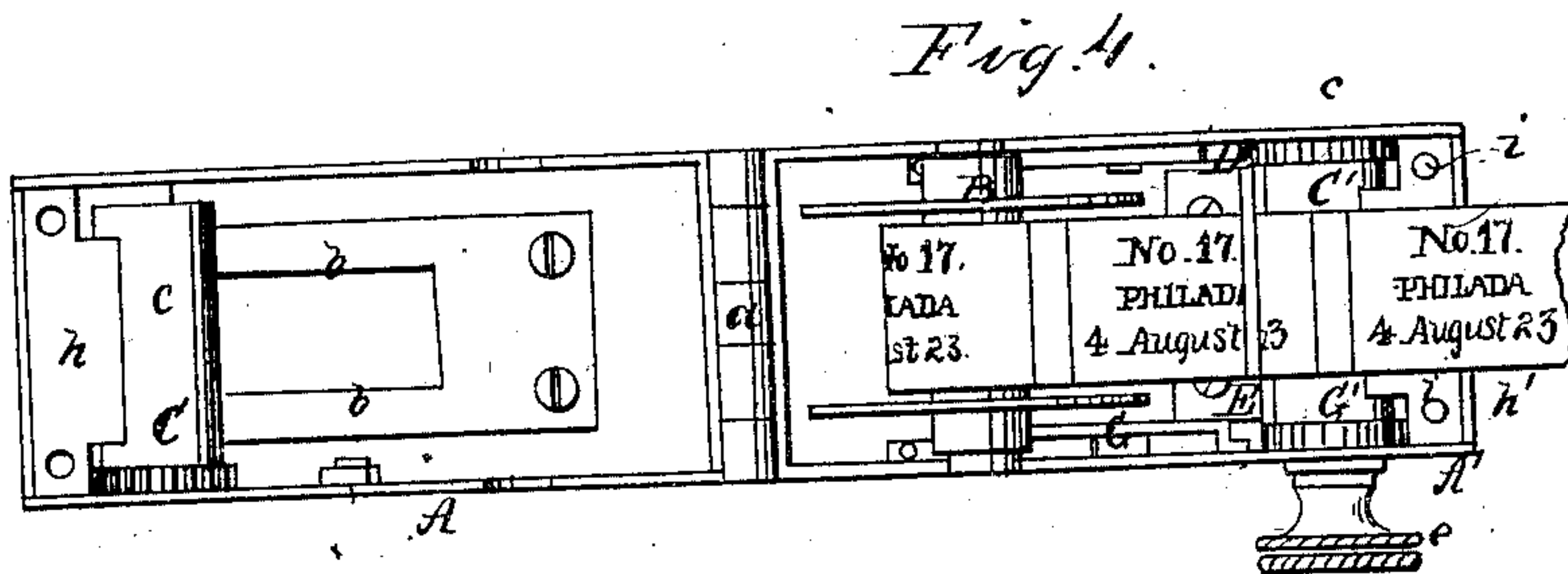
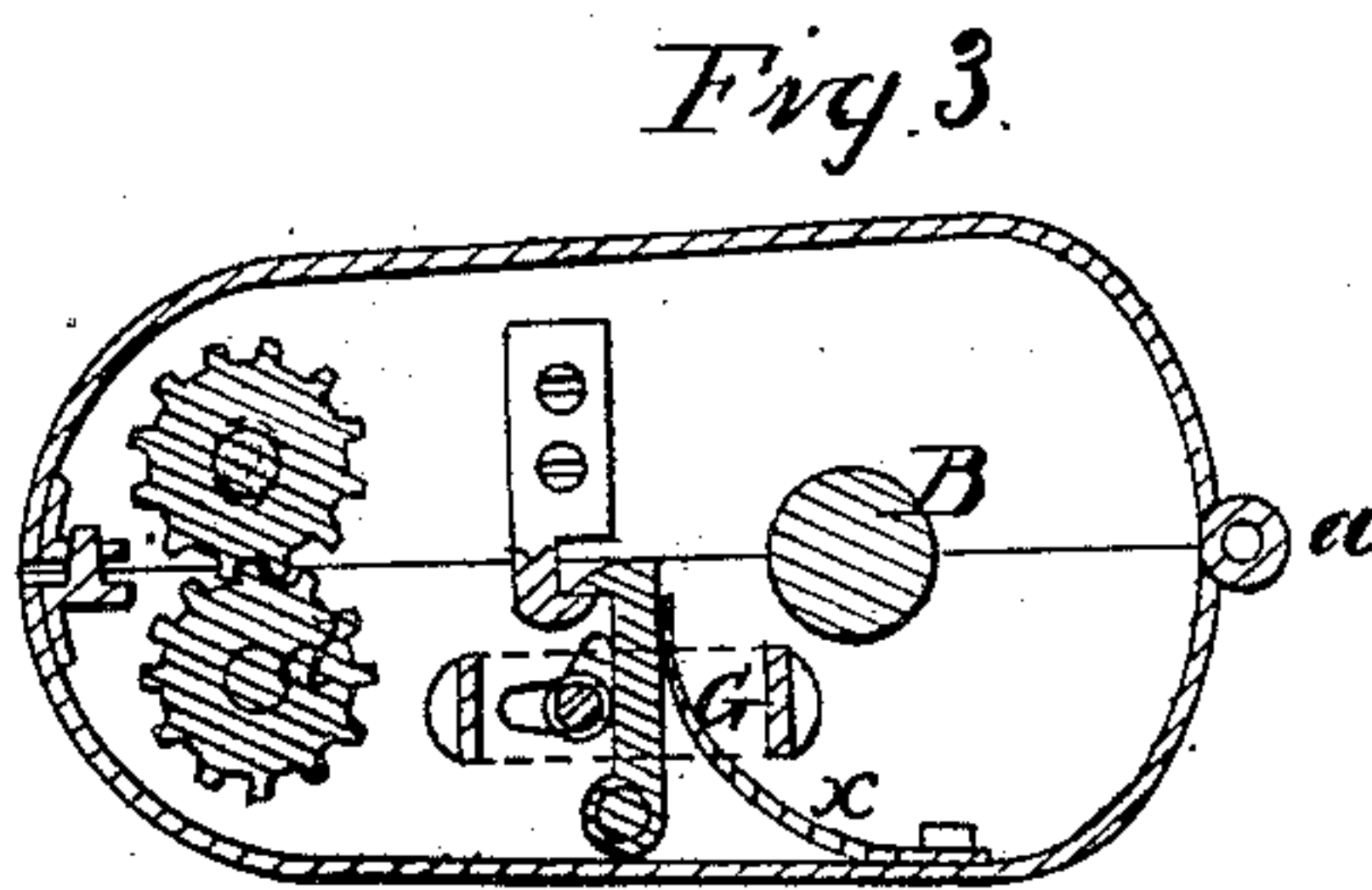
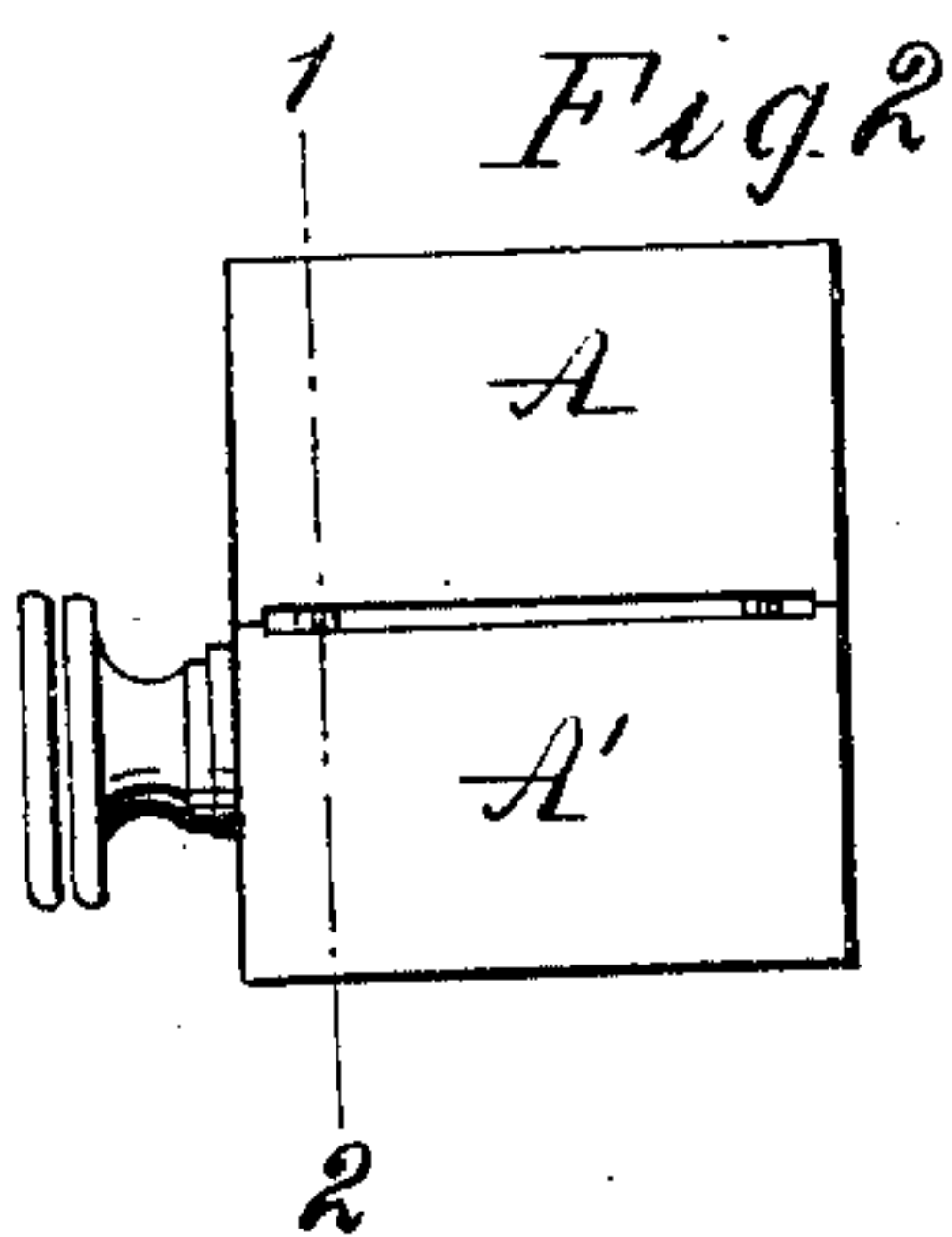
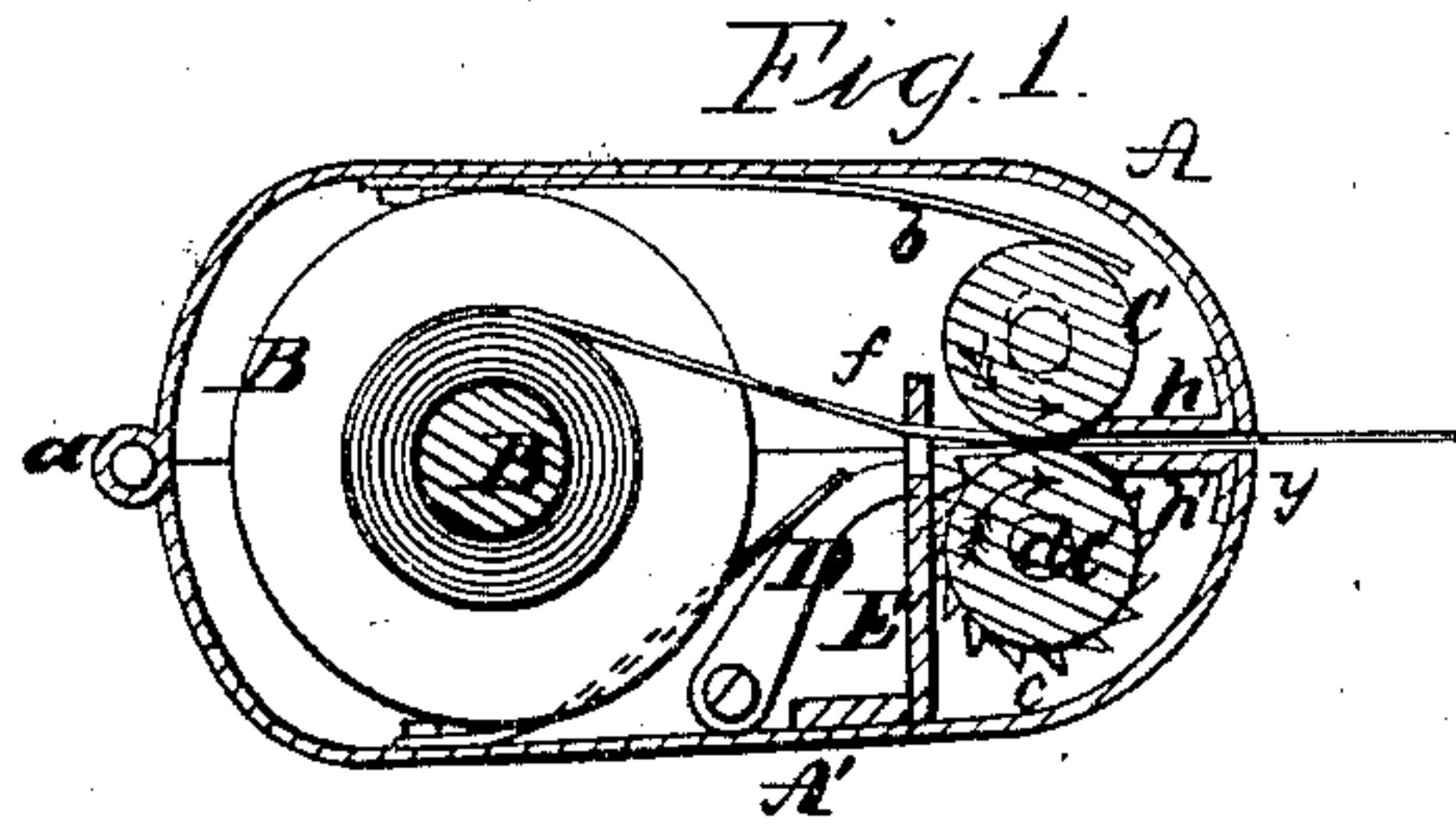


W. Helffricht.
Passenger Register

No 63245.

Patented Mar. 26. 1867.



Witnesses

Wm. Albert Stiel,
S. Ke. Thorne & Co.

Inventor.

W. Helffricht
By his Atty
H. H. H. H.

United States Patent Office.

WILLIAM HELFFRICHT, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 63,245, dated March 26, 1867.

IMPROVED PASSENGER REGISTER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM HELFFRICHT, of Philadelphia, Pennsylvania, have invented an Improved Passenger Register; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon.

My invention consists of certain improvements, fully described hereafter, in the passenger register for which Letters Patent were granted to me on the eighth day of January, A. D. 1867.

In order to enable others to make and use my invention I will now proceed to describe its construction and operation, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a sectional view of the passenger register with my improvements.

Figure 2, a view of the front end of the same.

Figure 3, a sectional view on the line 1-2, fig. 2: and

Figure 4, a plan view of the register as it appears when open.

Similar letters refer to similar parts throughout the several views.

The case of the register consists of the upper and lower portions, A and A', hinged together at *a*. The journals of the flanged pulley B turn, one-half in the portion A, and the other half in the portion A' of the instrument, so that when the latter is opened, as shown in fig. 4, the pulley will rest in the lower portion A', from which it may be readily removed. The two rollers C and C' are geared together, as shown in fig. 3, and the latter roller turns in suitable bearings in opposite sides of the lower portion of the case, the roller C turning in bearings which permit it to move vertically to a limited extent, this roller being acted on by a spring, *b*, which forces it against the lower roller. The point of a spring pawl, D, is adapted to the teeth of a ratchet-wheel, *e*, upon the spindle *d*, of the roller C', and prevents the latter from turning in any other direction than that indicated by the arrows, fig. 1, and upon the same spindle *d* on the outside of the case is a serrated wheel, *e*. A plate, E, secured to the lower portion of the case at the rear of the rollers C and C', has a transverse slot, *f*, for a purpose described hereafter. Two guide plates, *h* and *h'*, which nearly touch the rollers, are secured to the inside of the case at the front end of the same, one plate to the upper and the other to the lower portion of the said case, sufficient space intervening between them for the passage of the paper, as described hereafter. Two pins, *i* *i*, are secured to the plate *h'*, so that when the instrument is closed, as shown in figs. 2 and 3, they shall enter corresponding holes in the other plate *h*. An arm, G, acted upon by a spring, *x*, is hung to the lower portion of the case, and has a projection arranged to catch on to a similar projection on the upper portion of the case, as seen in fig. 3, the arm being controlled by a key inserted from the outside, so that the two portions of the case may be locked together or unlocked at pleasure.

The object of my improved register is the same as that described at length in my aforesaid patent, and its operation is as follows: The strip of paper upon which the tickets are printed is wound upon the pulley B, and the end of the paper passed through the slot *f* of the plate E. Thence it passes between the rollers C and C', the spring *b* maintaining a uniform pressure on the paper, so that when the wheel *e* is turned the strip of tickets will be fed regularly from the rollers C, and pass between the guide plates *h* and *h'*, and out of the narrow opening at the front of the instrument, the pins *i*, as will be seen in fig. 2, serving to maintain the paper, as well as the two portions of the case, in a proper lateral position.

I claim as my invention, and desire to secure by Letters Patent—

1. The plates *h* and *h'* arranged within the case in respect to the rollers C and C', and slit *y* in front of the case, substantially as described.
2. The combination of the roller C with the spring *b*, for the purpose described.
3. The plate E, with its transverse slot *f*, arranged within the case in respect to the rollers C and C', as set forth for the purpose specified.
4. The steadying and guiding-pins *i* *i*, secured to one portion of the case, and adapted to holes in the other portion, as and for the purpose herein set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WM. HELFFRICHT.

Witnesses:

JOHN WHITE,

W. J. R. DELANY.