

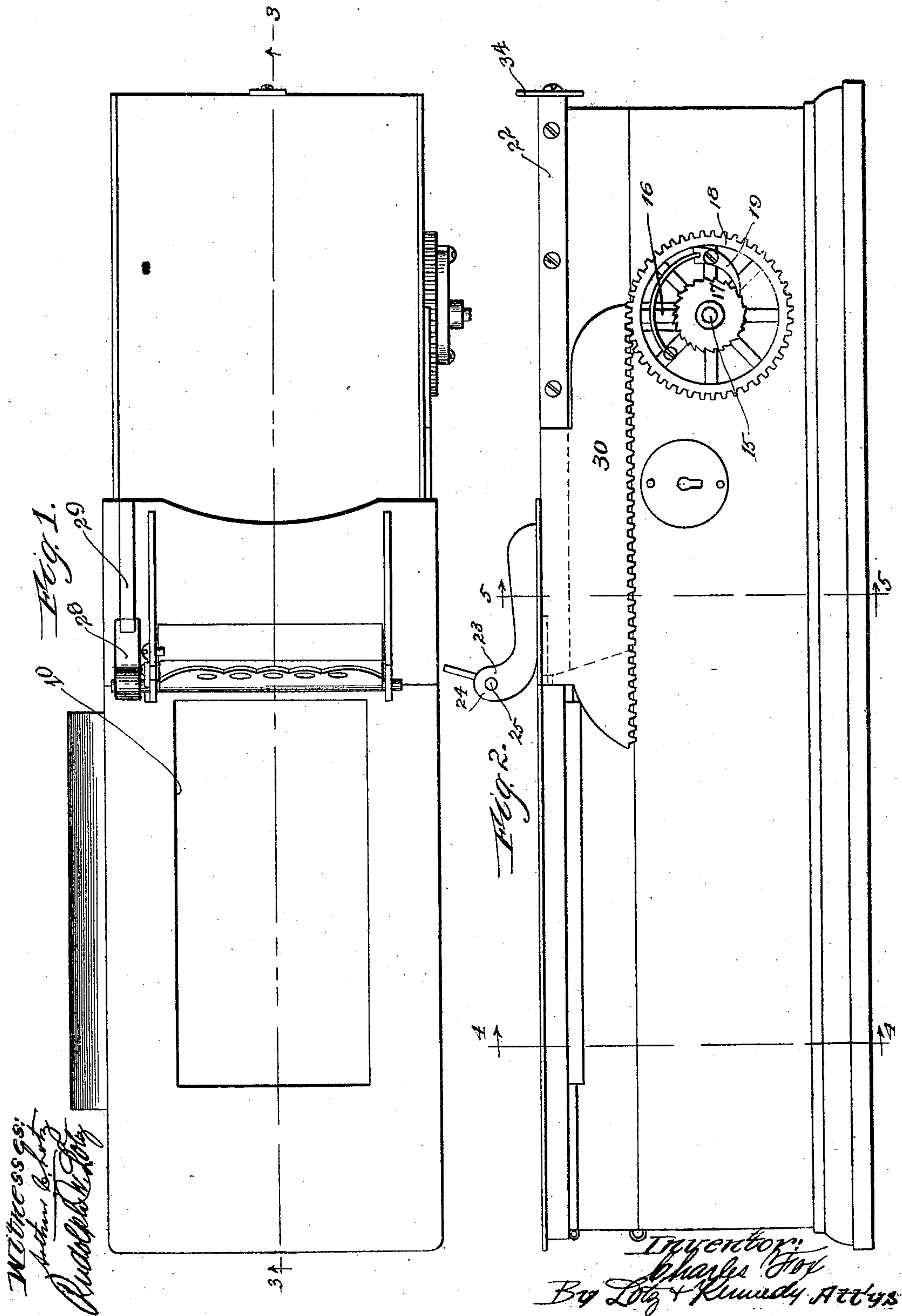
(No Model.)

2 Sheets—Sheet 1.

C. FOX.  
AUTOGRAPHIC REGISTER.

No. 502,924.

Patented Aug. 8, 1893.



C. FOX.  
AUTOGRAPHIC REGISTER.

No. 502,924.

Patented Aug. 8, 1893.

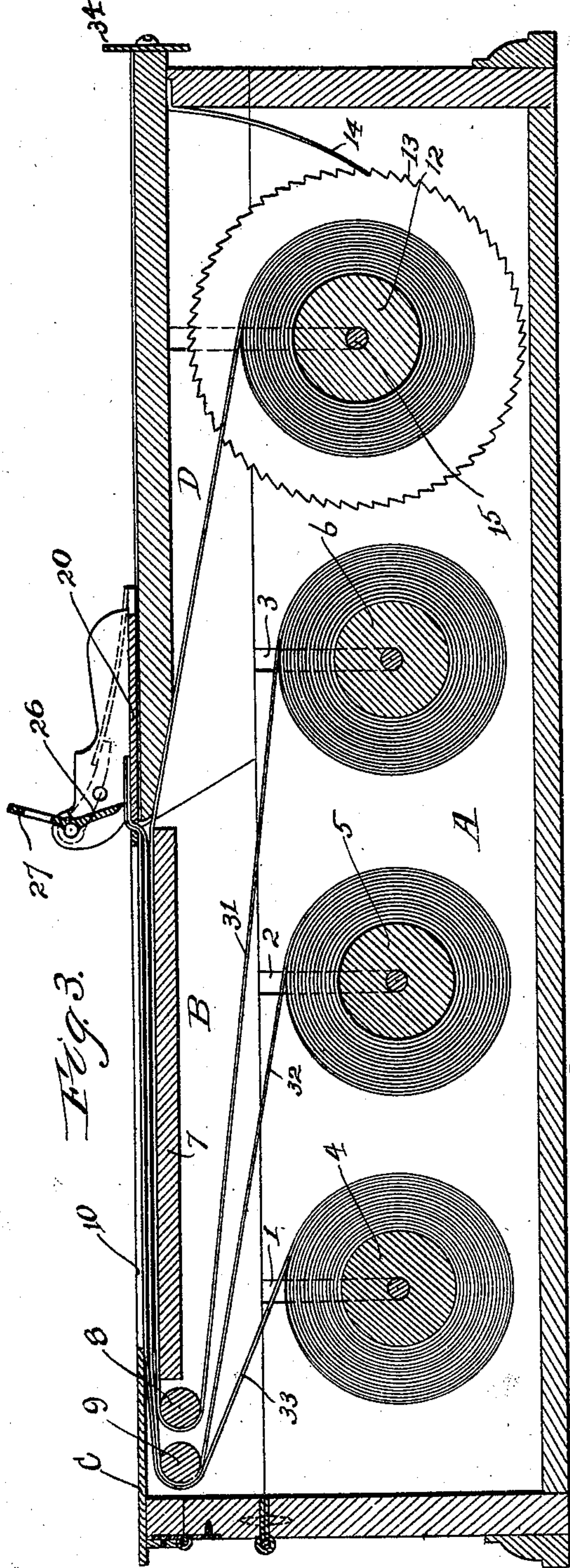


Fig. 3.

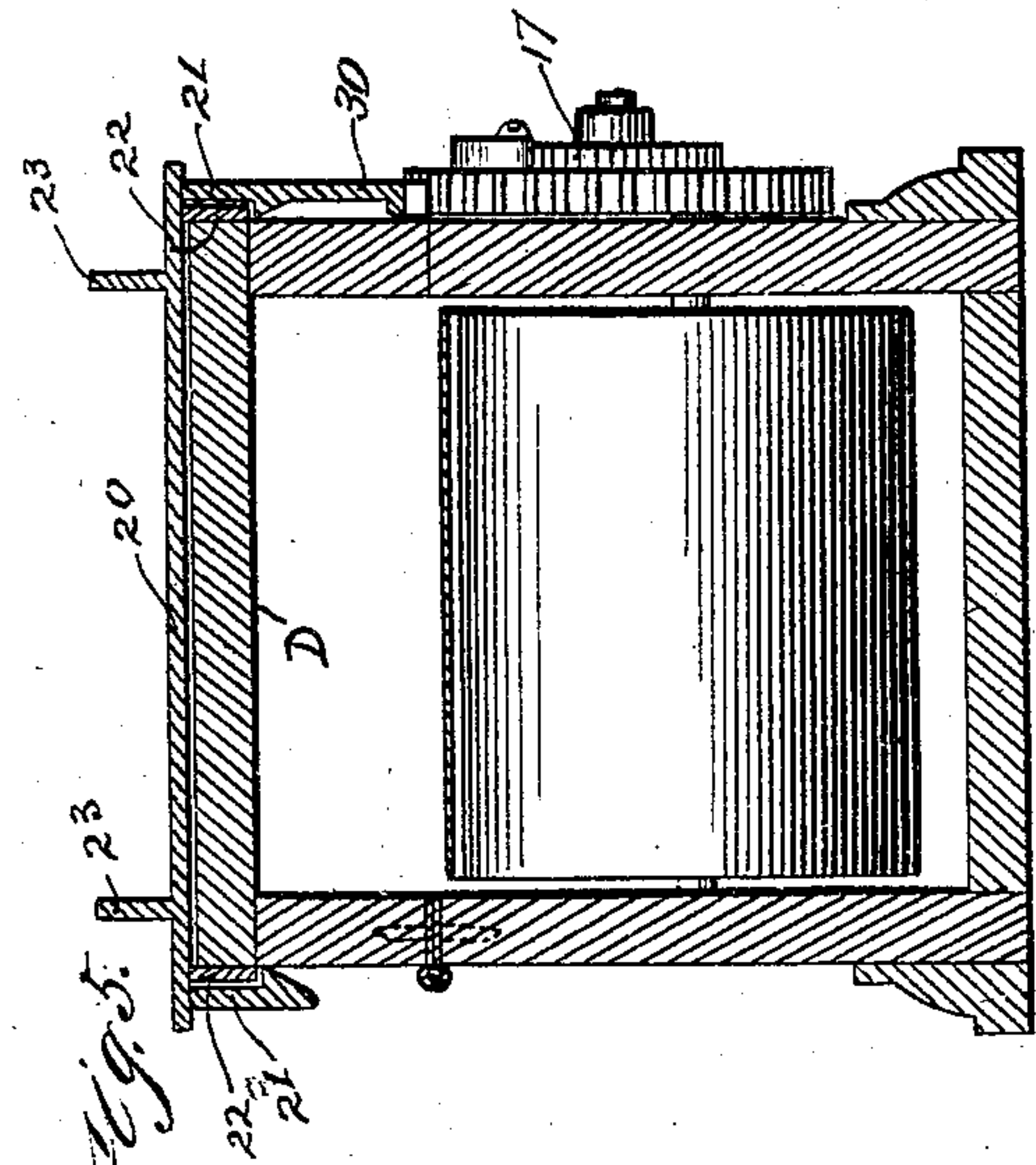


Fig. 5.

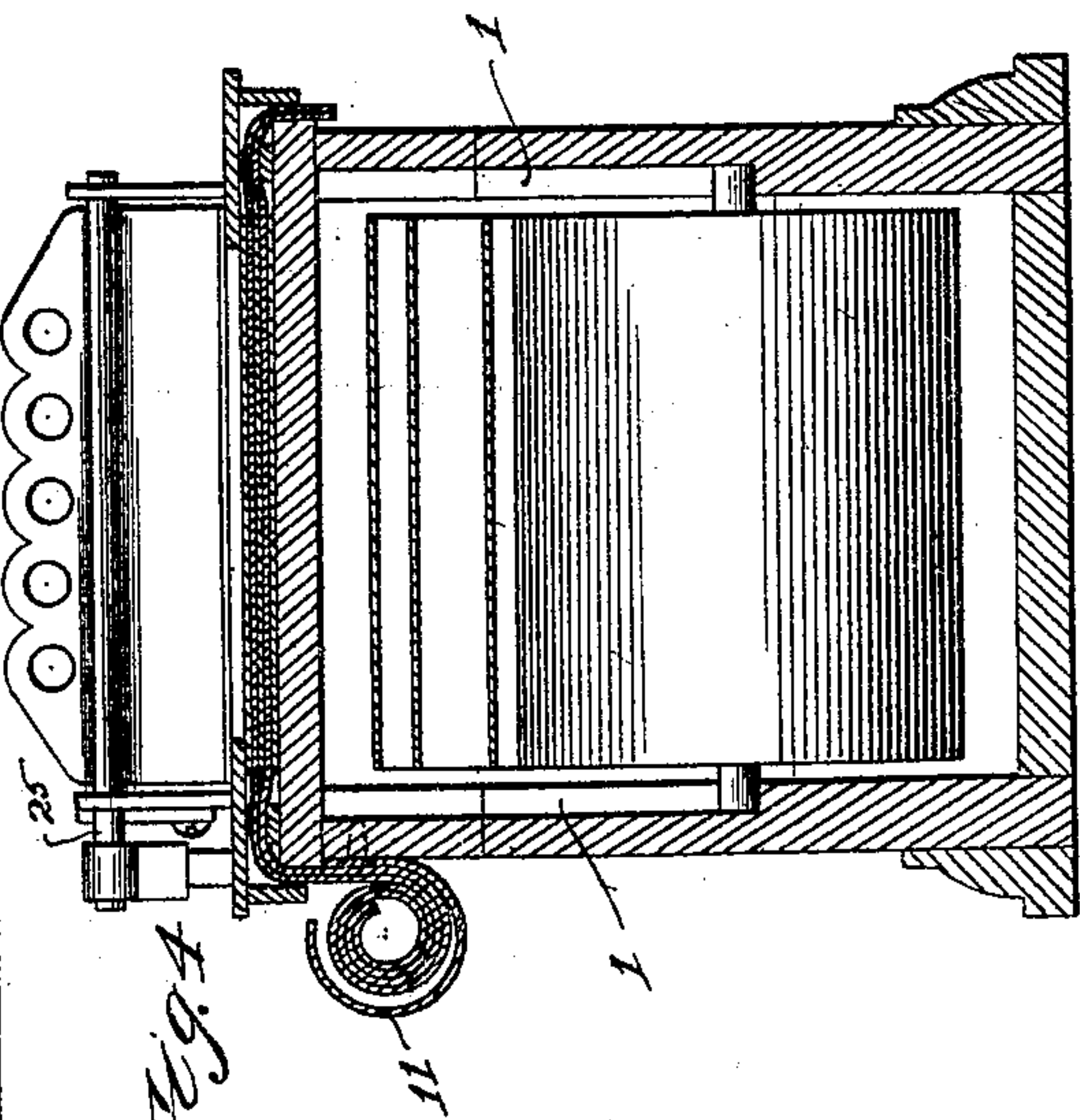


Fig. 4.

Witnesses:  
*Arthur L. Lutz*  
*Rudolph W. Lutz*

Inventor:  
*Charles Fox*  
By *Lutz & Kennedy*  
*Attys*



# UNITED STATES PATENT OFFICE.

CHARLES FOX, OF HINSDALE, ILLINOIS.

## AUTOGRAPHIC REGISTER.

SPECIFICATION forming part of Letters Patent No. 502,924, dated August 8, 1893.

Application filed April 1, 1893. Serial No. 468,743. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES FOX, a citizen of the United States, residing at Hinsdale, in the county of Du Page and State of Illinois, have invented certain new and useful Improvements in Autographic Registers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a novel construction in autographic registers of that class in which two or more strips of paper with a manifolding sheet between them are passed over a plate to receive the impression and then are advanced and one or more torn off, while the others are retained within the device as a permanent record.

The object of this invention is to provide an autographic register of this construction that will be simple and durable, inexpensive to manufacture and efficient in operation.

The invention consists in the features of construction and combinations of parts hereinafter fully described and specifically claimed.

In the accompanying drawings illustrating my invention,—Figure 1 is a top plan view. Fig. 2 is a side elevation. Fig. 3 is a longitudinal section on the line 3—3 of Fig. 1. Fig. 4 is a cross section on the line 4—4 of Fig. 2. Fig. 5 is a cross section on the line 5—5 of Fig. 2.

Referring now to said drawings, A indicates the box or casing which is provided with three sets of guides 1, 2, and 3 to receive the trunnions of the paper holding rollers 4, 5 and 6. In the instance illustrated I have shown an autographic register in which three slips of paper receive impressions, one of which is wound up again inside of the machine while two are torn off, although it will be understood that the number of paper strips or slips can be varied without departing from the spirit of my invention.

The casing A is provided with a cover that is made in two sections, both of which are hinged to the casing and one of which serves as the platen upon which the writing is made while the other serves as a slide for the mechanism that unwinds the strips of paper from their rollers.

The cover B is located over the rear end portion of the casing A and carries the platen 7 that extends only partially to the rear of the cover B to permit the insertion of two guide rollers 8 and 9 between the sides of the cover E over which the strips of paper from the paper holding rollers are led.

The cover B is hinged at its lower rear edge to the rear end of the casing A, as clearly shown in Fig. 3. A plate C is hinged at its rear edge to the cover B and is provided with an opening 10 that is located over the platen 7, as clearly shown in Fig. 1. To one side of the cover D is located a curved bracket 11 to receive the manifolding paper, the ends of which are carried up and over the platen 7 upon which the paper rests.

In the forward end of the casing A is located a take-up roller 12 having a toothed wheel 13 that is engaged by spring 14 to prevent the accidental rotation thereof. The shaft 15 of the said take-up roller 12 passes through a slot 16 in the side of the casing and is provided with a ratchet wheel 17 rigidly secured thereto and with a gear wheel 18 loosely mounted thereon and provided with a ratchet 19 engaging said ratchet wheel 17 to cause the said shaft 15 to move when the gear wheel is turned in one direction, but which will allow the said shaft 15 to remain immovable when the gear wheel 18 is turned in an opposite direction. Over this end a cover D is located which is hinged at one side to the side of the casing, as shown in Fig. 5, and which ends a little short of the front edge of the platen 7 of the cover B to provide a small opening between said parts. The said cover D provides a slide for the sliding actuating devices mounted upon the said cover D and which serve to carry the strips forward and unwind them from their rollers, and at the same time to wind one of the strips upon the take-up roller 12. The said actuating devices consist of a clutch suitably mounted upon a sliding plate 20 located to slide upon the said cover D and provided with downwardly projecting flanges 21 that engage the lower edges of guide plates 22 on the sides of the cover D. The clutch carrying plate 20 is provided at its sides with two ears or projections 23 that are provided at their upper ends with a suitable opening 24 to receive the pivot 25 of the clutch blade 26.



Said clutch blade 26 is rigidly mounted upon its pivot and extends in a slightly inclined direction from the pivot forwardly toward the plate 20. Above the pivot 25 said clutch blade  
 5 is provided with a handle 27 that extends forwardly and upwardly, while the pivot 25 extends to one side of the bearing ears 23 and is provided with an arm or projection 28 that is engaged by a spring 29 that presses upon the  
 10 arm and serves to hold the clutch blade 26 against the upper face of the plate 20 under tension. It will thus be seen that the plate 20 can be slid back and forth on the cover D by means of the handle 27, and that when it is  
 15 being moved forwardly by pressure on the handle 27 such pressure will also serve to keep the clutch blade 26 in engagement with the plate 20, but that when the plate 20 is to be moved backwardly the pressure upon the han-  
 20 dle 27 will serve to swing it against the action of the spring 29 upon the arm 28 and thus will lift the clutch blade 26 from the plate 20. The said plate 20 on the side of the casing adjacent to the gear wheel 18 is provided with  
 25 a toothed rack 30 that intermeshes with said gear wheel and serves to turn the same when the plate 20 is reciprocated.

The parts being constructed and arranged as above set forth, the operation is as follows:  
 30 The strip of paper 31 from the paper holding roller 6 is first led around the guide roller 8 and across the platen 7, and then down, and is fastened to the take-up roller 12. The other strips of paper 32 and 33 are carried around  
 35 the guide roller 9 and across the platen and then their ends are inserted between the ears 23 upon the plate 20 sufficiently to be engaged by the clutch blade 26, as shown in Fig. 3. The manifolding paper is, of course, arranged  
 40 in the usual manner and the hinged plate C closed down upon it. The device is now ready for use. After an impression has been made upon the top sheet 33, which impression is of course transferred to the strips 32 and 31, the  
 45 operator grasps the handle 27 and moves the plate 20 forward. By so doing the two strips 33 and 32 are carried forward and unwound from the rollers 4 and 5 by reason of the clutch 26 holding them against the plate 20,  
 50 while at the same time the rack 30 upon said plate 20 rotates the gear wheel 18 and also the shaft 15 to turn the take-up roller 12 which winds the strip 31 thereon, as will be obvious. The operator then moves the plate 20 back-  
 55 wardly by a backward pressure on the handle 27 which slightly lifts the clutch blade 26 and allows the said plate 20 to move backwardly to its original position without interfering with the strips 32 and 33 which easily  
 60 pass between the clutch blade 26 and plate 20. When the clutch device has been returned to its original position and pressure removed from the handle, it again engages the strips of paper, as shown, and then by  
 65 lifting and pulling upon the advanced portions of the strips 33 and 32 they can be

torn along the line where they are held by the blade 26. It will be noted that when the plate is moved backwardly by reason of the pawl and ratchet connection between the gear  
 70 wheel 18 and said shaft 15, said shaft will not be rotated. A stop 24 is secured at the forward end of the cover D and serves to limit the forward movement of the plate 20.

It will be seen that when the strips are torn  
 75 off, they are torn along the forward edge of the blade, and that the remaining edge portions of the strips remain clutched between the blade and the plate, so that when the sliding actuating devices are again moved forward  
 80 they will carry the strips along.

I claim as my invention—

1. In an autograph register, the combination with the casing having the paper-holding rollers and the take-up roller, of sliding  
 85 actuating devices mounted upon said casing and geared to said take-up roller to actuate the same and having a clutch to hold the paper slips of the paper-holding rollers, substantially as described.

2. In an autograph register, the combination with a casing having paper-holding rollers and a take-up roller, of sliding actuating  
 90 devices mounted upon the casing and geared to said take-up roller and carrying a clutch blade to hold the slips from one or more of the paper-holding rollers, substantially as described.

3. In an autograph register, the combination with a casing having paper-holding rollers, and a take-up roller, of sliding actuating  
 100 devices mounted upon the casing and geared to said take-up roller and consisting of a plate having a pivoted clutch blade yieldingly held against said plate, substantially as described.

4. In an autograph register, the combination with a casing having paper-holding rollers and a take-up roller, of sliding actuating  
 105 devices mounted upon the casing and geared to said take-up roller and consisting of a plate having a clutch blade pivoted upon projections thereon and provided with a handle and yieldingly held against said plate, substantially as described.

5. In an autograph register, the combination with a casing having paper-holding rollers and a take-up roller, of sliding actuating  
 115 devices mounted upon the casing and geared to said take-up roller, and consisting of a plate having a clutch blade pivoted upon projections on the plate and provided with a handle, an arm or projection 28 upon said clutch blade, and a spring bearing against said arm or projection to hold the blade against the plate, substantially as described.

6. In an autograph register, the combination with the casing having the paper-holding rollers, a take-up roller, and a gear wheel geared  
 125 to said take-up roller to cause said take-up roller to revolve with said gear wheel in one direction only, of sliding actuating devices mounted upon the casing and geared to said  
 130



gear wheel and carrying a clutch blade yieldingly held against the plate of said actuating devices, substantially as described.

7. In an autograph register, the combination with the casing, having the paper-holding rollers, the take-up roller, a gear wheel mounted upon the shaft of said take-up roller and geared to the same by a pawl and ratchet connection, of sliding actuating devices mounted  
10 upon the casing and having a rack to engage

said gear wheel and provided with a clutch blade yieldingly held against a plate of said sliding actuating devices, substantially as described.

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

CHARLES FOX.

Witnesses:

RUDOLPH W. LOTZ,  
E. J. BOILEAU.