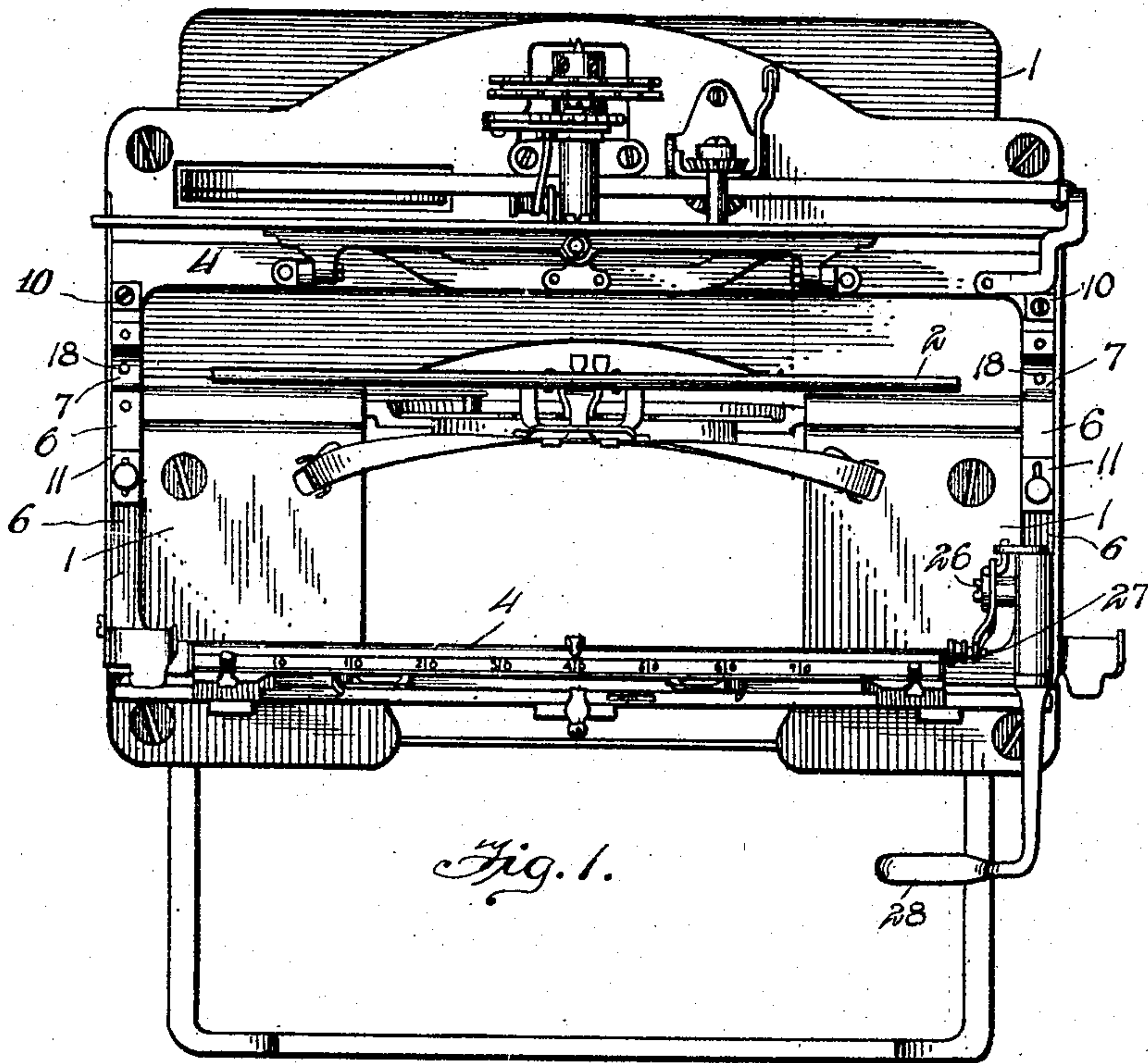


D. P. MOORE.  
 INTERCHANGEABLE PLATEN FOR TYPE WRITERS.  
 APPLICATION FILED MAR. 30, 1909.

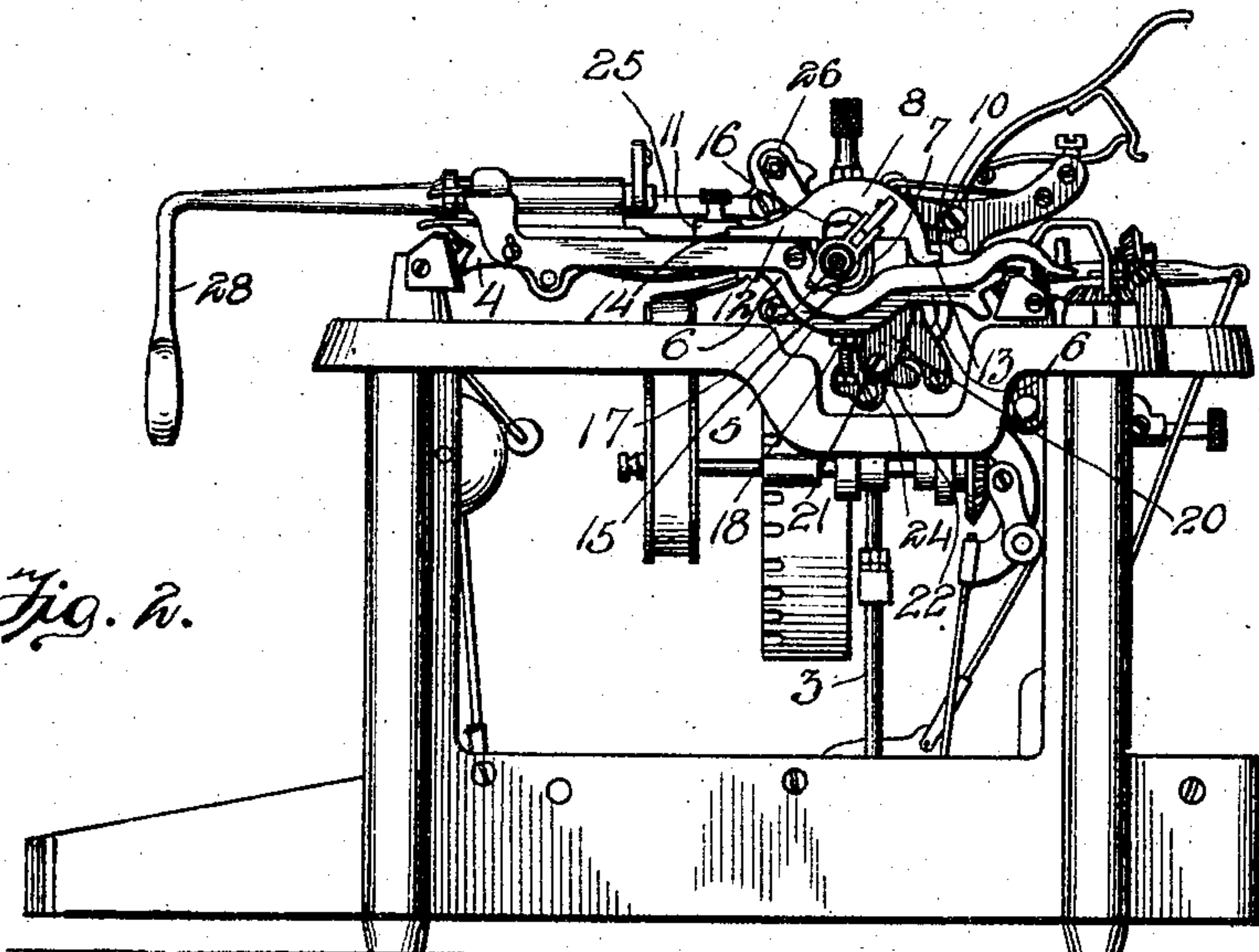
980,879.

Patented Jan. 3, 1911.

4 SHEETS—SHEET 1.



*Fig. 1.*



*Fig. 2.*

Witnesses  
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4 SHEETS—SHEET 2.

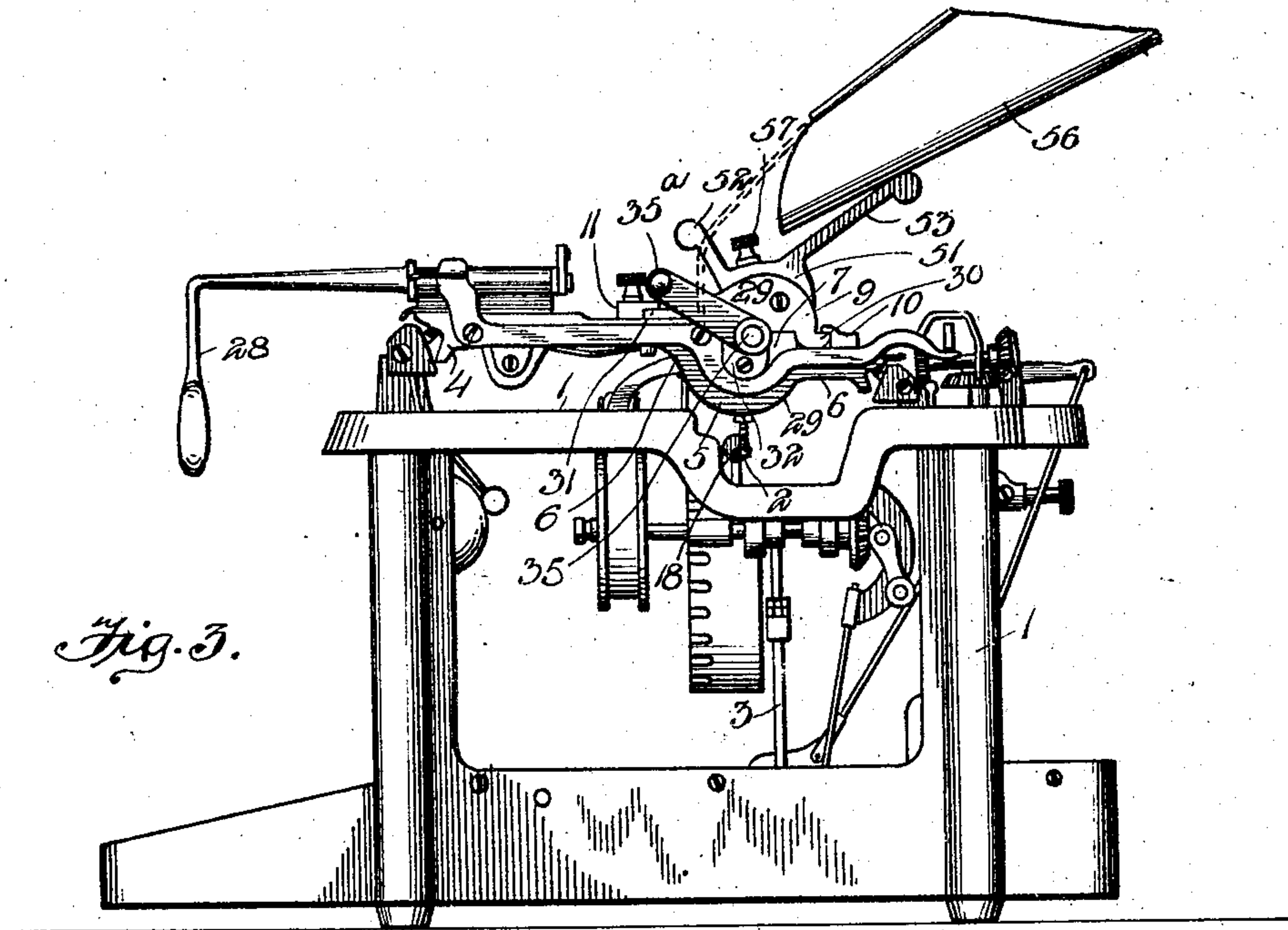


Fig. 3.

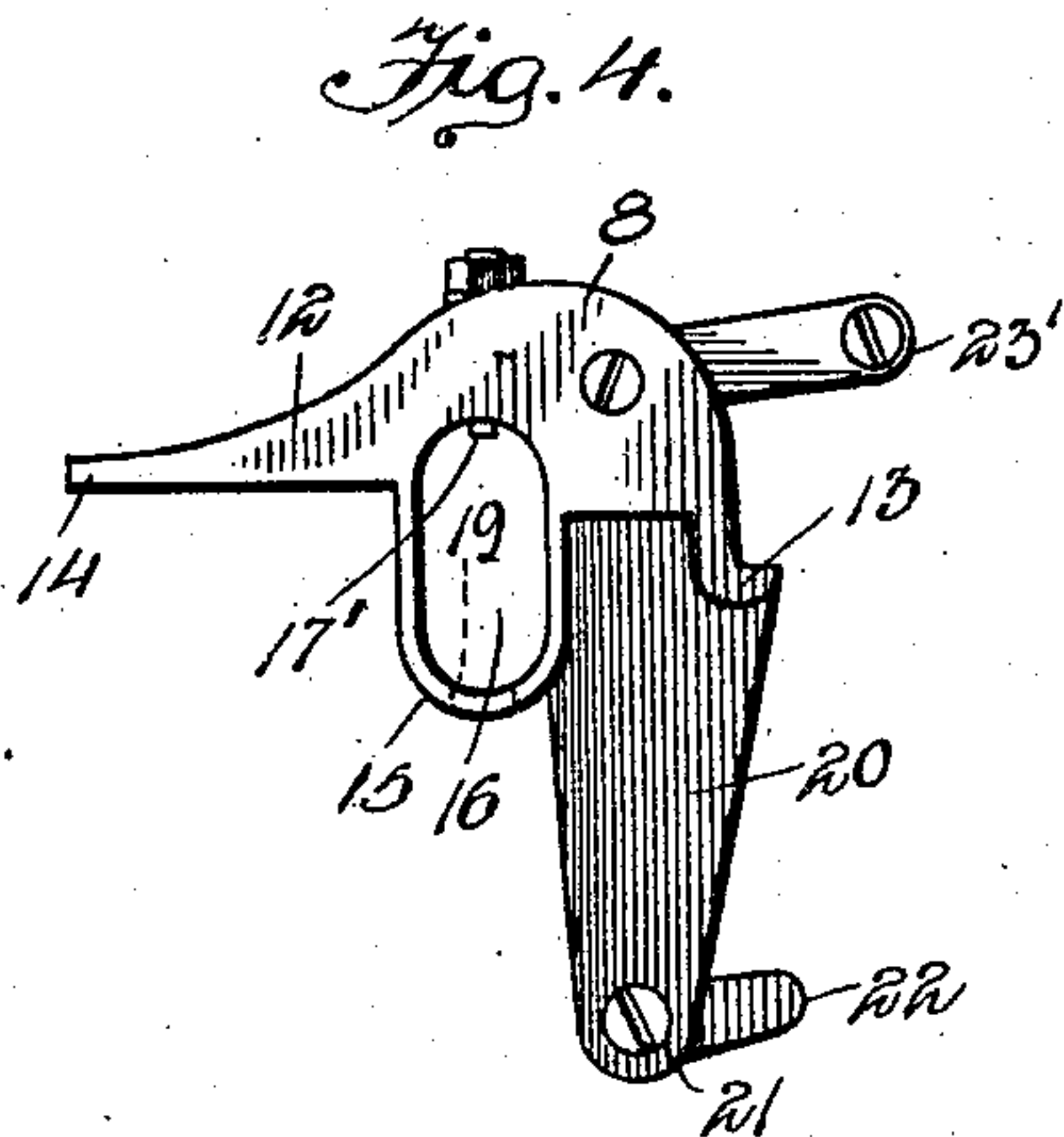


Fig. 4.

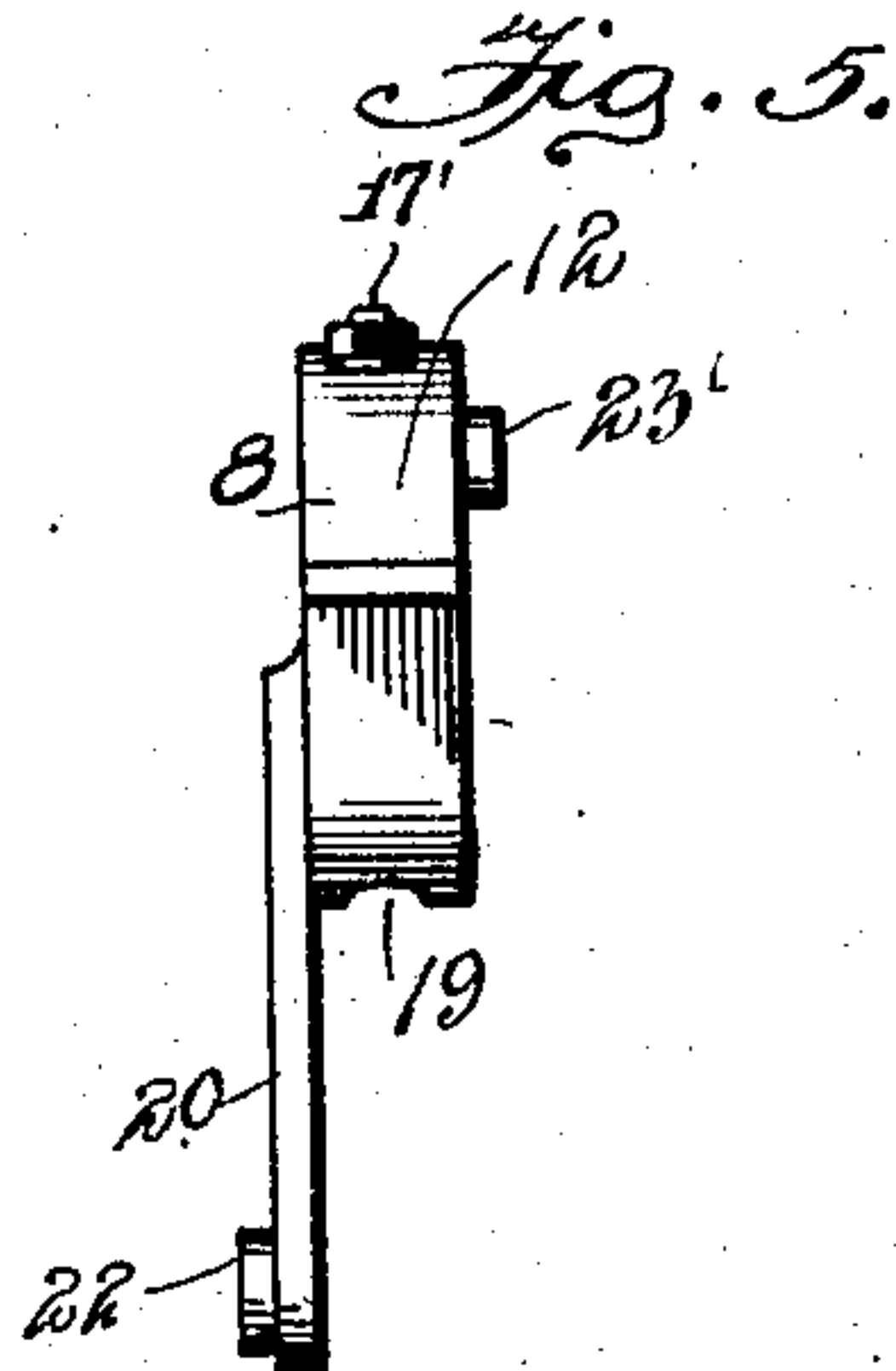


Fig. 5.

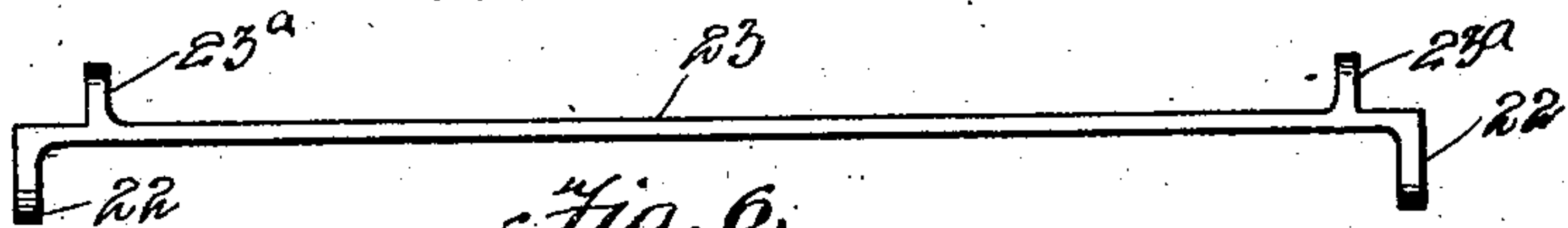


Fig. 6.

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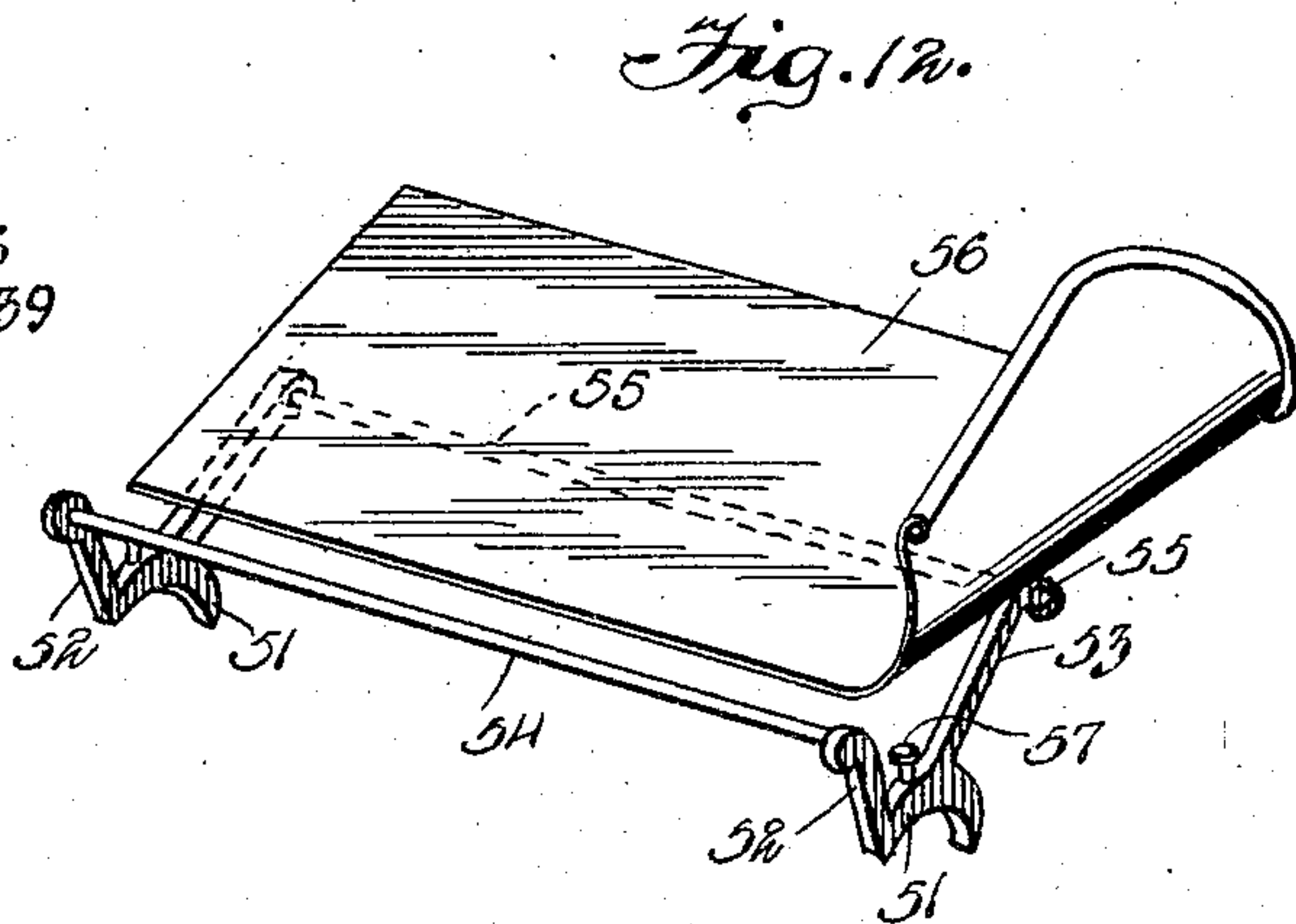
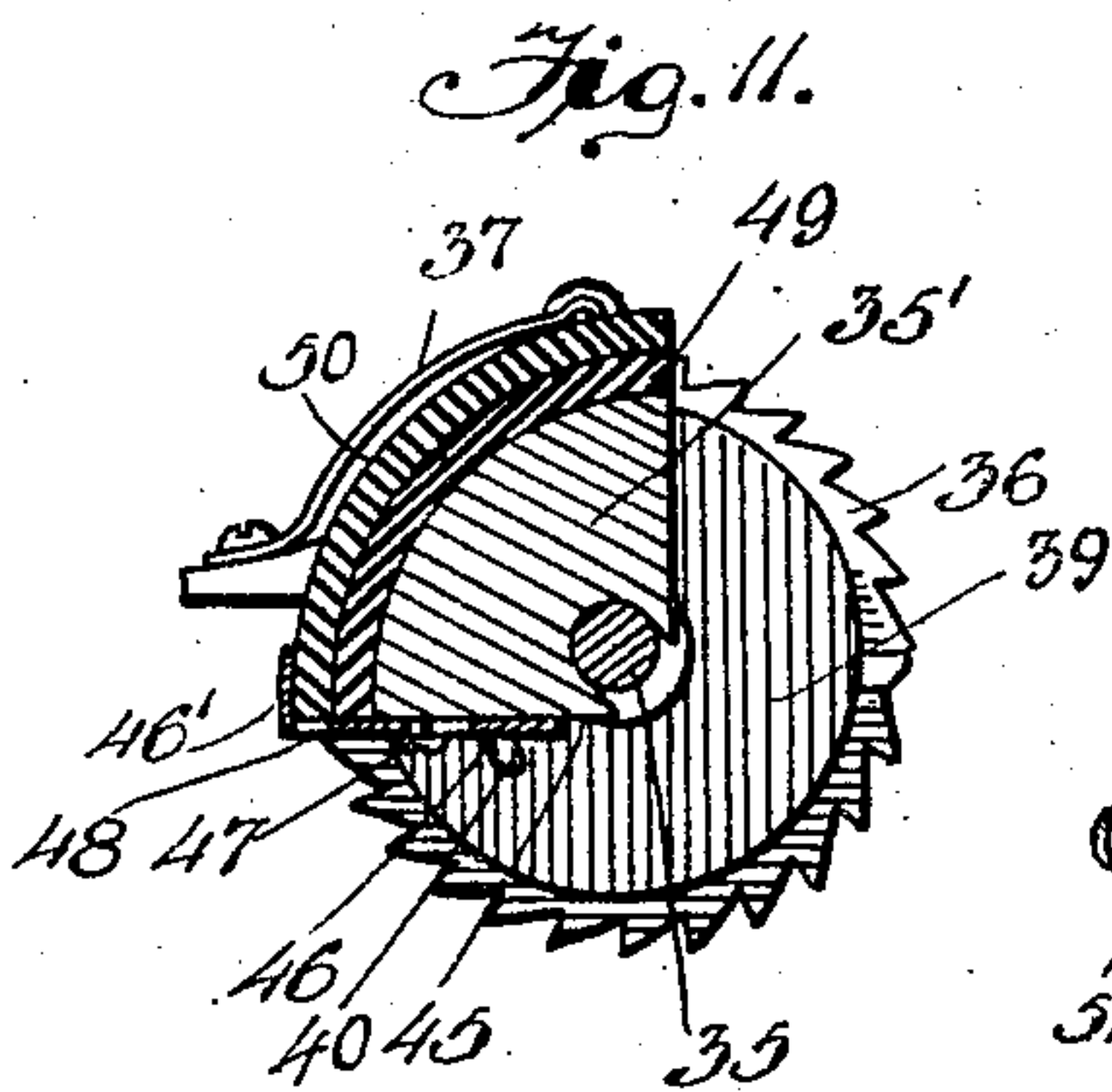
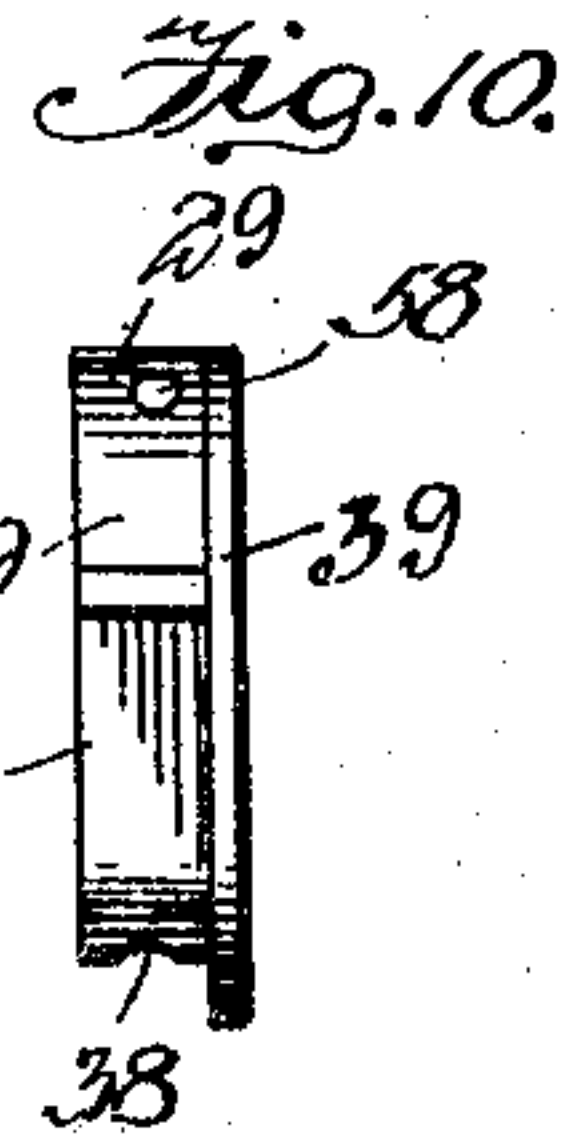
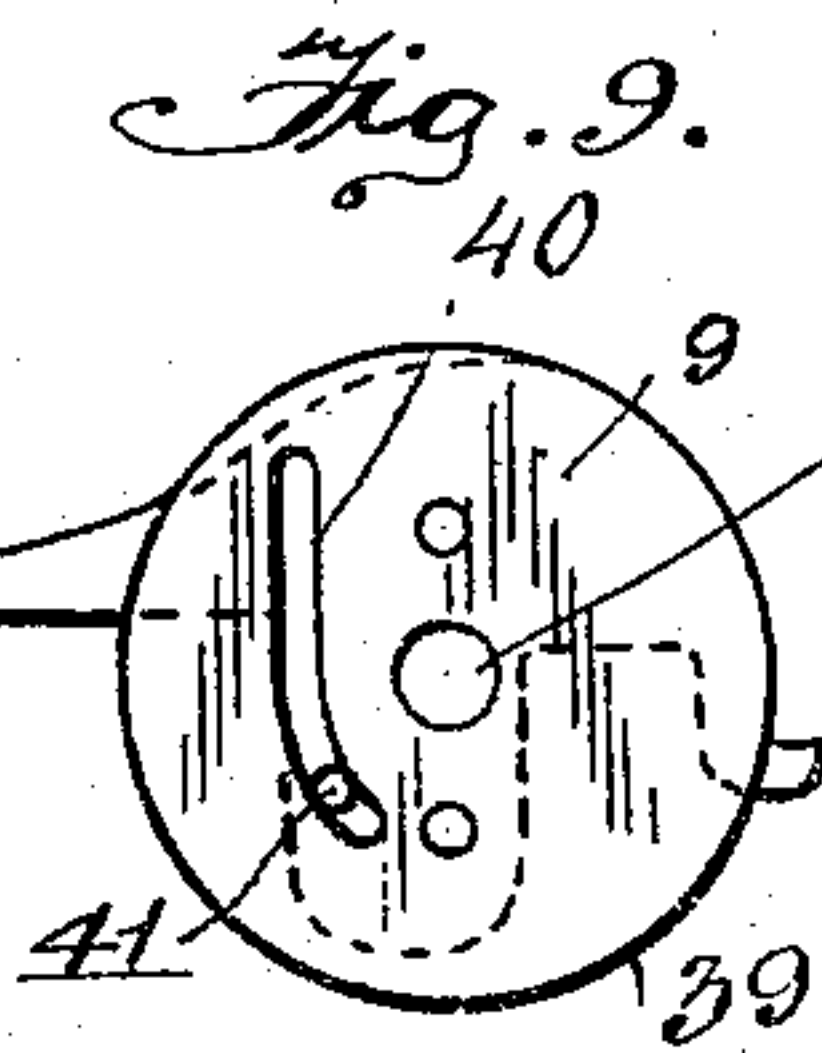
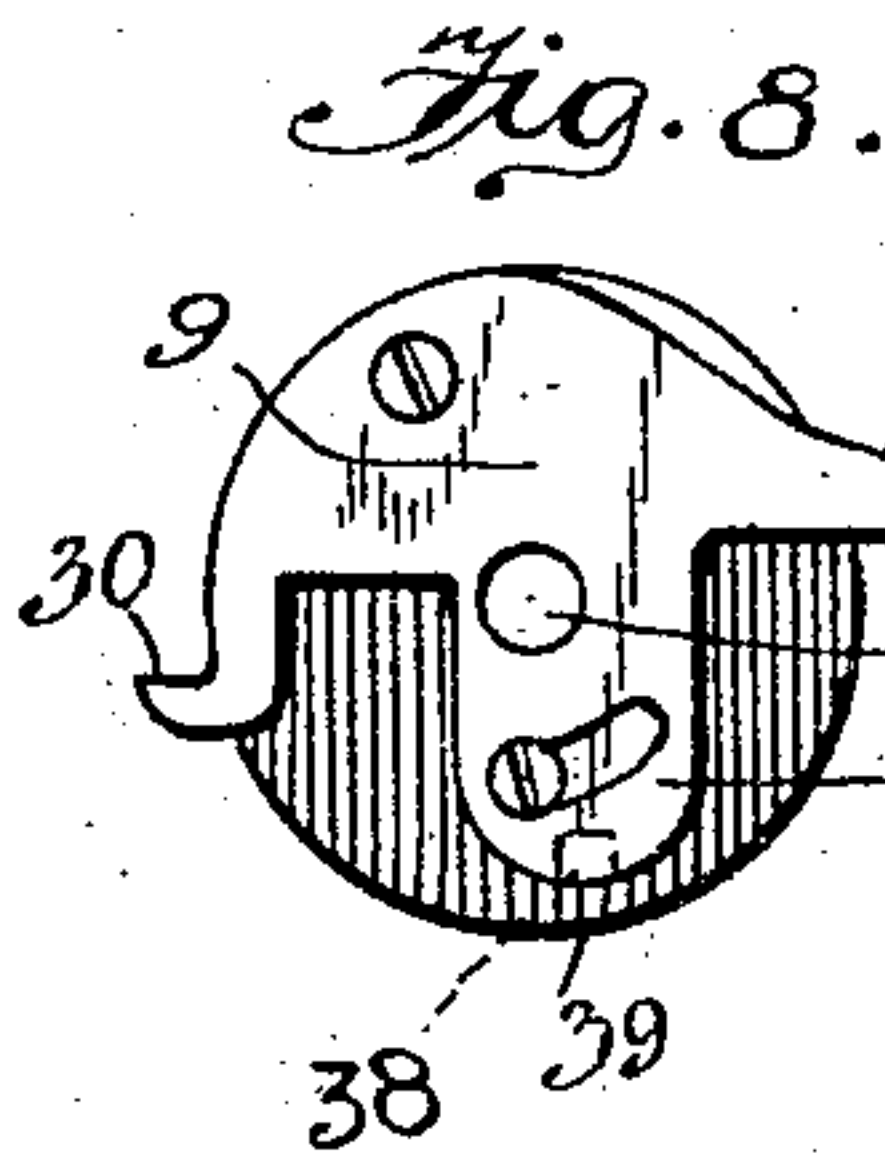
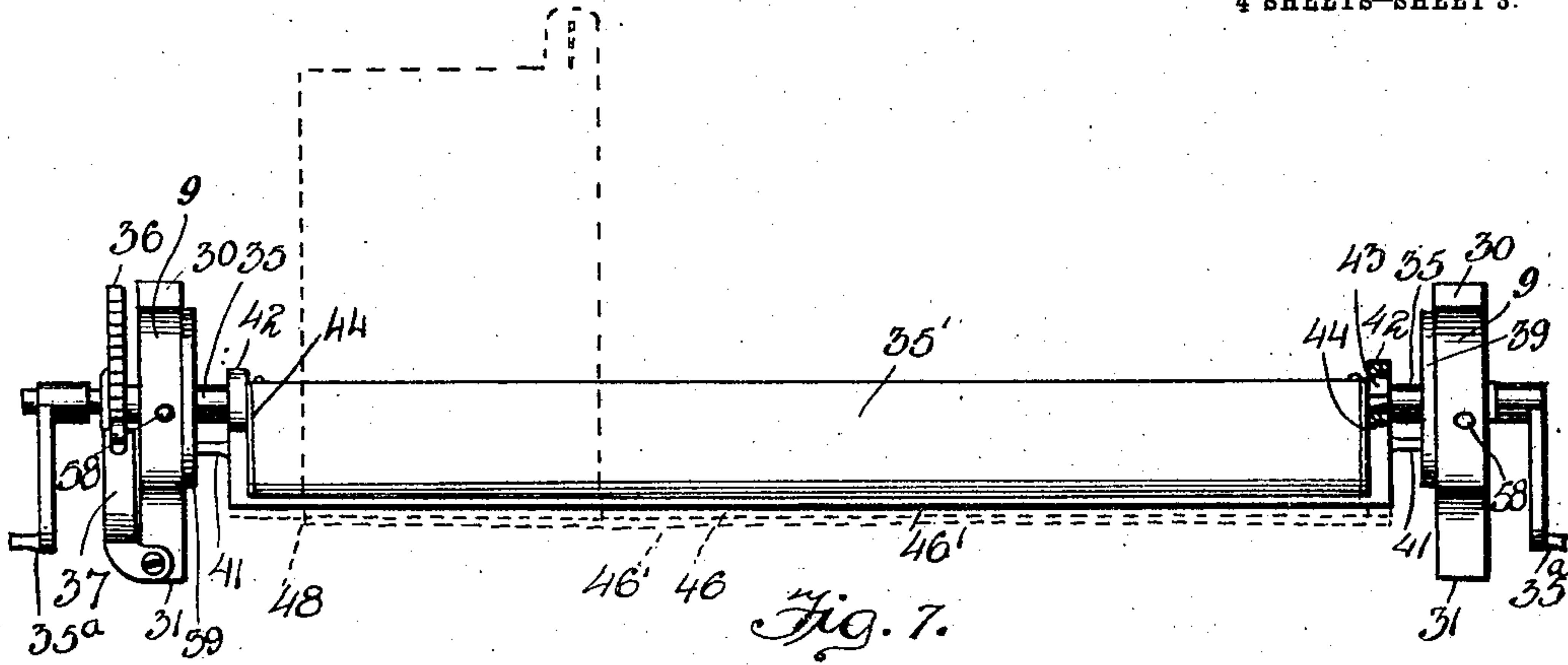
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4 SHEETS—SHEET 3.



Witnesses  
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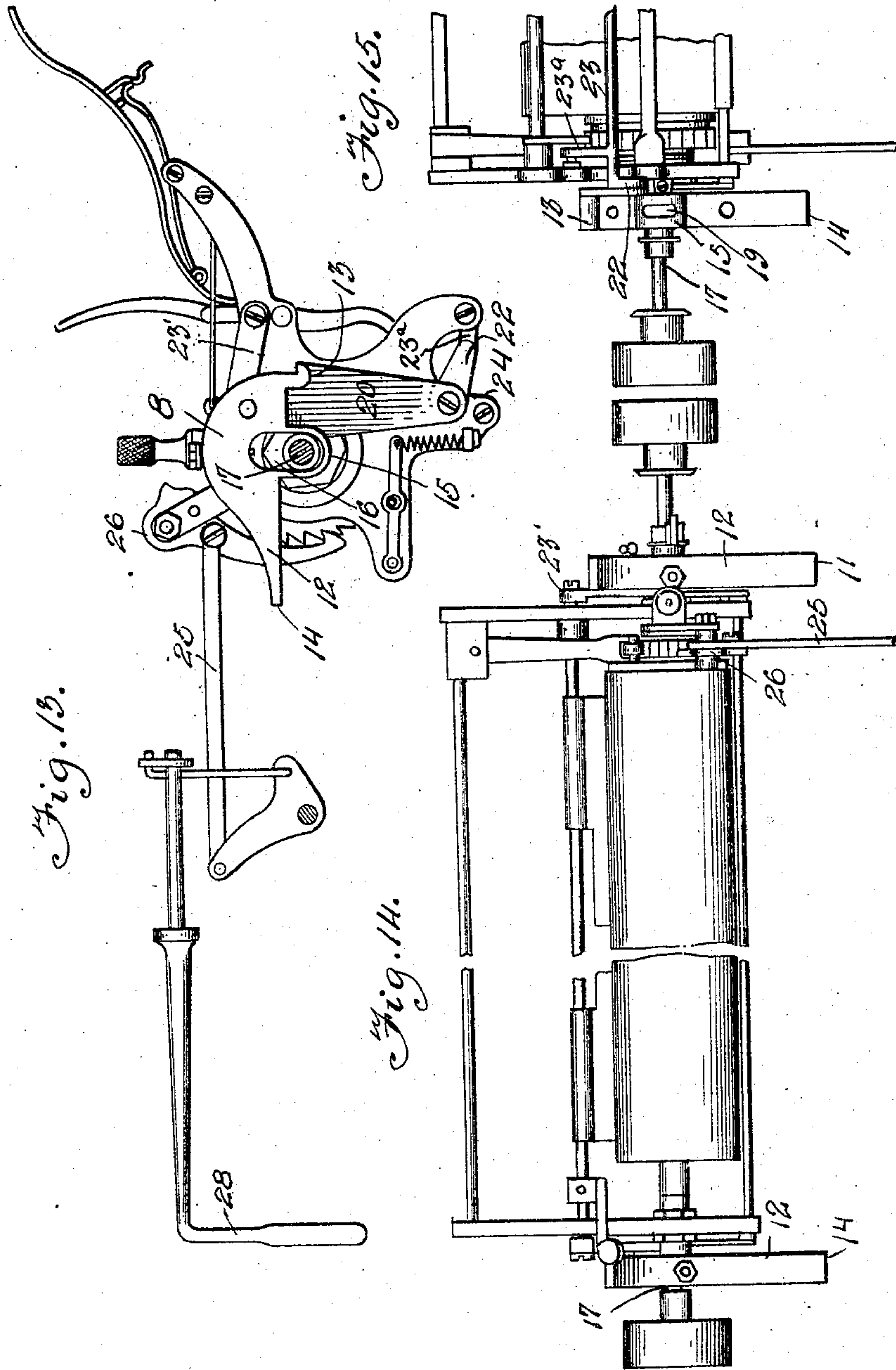


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4 SHEETS—SHEET 4.



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# UNITED STATES PATENT OFFICE.

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UNION TYPEWRITER COMPANY, OF ILION, NEW YORK, A CORPORATION OF NEW  
YORK.

## INTERCHANGEABLE PLATEN FOR TYPE-WRITERS.

980,879.

Specification of Letters Patent.

Patented Jan. 3, 1911.

Application filed March 30, 1909. Serial No. 486,652.

*To all whom it may concern:*

Be it known that I, DAVID PELTON MOORE, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Interchangeable Platens for Type-Writers, of which the following is a specification, reference being had therein to the accompanying drawing.

My present invention relates to an improved interchangeable platen for typewriters, the particular invention making it possible to quickly interchange a rotatable platen with a platen capable only of two movements toward and away from type presentation position and vice versa, the said last mentioned platen being adapted for use as a laundry marking or card printing platen. In applying said invention to a typewriting machine such as the Remington No. 10, or in fact any type of visible machine, I discovered that to make the invention practical, the tilting platen must be interchangeable with the ordinary writing platen, as now used; and this particular construction is the outcome of experiments to accomplish this result, it being demonstrated in practice that the change from the writing platen to the tilting platen or vice versa, can be accomplished by unskilled persons in less than one minute. In this instance, I provide a segmental platen having a forward and rearward tilting or oscillating movement, and a clamping device operated to clamp the article to the platen upon the forward movement, and to release upon the rearward movement of the platen.

To clearly set forth the features of interchangeability of the platens, attention is invited to the accompanying drawings, in which:—

Figure 1 is a top plan view of a typewriting machine with the platen removed. Fig. 2 is a side elevation of the carriage with the ordinary writing platen in position, one of the knobs being removed. Fig. 3 is a similar view with the marking platen in position. Figs. 4, 5 and 6 are detail views of the removable boxes of the writing platen. Fig. 7 is a top plan view of the marking platen with a cuff in marking position, said cuff being in dotted lines. Figs. 8, 9 and 10, are detail views of the left-hand removable box of the marking platen. Fig. 11 is a cross section through said platen illustrating the

operation of the clamp, and Fig. 12 is a detail perspective of the guide plate, its support and the guard rod. Fig. 13 is a side elevation of the writing platen removed with the spacing lever in operative position. Fig. 14 is a top plan view thereof, the platen being broken away to shorten the same, and Fig. 15 is a bottom plan view of one end thereof.

Referring to the drawings:—The numeral 1 designates the frame of the machine, and 2 the transverse rod operated upon by the shifting mechanism. The carriage 4 is mounted to travel transversely in both directions, and is provided with the enlargements 5, which depend from the sides 6, of the carriage and are provided with the alined sockets or receptacles 7, for the removable reception of the writing platen's removable boxes 8 or the marking platen's removable boxes 9. To the rear of these enlargements and upon the upper portion of the carriage, I provide the cleats 10, while upon the opposite side of the enlargements, I provide the adjustable and slidably mounted clamps 11, the purpose of which will presently appear.

By referring to Figs. 4 and 5, it will be seen that each of the removable boxes 8, consists of the support 12, whose rear end is provided with the hook 13, which removably engages one of the cleats 10, while the forward end 14 is reduced to fit between the reduced end of a clamp 11 and the upper face of the carriage frame, and that by means of this cleat 10 and clamp 11, the boxes 8 are removably mounted within the carriage. To insure the proper shift movement of the platen within the carriage, the support 12 has depending therefrom and carried thereby, the elliptical frame 15, provided with the elliptical opening 16, in which the shaft 17 of the platen is allowed a rise and fall, to shift the platen, the adjustable stop 17' carried by the support 12 limiting the upward movement of the platen, while the adjustable stop 18 carried by the enlargement 5, and projecting through the aperture 19 formed in the lower portion of the frame 15, limits the downward movement of the platen. Also carried by the support and projecting downwardly upon the inner rear side thereof, is the arm or plate 20, in whose lower end is journaled as at 21, the angled end 22, of the platen guiding rod 23, which is journaled by



means of the lugs or arms 23<sup>a</sup> to the frame 24 of the platen, the short levers 23', being pivoted to the boxes also, and thereby allows the complete writing platen to be removed from the carriage when the boxes 8 are removed. In order to complete the removability of the writing platen and its frame, the rod 25 of the spacing mechanism 26, is detachably connected as at 27 to the operating lever 28. This much constitutes the writing platen mechanism, and it will be seen that to remove the same from the carriage frame, it is simply necessary to detach the rod 25, release the clamps 11, and raise the platen by the knobs, giving the supports or boxes 8 a slight rear tilting movement.\*

The marking attachment, which it is now desired to install, is provided with the boxes 9, as clearly shown in Figs. 8, 9 and 10, and each consists primarily of the support 29, having the rear hook 30. These hooks removably engage the cleats 10 of the frame, while the forward ends 31 are engaged by the clamps 11. Carried by these supports 29 and adapted to fit snugly within the sockets of the enlargements 5, are the lugs 32, and formed in these lugs are openings 33, whose walls constitute bearings for the shaft 35, of the platen 35', which is preferably made segmental in cross section. Carried upon both ends of the shaft 35, are the operating handles 35<sup>a</sup>, while upon one end, between the handle and the boxing is keyed the retarding ratchet wheel 36, which is engaged by the spring detent or pawl 37 carried by the boxing. Upon the under side of each lug is provided the socket 38, which fits over and receives one of the lower adjusting stops 18, when the lugs are fitted and held within the sockets of the enlargements 5. The marking platen is not connected with the case shifting mechanism, as it is only desired to present the upper case, or capitals and numbers, to the material to be marked, and therefore the shaft 35 remains in the same relative position to its boxings and the carriage. Upon the inner faces of the boxings 9, I adjustably attach the disks 39, which are provided with the cam slots 40, in which fit and slide the terminals of the studs or pins 41, which project from and are carried by the arms 42. These arms 42 are provided with the elongated openings 43, which slidably fit upon the shaft 35 next to the platen supporting plates 44, and carried by these arms and also opposing the flat face 45 of the platen, is the clamping plate 46, which is also slidably connected to said face 45 by means of the screw and slot connection 47. By this means it will be seen that as the platen is tilted rearwardly, the pins 41 moving in the cam slots 40, will cause the arms 42 to move outwardly and thus cause the clamping plate to slide in the same direction, so that its

clamping right-angled lip 46' will move away from the platen and thereby provide a receptacle for the article to be marked. After the article is inserted in said receptacle, the platen is moved forwardly, the cam slots 40 operating upon said pins 41 to move the lip 46' toward the platen and thus clamp the article upon the platen and present it to type receiving position. In order to allow an article such as a collar or cuff to be marked higher up, I provide the slot 48, at the junction of the right angled clamping lip 46' and the plate 46, the collar or cuff being pushed through said slot before the platen is tilted forwardly to type receiving position.

I have found by experimenting that the surface of the platen is better adapted for marking various thicknesses or plies of articles, if made by using a base or layer of sponge rubber 49, carrying an outer face of hard or vulcanized rubber 50. By this means the sponge rubber can be depressed, and deadens or reduces the noise of striking type, while the rubber 50, offers a good writing support for either stiff or soft materials, and thus insures even printing.

As shown in Fig. 12, I provide the brackets 51, each one of which has the short forward arm 52 and the long rearward arm 53, the short arms being connected together by means of the guard rod 54, which assists in holding the article to be marked when stiff, snugly against the platen so as to insure an even impression of the type. The long arms are connected together by means of the rod 55, to which is removably connected the material guide plate 56. These brackets are removably secured to and carried by the boxing 9, by means of the set screws 57 which fit in the threaded sockets 58, of the boxings 9.

What I claim, as new, is:—

1. The combination with a platen, and its shaft, capable of a tilting or rotary movement, of boxings carried upon the shaft and removable therewith, a clamping plate carried by the platen, and co-acting means between the boxings and plate for operating the clamping plate when the platen is tilted or oscillated.

2. The combination with a typewriting machine, of a platen support, of a platen capable of two movements to and from type presentation position, means for clamping an article to the platen as the platen is moved toward type presentation position and to release the same when moved in the opposite direction, and a frame connected with the platen support and provided with an article guide and with a guard to engage the article as the platen is moved toward type receiving position, as shown and described.

3. The combination with a typewriting



machine, and a carriage, of a platen, a shaft also carried by the platen, a boxing carried by the shaft at each end of the platen, and co-acting means between the carriage and boxings for removably locking the boxings to the carriage.

4. The combination with a typewriting machine, and a carriage, of a platen, a shaft also carried by the platen, a boxing carried by the shaft at each end of the platen, co-acting means between the carriage and boxings for removably locking the boxings to the carriage, a clamping device slidably mounted upon the shaft at the end of the platen and capable of two movements to and away from the surface of the platen, and co-acting means carried by the clamping device and the boxings for operating the clamping device as the platen is moved.

5. The combination with a typewriting machine, and a carriage, of a platen, a cushioned elastic surface carried thereby, a shaft also carried by the platen and projecting beyond the ends thereof, a boxing carried upon said shaft at each end of the platen and in which said shaft may rotate, co-acting means carried by the carriage and boxings for removably locking the boxings to the carriage, a clamping device slidably mounted upon the shaft between the platen and the boxings and having its clamping portion opposed to the platen, and co-acting means carried by the clamping device and the boxings for operating the clamping device to clamp articles upon the platen or release the same.

6. The combination with a typewriting machine, and a carriage, of a platen, a shaft carried thereby and projecting beyond the ends thereof, a boxing carried upon said shaft beyond the ends of the platen, means to manually rotate said shaft and platen, co-acting means carried by the boxings and carriage for removably locking the boxings to the carriage, a clamping device slidably mounted upon the shaft between the ends of the platen and the boxings and having its clamping portion opposed to the face of the platen, and co-acting means carried by the clamping device and the boxings for limiting the oscillating movement of the shaft and platen and for operating the clamping device.

7. The combination with a typewriting machine, and a carriage capable of transverse movement, of a platen, a shaft carrying the

platen, a boxing carried near each end of the shaft and exterior of the platen, and in which said platen is capable of rotating, and co-acting means carried by the carriage and boxings for removably locking the boxings to the carriage.

8. The combination with a typewriting machine, and a carriage capable of transverse movements and provided with aligned sockets, of a shaft, a platen carried by the shaft, a boxing for journaling each end of the shaft and adapted to removably fit in the sockets of the carriage, means for locking the boxings to the carriage, and means for rotating the shaft and platen.

9. The combination with a typewriting machine, of a platen, the body portion of which is segmental in cross-section, an article receiving surface carried upon the curved surface of the body portion, a shaft carrying the platen, a pair of arms slidably mounted upon the shaft, a clamping plate having an upturned edge slidably mounted upon the lower flat surface of the platen and connected to said arms, journal boxings for the shaft, and co-acting means between the arms and boxings for operating the arms and clamping plate and for limiting the movements of the shaft and platen.

10. The combination with a typewriting machine, of a platen, an elastic cushioned article receiving surface carried by said platen and capable of depression when receiving an article to be marked, a shaft carrying said platen, means for securing the shaft in the carriage, a clamping device slidably mounted upon the shaft and having its clamping portion opposed to the cushioned surface of the platen and capable of two movements to and from said surface, the inward movement of the clamping device toward the surface at all times being the same, whereby the various thickness of articles to be marked will cause the cushioned surface to depress and allow the surface of the article to receive the type to at all times be in the same type presentation plane, means for operating the platen, and a single means for operating the clamping device and limiting the movements of the platen.

In testimony whereof I affix my signature in presence of two witnesses.

DAVID PELTON MOORE.

Witnesses:

GUY M. SPRING.

A. M. PARKINS.