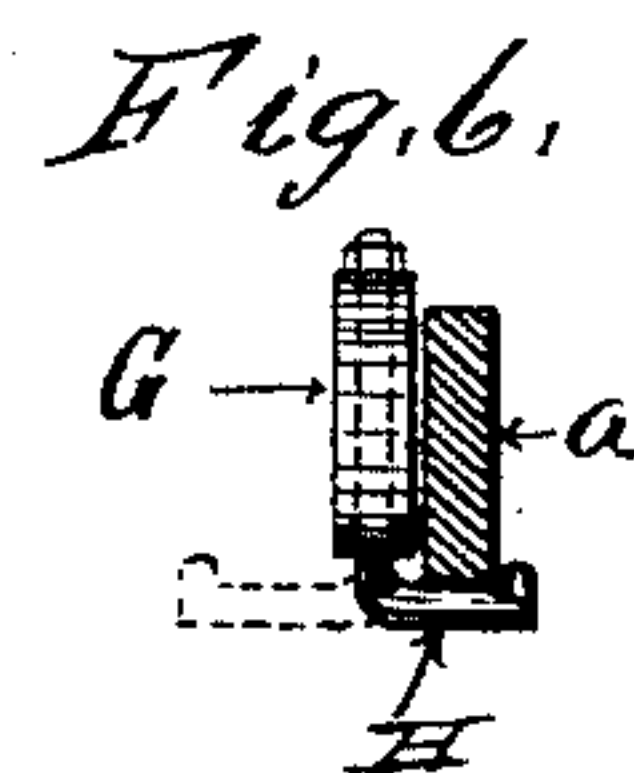
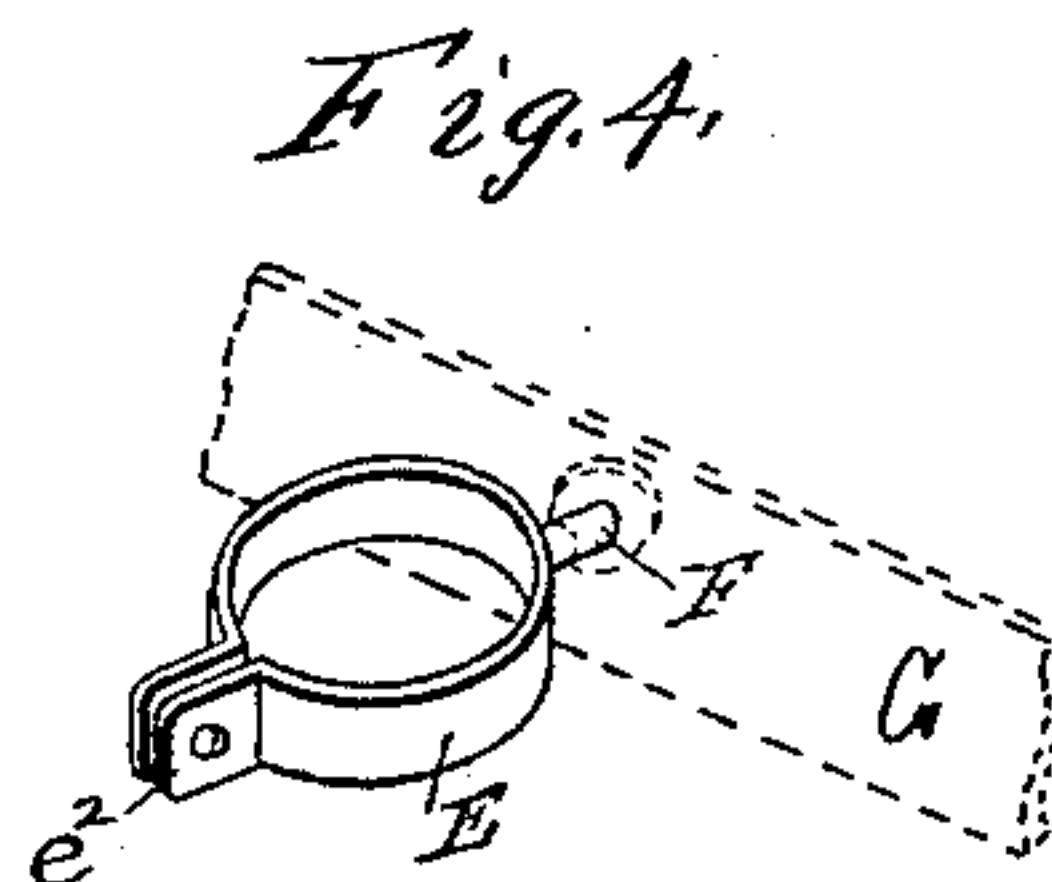
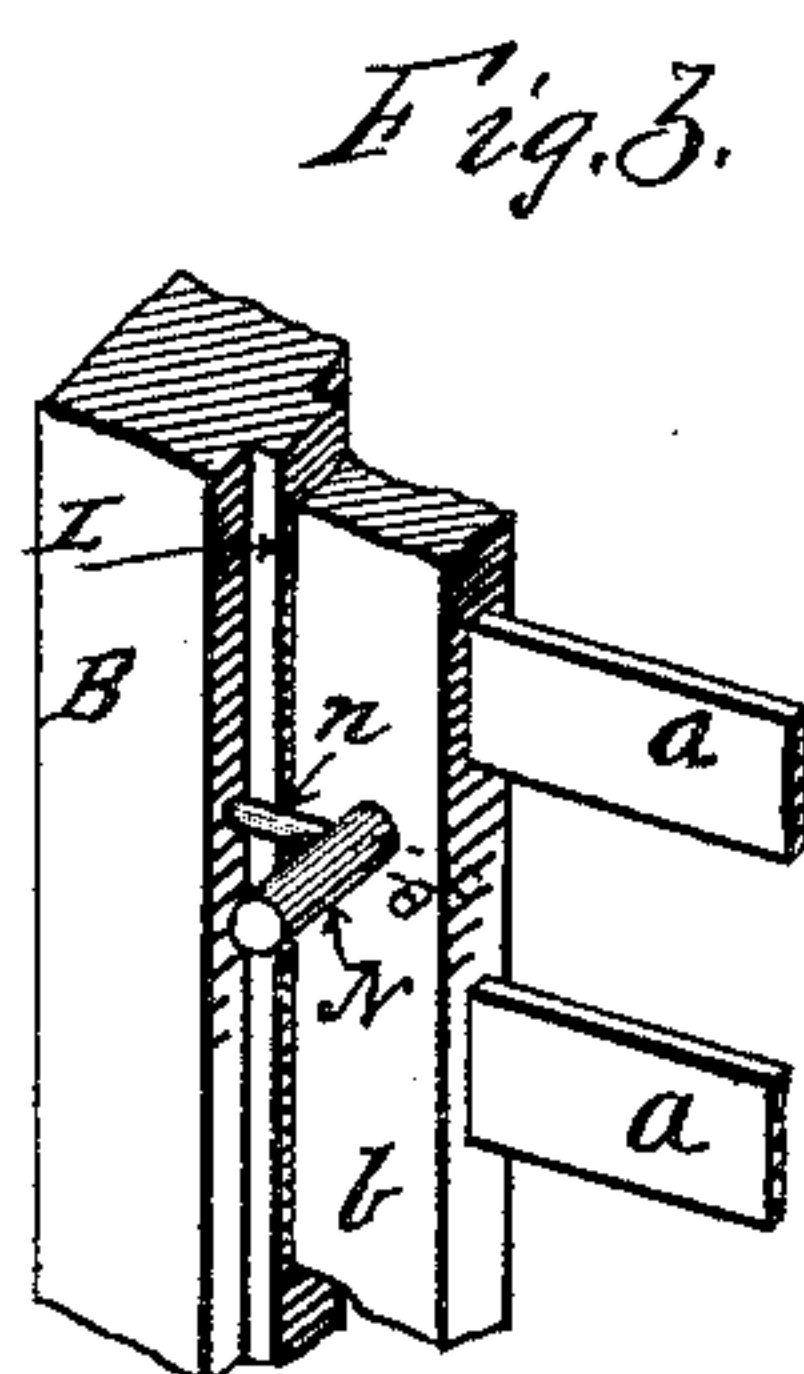
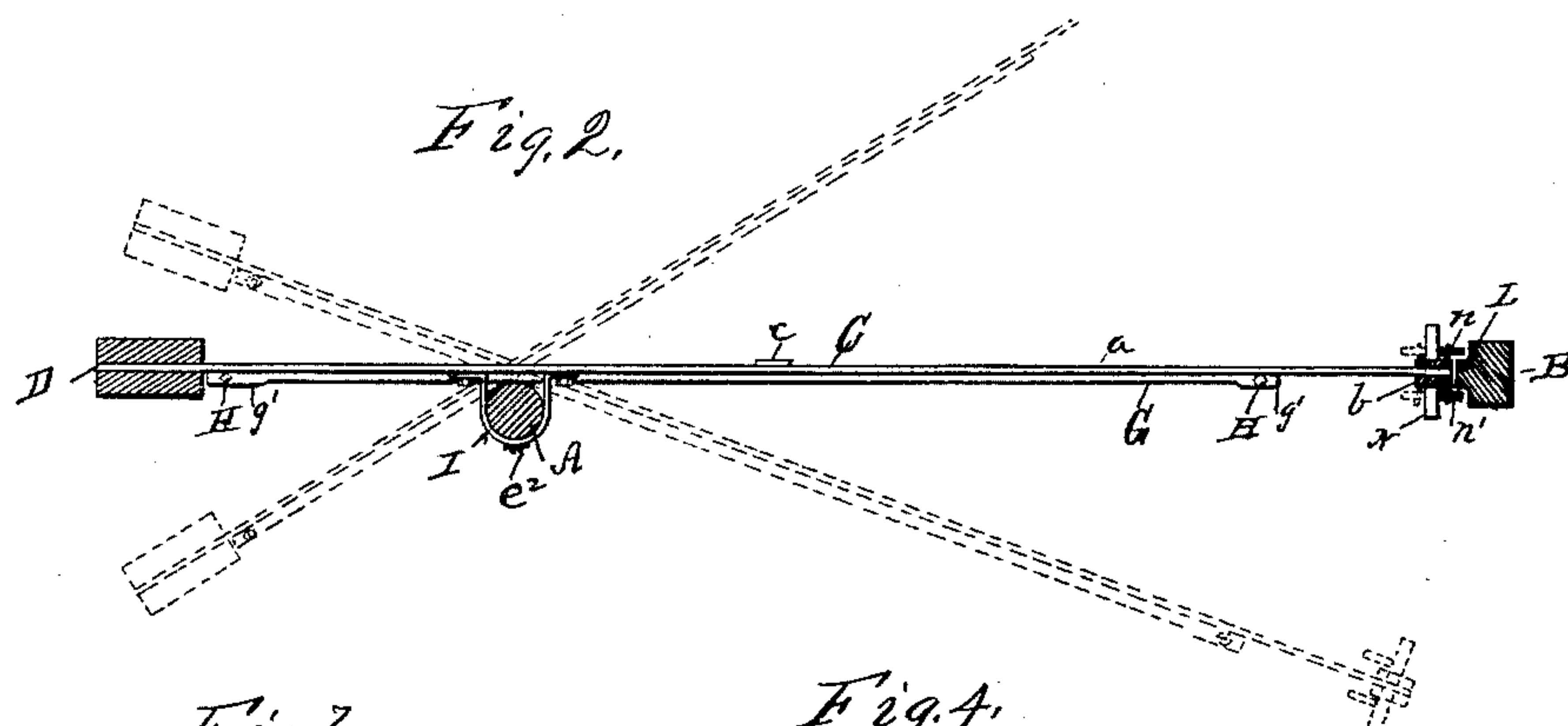
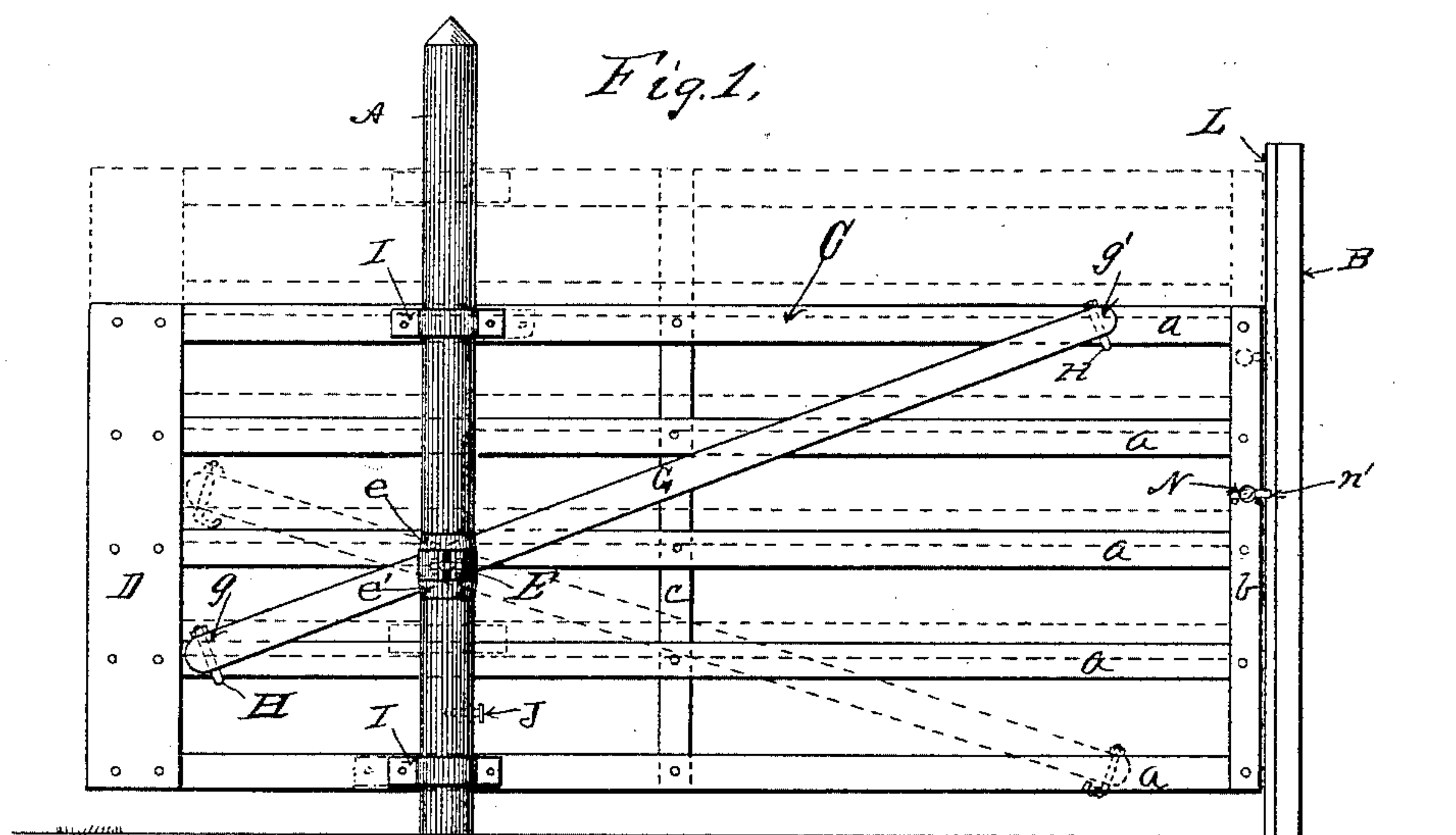


(No Model.)

E. GREEN.
ADJUSTABLE BALANCED SWINGING GATE.

No. 450,724.

Patented Apr. 21, 1891.



WITNESSES.

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ADJUSTABLE BALANCED SWINGING GATE.

SPECIFICATION forming part of Letters Patent No. 450,724, dated April 21, 1891.

Application filed November 20, 1890. Serial No. 372,118. (No model.)

To all whom it may concern:

Be it known that I, ELMER GREEN, a citizen of the United States, residing at North East, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Adjustable Balanced Swinging Gates; 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, forming part of this specification.

My invention consists in the improvements in adjustable balanced swinging gates hereinafter set forth and explained, and illustrated in the accompanying drawings, in which—

Figure 1 is a view in elevation of my improved adjustable balanced swinging gate, with adjustment illustrated by dotted lines. Fig. 2 is a top or plan view of same. Fig. 3 is an enlarged view in perspective, showing the fastening mechanism thereof. Fig. 4 is a detail view, in perspective, of the adjusting-lever hinge. Fig. 5 is a detail view, in perspective, of one method of securing the adjusting-lever hinge to the post. Fig. 6 is a detail view of one of the hooks in the ends of the adjusting-lever.

Like letters refer to like parts in all the figures.

In the construction shown in the drawings of my improved adjustable balanced swinging gate, A is the main post, upon which the gate swings; B, a post to which the end of the gate is secured when closed, and C the gate. I construct the gate C longer than is required to close the opening between the posts A and B, and preferably of longitudinal strips or bars *a*, secured by vertical pieces *b*, *c*, and D, the cross-piece D on the rear end of the gate being preferably made heavy enough to form a counter-balance for that portion of the gate extending from the post A to the post B.

Around the post A, at a point preferably about one-third of its height from the ground, I secure a band or annular hinge E by means of collars *e e'* around the post A above and below the hinge E, or by means of an annular groove *f*, as illustrated in Fig. 5, the hinge

E being clamped in place by means of a small bolt passing through ears *e²* thereon, so that the hinge E will rotate freely around the post B. On one side of the hinge E is secured a pintle F, upon which is pivoted an adjusting-lever G, the rear end *g* of said lever extending back nearly to the counter-balance cross-bar D of the gate and the front end *g'* thereof extending forward nearly to the front cross-bar *b* of the gate.

Through the rear end *g* and the front end *g'* of the lever G, I put hooks H, adapted to engage with the under edges of the longitudinal bars or strips *a* of the gate C, or be turned around, as illustrated in Fig. 6, so as to permit the adjustment of the lever G.

The gate C is preferably secured to the post B by means of bands I I, loosely encircling the post B and secured to the upper and lower of the longitudinal strips *a* of the gate, so as to retain the gate in a vertical position and allow it to swing either way, as may be desired, it being supported vertically by the lever G, the hook H at the rear end *g* of the lever G engaging with one of the bars or strips *a* and the front end being raised or lowered by the hand of the operator, so as to lower or raise the gate to such point as may be desired, where it is secured by making the hook H engage with the lower edge of one of the bars *a* of the gate. By this means the gate can be adjusted to any height covered by the swinging of the end *g'* of the lever G between the upper and lower rails of the gate C, as illustrated in Fig. 1. For the purpose of further adjustment I place in the side of the post A a loose pin J, which, when pushed in, permits the band or strap I on the lower rail *a* of the gate to pass freely over it; but when it is necessary to raise the gate C higher than its normal adjustment it is raised up until the lower strap or band I is above the pin J, when it is pulled out. The front end *g'* of the lever G is then released, so as to allow the weight of the gate C to rest upon the pin J, when the hook H in the rear end of the lever G is rotated, so as to pass down below the lower rail of the gate *a*, with which it is then engaged, after which the pin J is pushed back into the post A and the gate C then swings again in its elevated position on the lever G, as before.

On the inner face of the post B, I secure a vertical strip L, so that the cross-bar *b*, forming the outer end of the gate C, will swing freely past it, and through the cross-bar *b* I bore a round hole, in which a pin N rotates, having pins *n n'* therein on each side of the cross-bar *b* of sufficient length to extend out beyond the cross-bar *b* and engage with each side of the strip L on the post B, at whatever height the gate C may be when closed, or which may be released from the strip L by rotating the pin N.

From the foregoing description of the construction of my device its operation is so obvious that further description thereof is deemed unnecessary. Therefore

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The combination of a post A, the annular hinge E and lever G, pivoted upon said hinge E, with a balanced gate C secured to

said post A by clips I I and supported upon said lever G and adapted to be vertically adjusted thereby, substantially as and for the purpose set forth.

2. The combination of a counterbalanced gate C, having clips I I thereon encircling a post, and a rotating catch N, adapted to be engaged with a vertical rib L on a post B with the gate-supporting post A, the annular hinge E on said post, and the lever G, pivoted to said hinge E and provided with adjustable hooks H, engaging with the horizontal bars of said gate C, substantially as and for the purpose set forth.

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

ELMER GREEN.

Witnesses:

WM. P. HAYES,
C. B. HAYES.