or frame, in the side or end bars 2 of which is mounted to rotate the platen shaft or axle 3, which may extend continuously throughout the center of the platen or which may be made in sections, as shown. At each end of the platen is a knob  
45 or hand-wheel 4 for turning the shaft and platen. The platen comprises, as usual, a hol-

low core 5, a surrounding cover or sheath 6, and cylindrical ends or heads 7 and 8, which are attached to the core by means of screws 9. The left-hand platen-head is provided with a  
55 sleeve or hub 10, which is attached to the shaft 3 by means of a set-screw 11. On the inner side of each platen-head is formed or provided a cylindrical flange 12, upon which the core is seated, and the said flanges are  
60 hollowed out or formed dishing in a manner to provide a tapering or beveled wall 13, which extends circularly about the interior of the flange.

At or near each end of the platen, contiguous to the head, is formed a hole or opening 14, which extends through both the sheath and the core and communicates with the interior of the latter.

The card-holder comprises a bar or plate  
70 15, slightly curved, as usual, to match the surface of the platen and formed at one edge with an undercut, so as to provide an overhanging lip or flange 16 for the insertion of the leading end of the card 17. Secured  
75 near each end of the card-holder and on the under side thereof is a leg or projection 18, which is preferably composed of springy sheet metal. The lower or free end of each leg or projection is formed with two oppositely-dis-  
80 posed bends 19 and 20, made, preferably, at right angles to each other and at obtuse angles to the body of the leg.

The card-holder is attached to the platen by passing the legs 18 down through the holes  
85 in the platen until the bar or plate portion 15 of the card-holder bears upon the surface of the platen and the bent ends of the legs engage with the flanges of the platen-heads, as shown at Fig. 1. During the passage of  
90 the legs through the holes in the platen the inwardly bent or beveled extremities 20 first strike against the upper edges of the flanges 12 of the platen-heads and then slide along the same inwardly as the insertion of the legs  
95 is continued and until the said bends 20 pass beyond the holes in the core and into the interior of the platen. The beveled ends 20 act as cams or wedges to bend or flex the elastic legs 18 during the time the beveled  
100 ends 20 are passing over the upper or outer edges of the flanges 12, thus storing a slight



amount of tension in the said legs, which operates to force the said legs outwardly again as soon as the beveled ends 20 have passed off of the sides of the flanges, and to thus  
 5 cause the beveled portions 19 of the legs to press against the inner edges of the flanges, as shown at Fig. 1, and with a force great enough to securely lock or hold said legs, and hence the card-holder, against accidental detachment. The inner sides of the holes 14  
 10 in the platen are slightly beveled, as at 21, to enable the legs to be flexed or bent by the bent or beveled portions 20.

When it may be desired to remove the card-  
 15 holder, this may be readily accomplished by pulling up or upon the finger-piece or extension 22, whereupon the beveled portions 19 will be forced inwardly by the edges of the flanges a sufficient extent to enable the sharp  
 20 bends at the junctions of the parts 19 and 20 to pass by the flanges and out through the openings in the platen. The portions 19 of the legs engage slightly the tapering walls 13 of the dishing portions of the flanges and  
 25 have a hook-like action thereagainst under spring-tension; but the hook-like portions 19 are so formed relatively to the said flanges that they are adapted readily to automatically disengage themselves therefrom upon an  
 30 upward or outward pull upon the card-holder, and the beveled or bent portions 20 are so formed relatively to the said flanges as to put the tension into the legs and simultaneously guide the hook portions 19 into proper rela-  
 35 tionship with the flanges to lock or hold the card-holding contrivance upon the surface of the platen. In brief, the hook-like or bent legs spring or snap against and engage the flanges after passing through the holes in the  
 40 platen and in such a way as that they may be readily detached on the application of sufficient force to the card-holder in a direction to pull the legs out of the holes.

Referring now to Fig. 5, the platen is shown  
 45 as constructed similarly to that shown in the other views; but the bends in the legs of the card-holder are made in the reverse direction to those shown in the other views—that is to say, the bent or inclined portion 19 is directed  
 50 downwardly and inwardly instead of downwardly and outwardly, as in Fig. 1, while the portion 20 is directed downwardly and outwardly instead of downwardly and inwardly, as in said other figures, and by this variation  
 55 in construction the portion 19 is adapted to cooperate with the inner edge of the core of the platen instead of with the flange of the platen-head, as previously described, but in substantially the same manner and with practically the same results. The portion 20, how-  
 60 ever, coacts with the edge of the hole at the sheath in the inserting operation.

I do not wish to be limited to the use of spring hooks or legs engaging or catching  
 65 upon the flange 12 or upon the core of the platen, as it will be apparent that other engaging portions or devices may be employed

to cooperate with said legs or hooks, and unless otherwise specifically stated I wish my claims to include any suitable device on or  
 70 portion of the platen which may be used to cooperate with and engage said spring legs or hooks. I regard the said flanges, as well as the core, as portions of the platen, considered in its entirety.

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

1. In a type-writing machine, the combination of a platen having holes and a card-holder having spring-legs provided with bends or  
 80 hooks passing through the holes in the platen and engaging interior portions of the platen.

2. In a type-writing machine, the combination of a platen having holes, a card-holder having spring-legs provided with bends or  
 85 hooks, and means within the platen for engaging the bends or hooks.

3. In a type-writing machine, the combination of a platen having a hole, a card-holder having a spring-hook passed therethrough,  
 90 and an engaging device within the platen for cooperating with said spring-hook.

4. In a type-writing machine, the combination of a platen having a hole, a card-holder having a spring-leg provided at its free end  
 95 with two oppositely-disposed bends, and means within the platen for cooperating with said bends.

5. In a type-writing machine, the combination of a platen having a hole one side of which  
 100 is tapered or beveled, a card-holder having a spring-leg formed or provided at its free end with oppositely-disposed bends, and means within the platen for cooperating with said bends.

6. In a type-writing machine, the combination of a platen having a hole, a spring-leg passing through said hole and formed or provided at its free end with two oppositely-disposed  
 110 inclines or beveled portions, and means within the platen for cooperating therewith.

7. In a type-writing machine, the combination of a platen provided at or near each end with a hole, a card-holder, provided at or near  
 115 each end with a resilient leg having at its free end a beveled or inclined portion 19 to engage with a suitable portion interiorly of the platen.

8. In a type-writing machine, the combination of a platen having a hole at or near each end and having platen-heads provided each  
 120 with a flange, a card-holder provided at or near each end with a resilient leg which at its free end is formed or provided with the oppositely-disposed bevels or inclines 19 and 20 adapted to cooperate with their associated  
 125 flange in the manner substantially as shown and described.

Signed at the borough of Manhattan, in the city, county, and State of New York, this 4th day of May, A. D. 1898.

HERBERT H. STEELE.

Witnesses:

K. V. DONOVAN,  
 ETHEL WELLS.