

H. CRUTCHLEY.
TYPE WRITING MACHINE.
APPLICATION FILED MAR. 1, 1909.

923,951.

Patented June 8, 1909.

FIG. 1.

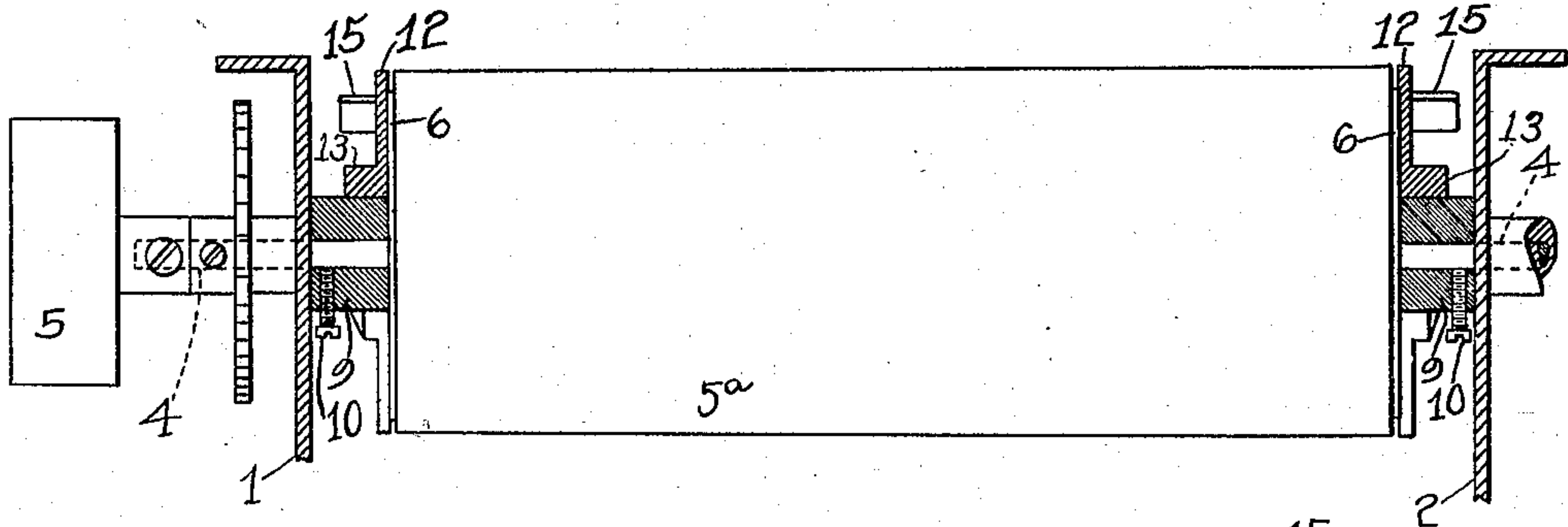


FIG. 2.

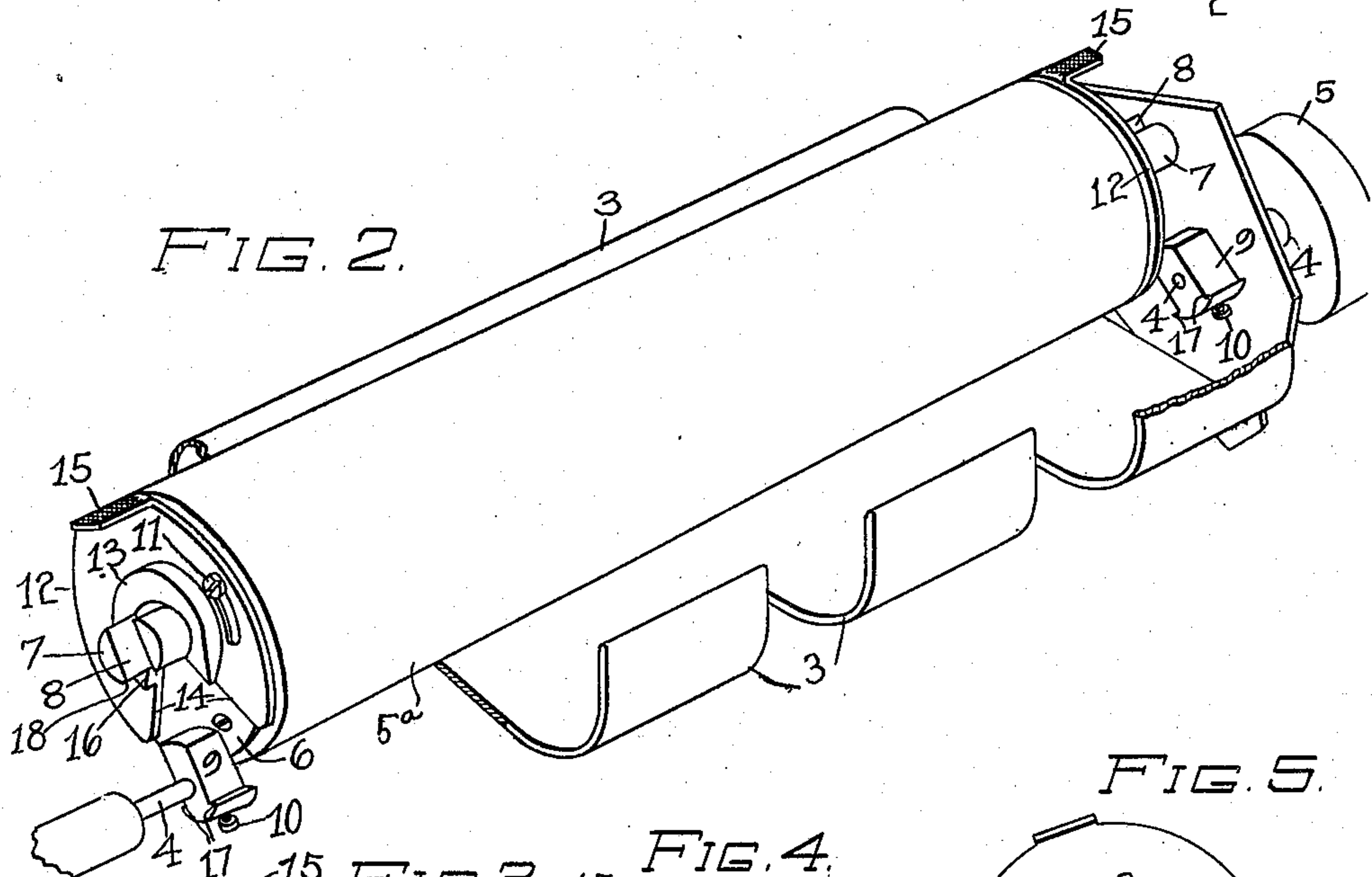


FIG. 5.

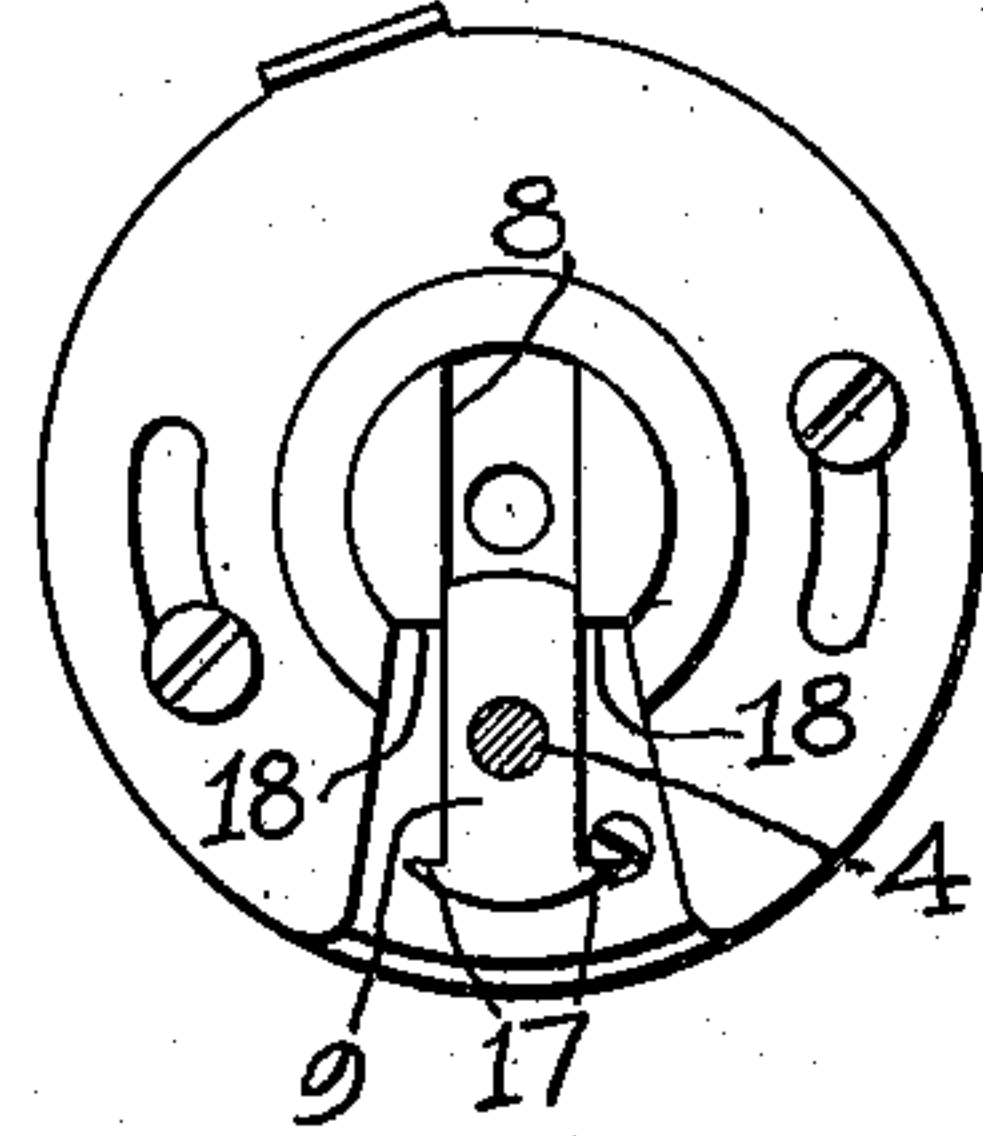


FIG. 3.

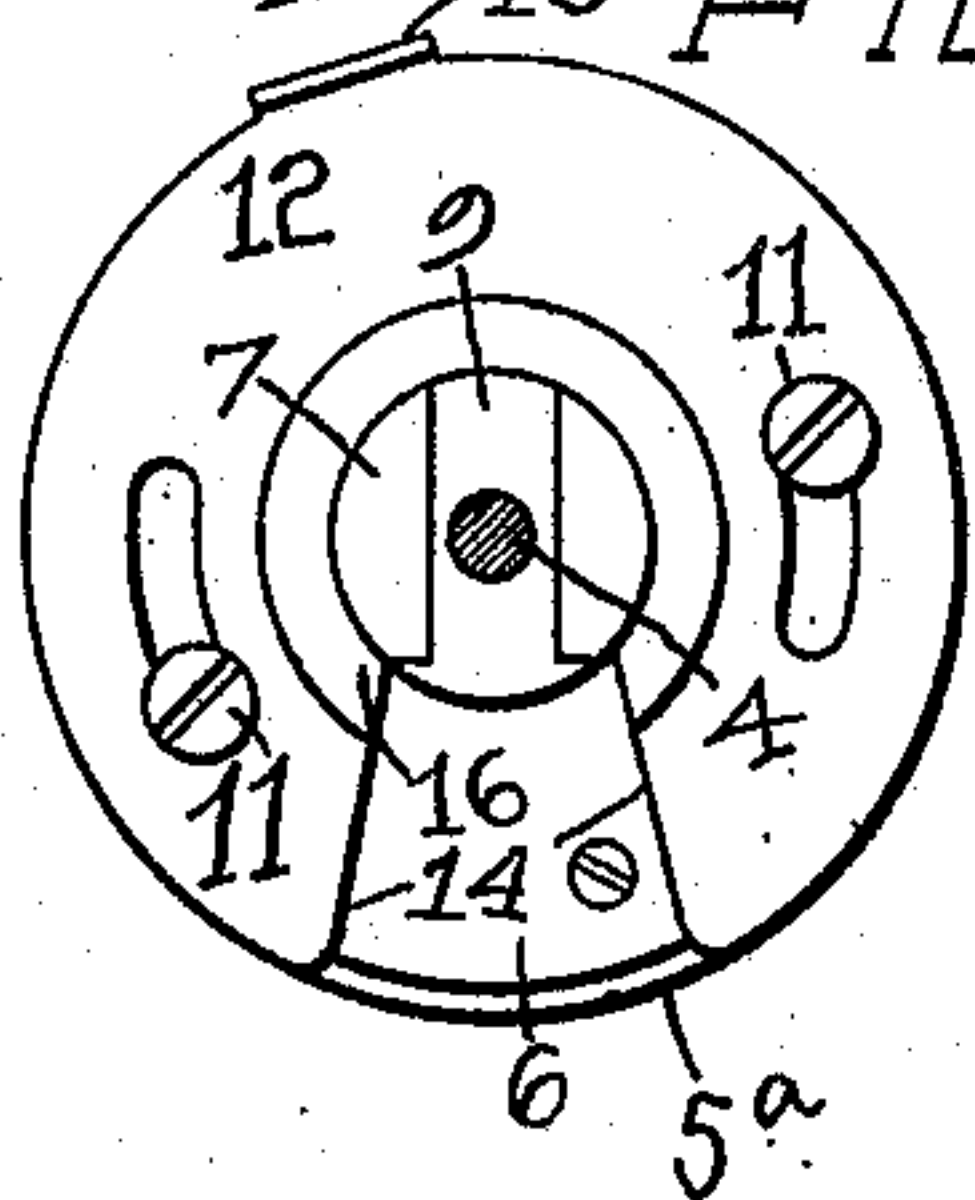
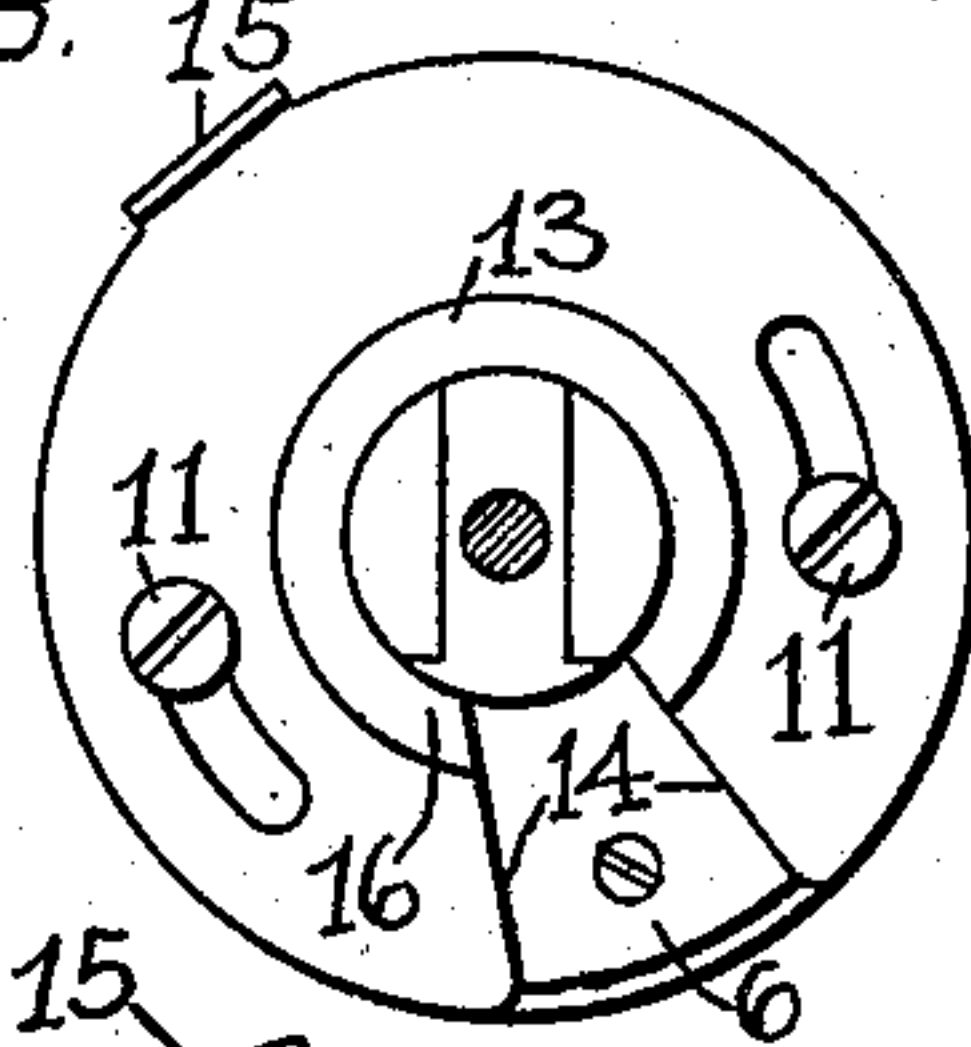


FIG. 4.



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UNITED STATES PATENT OFFICE.

HARRY CRUTCHLEY, OF JERSEY CITY, NEW JERSEY, ASSIGNOR TO UNDERWOOD TYPE-
WRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

TYPE-WRITING MACHINE.

No. 923,951.

Specification of Letters Patent.

Patented June 8, 1909.

Application filed March 1, 1909. Serial No. 480,676.

To all whom it may concern:

Be it known that I, HARRY CRUTCHLEY, a citizen of the United States, residing in Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Type-Writing Machines, of which the following is a specification.

This invention relates to the revoluble platens of typewriting machines, and its object is to provide simple, inexpensive and practicable means for affording the ready detachment of a platen and substitution of another one in the typewriting machine. To this end, each of the usual platen heads is provided with a hub, which is mortised radially, and each of two short platen axles (journaled in the ends of the platen frame) is provided with a tenoned part which fits into the mortise in the hub. Upon the platen head is provided a rocking lever or disk, which has a part to hook over the tenoned part and lock it firmly to the platen hub. By this means, the platen is readily detached when desired, and may be easily replaced and mechanically locked in exact alinement with the platen axles.

In the accompanying drawings, Figure 1 is a sectional front elevation of a platen detachably mounted in a platen frame by means of the present devices. Fig. 2 is a perspective view illustrating the manner of detaching the platen from the platen frame. Fig. 3 is a sectional end elevation showing the platen unlocked or released from the platen axle. Fig. 4 is a similar view showing the platen locked to the platen frame. Fig. 5 is a view similar to Fig. 3, but shows the method of lifting the platen from the platen axle. Fig. 6 is an elevation of the locking disk, which is mounted upon each of the platen heads.

The platen frame of an Underwood machine usually comprises ends 1, 2, united by a plate 3, which serves to guide the paper into the machine. In each of the platen frame ends is suitably journaled an axle 4, each carrying a hand wheel 5, whereby to turn the platen 5^a; and since the parts at one end of the platen are duplicates of those at the other end thereof, only those at one end will be described.

Each of the usual platen heads 6 is provided with an integral or other fixed hub 7, which is radially mortised or slotted at 8, to receive a tenoned member 9, which is fixed

by a set screw 10 to the end of each axle 4. This tenoned part 9 fits closely in the mortise 8.

Upon each head of the platen frame is held by screws or other headed members 11 a disk 12, which has a hub-like portion 13 fitting loosely upon the hub 7 of the platen. One portion of the disk is cut away at 14, to release the platen from the tenoned member; and by means of a finger-piece 15 formed on the disk, the latter may be turned upon the hub 7 either to release the platen, as at Fig. 3, or to lock it to the tenoned member, as at Fig. 4; a portion 16 of the disk hooking over the tenoned member (Fig. 4). The latter is formed with a pair of shoulders 17 to fit seats 18 formed on the hub, one on each side of the mortise, Fig. 5, and the hook portion 16 of the locking disk or lever is effective to clamp the shoulders of the tenoned member firmly against the seats of the hub.

When it is desired to take the platen from the machine both finger-pieces 15 are swung forwardly from the Fig. 4 position to the Fig. 3 position, and then the platen is lifted from the axles, as at Figs. 1 and 5. To replace the platen, the operation is reversed, the hubs being slipped down upon the tenoned members until they rest against the seats 18, whereupon the finger-pieces 15 are moved to the Fig. 4 position, to lock the parts firmly together.

Variations may be resorted to within the scope of the invention.

Having thus described my invention, I claim:

1. The combination with a platen frame having a platen axle journaled in its end, of a platen having a radially mortised hub to receive a tenoned part on the platen axle, and revoluble releasable means surrounding said hub and tenoned member to lock the latter to the hub.

2. The combination with a platen frame having a platen axle journaled in its end, of a platen having a mortised hub, a tenoned part on said platen axle to fit in said mortised hub, said tenoned part being provided with a shoulder to fit a seat on the hub, and revoluble releasable means surrounding said hub and tenoned member to lock the shoulder to the seat.

3. The combination with a platen frame having a platen axle journaled in its end, of a platen provided with a head and having a

mortised hub projecting from said head, a tenoned part on said platen axle to fit in said mortised hub, and a locking plate mounted on the platen head, to lock said tenon releasably in said mortised hub.

4. The combination with a platen frame having a platen axle journaled in its end, of a platen provided with a head and having a mortised hub projecting from said head, a tenoned part on said platen axle to fit in said mortised hub, and a locking plate mounted on the platen head, to lock said tenon releasably in said mortised hub; said locking plate mounted to turn upon said hub and formed with a part to hook over said tenoned part.

5. The combination with a platen frame having a platen axle journaled in its end, of a platen provided with a head and having a mortised hub projecting from said head, a tenoned part on said platen axle to fit in said mortised hub, and a locking plate mounted on the platen head, to lock said tenon releasably in said mortised hub, said locking plate provided with a finger-piece and in the form of a disk turning upon said hub and having a cutaway portion to be turned into register with said tenoned part to release the same.

6. The combination with a platen frame having a platen axle journaled in its end, of a platen provided with a head and having a mortised hub projecting from said head, a tenoned part on said platen axle to fit in said mortised hub, a locking plate mounted on the platen head, to lock said tenon releasably in said mortised hub, said locking plate provided with a finger-piece and in the form of a disk turning upon said hub and having a cutaway portion to be turned into register with said tenoned part to release the same, slots being provided in said disk, and headed

devices projecting from said platen head through said slots to hold the disk in position.

7. The combination with a platen frame having a platen axle journaled in its end, of a platen provided with a head and having a mortised hub projecting from said head, a tenoned part on said platen axle to fit in said mortised hub, a locking plate mounted on the platen head, to lock said tenon releasably in said mortised hub, said locking plate provided with a finger-piece and in the form of a disk turning upon said hub and having a cutaway portion to be turned into register with said tenoned part to release the same, slots being provided in said disk, and headed devices projecting from said platen head through said slots to hold the disk in position; said headed devices serving to limit the throw of the locking disk by engagement with the slot ends.

8. The combination with a platen frame having a platen axle journaled in its end, of a platen provided with a head and having a mortised hub projecting from said head, a tenoned part on said platen axle to fit in said mortised hub, and a locking plate mounted on the platen head, to lock said tenon releasably in said mortised hub, said locking plate provided with a finger-piece and in the form of a disk turning upon said hub and having a cutaway portion to be turned into register with said tenoned part to release the same; said tenoned member having on one side a shoulder to fit a seat formed upon the hub member, and said disk being formed to lock said shoulder against the hub member.

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Witnesses:

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