

(No Model.)

P. RODIER.
HINGED BUTTON.

No. 451,954.

Patented May 12, 1891.

Fig. 1.

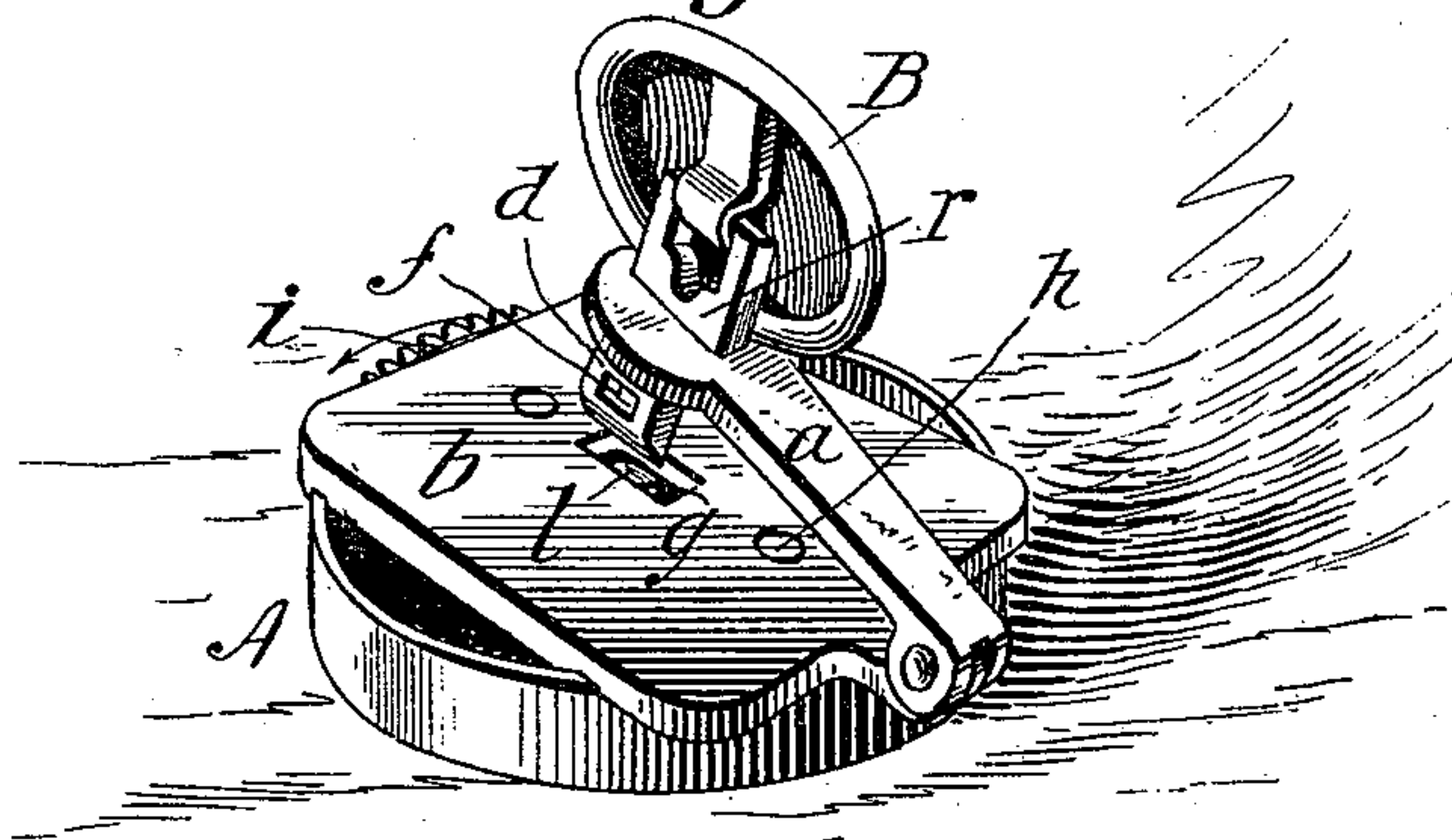


Fig. 2.

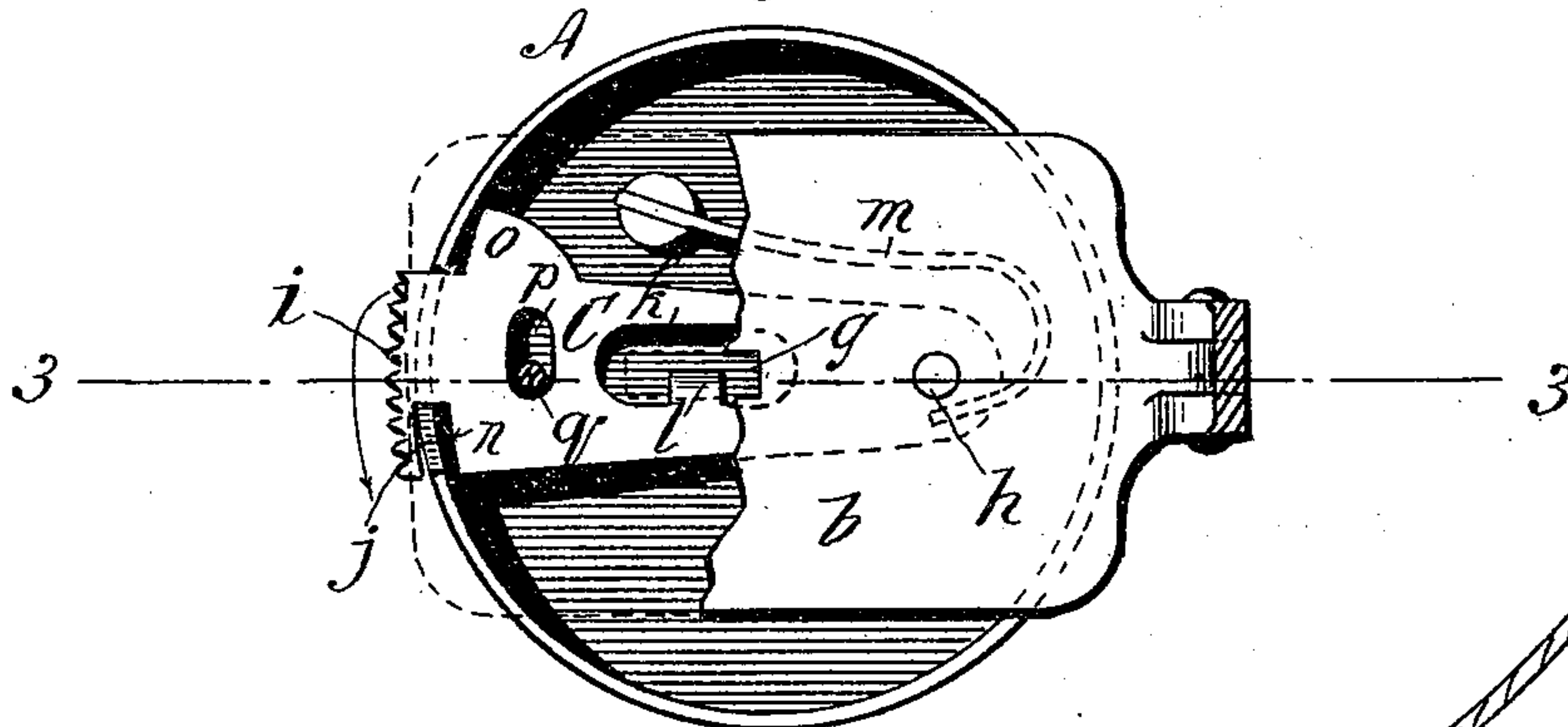


Fig. 3.

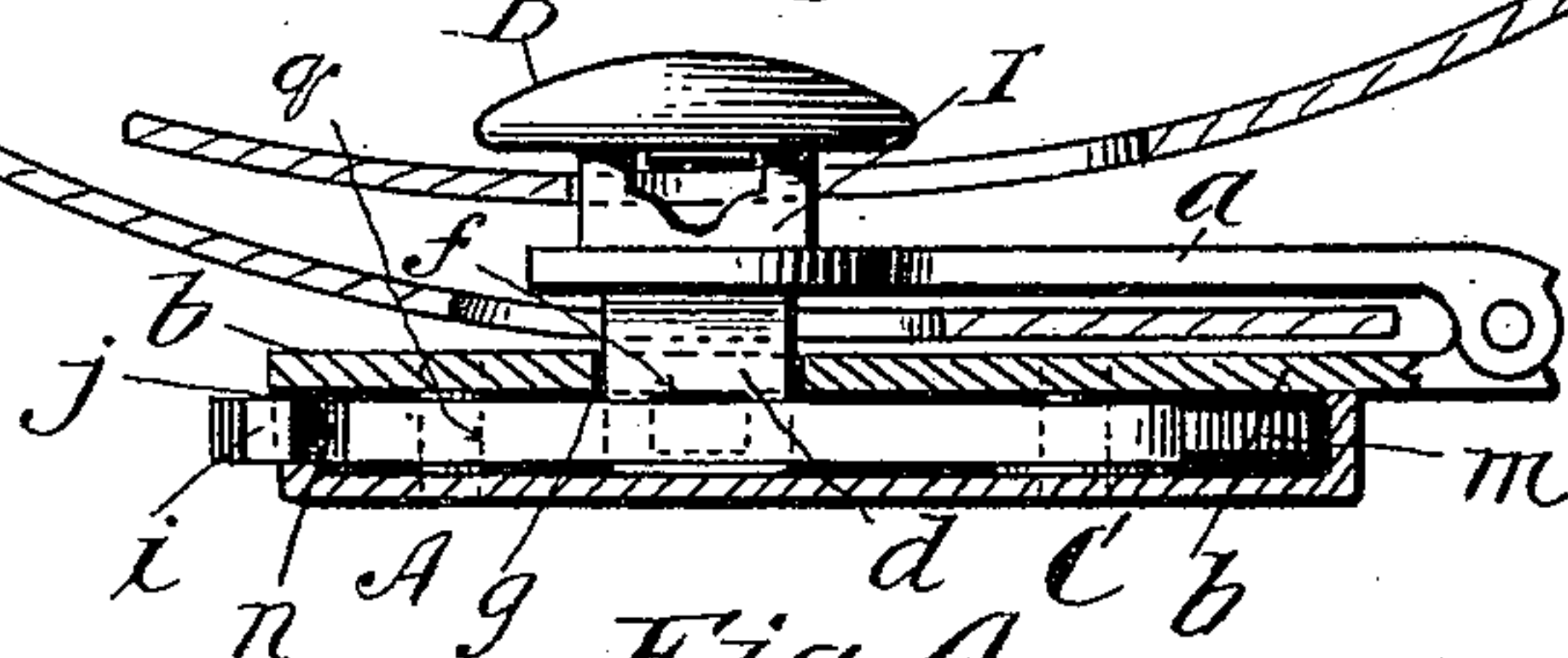
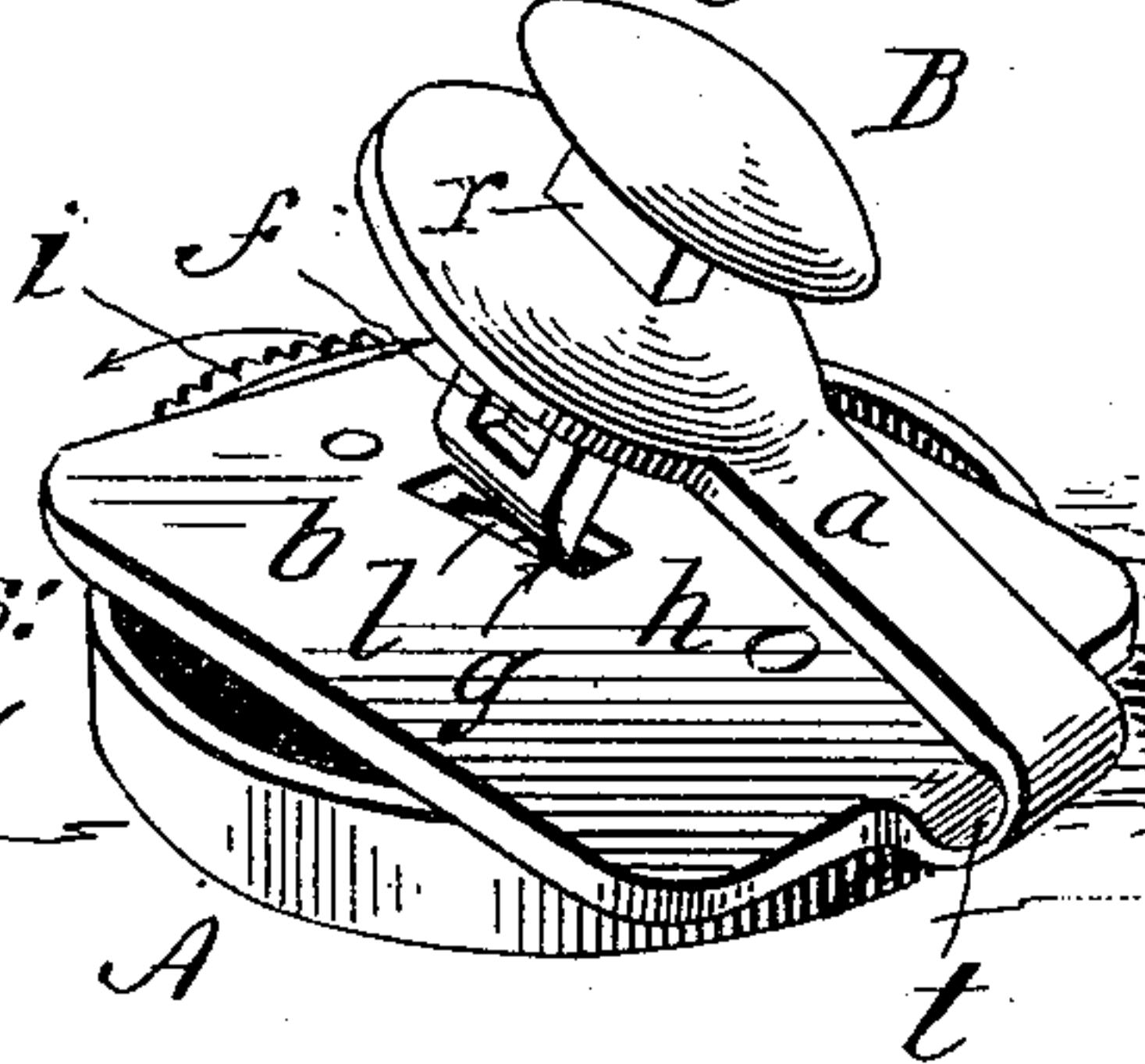


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

PETER RODIER, OF SPRINGFIELD, MASSACHUSETTS.

HINGED BUTTON.

SPECIFICATION forming part of Letters Patent No. 451,954, dated May 12, 1891.

Application filed December 4, 1890. Serial No. 373,530. (No model.)

To all whom it may concern:

Be it known that I, PETER RODIER, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Hinged Buttons, of which the following is a specification.

This invention relates to improvements in hinged buttons, especially collar and cuff buttons, the object being the production of a button which may be operated with unusual ease and rapidity and without wrinkling, soiling, or disarranging the collar or cuff, and which button is most certain in its confining action and otherwise efficient.

The invention consists in the construction and combination of parts, all substantially as will hereinafter more fully appear, and be set forth in the claims.

Reference is to be had to the accompanying drawings, in which the button is shown as enlarged.

Figure 1 is a perspective view at the rear thereof. Fig. 2 is a plan view of the button as seen at the back, with parts broken away for clearer illustration. Fig. 3 is a sectional view of the button on the line 3 3, Fig. 2; and Fig. 4 is a perspective view similar to Fig. 1, but showing a slight modification in the construction, to be hereinafter referred to.

In the drawings, A represents the front or body of the button, which is to be of any suitable form and size, whether for a cuff or collar button or otherwise, and B represents the rear stop or check plate of the button. Said check-plate B of the button is carried on an arm *a*, which is pivoted at the rear of the button-body A, and is adapted to be swung toward and away from the back *b* of the body, and said arm on its inner side has a forwardly-projecting stud *d*, which is provided with a suitable catch-aperture, as *f*. The said stud *d* is adapted, when the arm is swung into proximity with the back, to extend through the aperture *g* in the back-plate of the button-body and into the internal chamber, which is formed in said body.

There is disposed and movable in the chamber of the button-body a stud-catch C, having a portion to engage the catch-aperture of the said stud, and also a portion which projects to the exterior of the button-body, and

by which the stud-catch is moved. As particularly illustrated, the stud-catch is formed of a flat metallic plate pivoted at its one end, as at *h*, its extremity *i* projecting through a slot *j* in the edge-forming wall of the button, and is there serrated to insure the easy swinging of the catch. The catch-plate is provided with a central aperture *k*, within which the stud *d* may enter, and there is a tongue *l*, formed as an inward extension of the said plate from the border of said aperture for engaging the aperture of the stud. The catch-plate is normally maintained in the position indicated in Fig. 2 (which is the interlocking position) by the spring *m*. The slot *j* has about the same extent as the width of the catch-plate C at the portion thereof which passes through such slot; but the plate is recessed from its edge, as shown at *n*, so that it may be moved, the portion *i* of the plate outside of the recess *n* forming a guard or closure for the unoccupied portion of the slot. The plate C is also provided with the guard-extension *o*, so that even when the plate is swung for detachment from the stud the slot will be closed against the entrance of dirt or other matter therethrough. It is preferred to form the plate with the slot *p* and to provide the pin *q* on the button-body for engagement therewith, so that the movements of the plate in either direction may be limited with the utmost nicety. The rear check-plate B of the button is shown mounted on a post *r*, extending rearwardly from the hinged arm *a*, being pivotally connected thereon to be swung into a plane about coincident with the axis of the button-head in a well-known manner, although the said check-plate may, if desired, be rigidly affixed on the said post *r*.

In Fig. 3 the manner of the engagement of the hinged button with the collar, cuff, or other apparel is indicated, *x* representing the overlapping portions, for instance, of a cuff, it being understood that the one button-hole portion of the cuff is just engaged with the catch-stud, which in turn is passed through the aperture in the button-body back and engaged by the catch-tongue *l*, the other button-hole portion of the cuff being engaged with and by the check-plate B. The cuff may be spread open without entirely removing the button therefrom by simply swinging the

catch-plate C, which may be most quickly and easily performed.

The arm *a*, which in substance is hinged to the body of the button, may, as shown in Figs. 1, 2, and 3, be provided with ear-pieces, through which a hinge-pin may be passed, which also passes through a suitably-formed extremity of the back-plate *b*, the hinge-connection between the plate proper and the extension-arm being constituted by the longitudinal portion *t*, as shown in Fig. 4.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a hinged button, the combination, with a hollow or chambered button-body provided with the aperture *g* through its back, of an arm hinged to said body and adapted to have a vibratory movement back of the body and having a stud which may enter said hollow body through said aperture, and also provided with a rearwardly-supported check-plate, and a catch within said hollow body adapted to move for engagement with and disengagement from said stud and having an extension which is projected to the exterior of the button-body, for the purpose set forth.

2. In a hinged button, the combination, with the button-body provided with the edge slot *j* and the back-plate *b*, having the aperture *g*, of the catch-plate pivoted within said button-body, having the extension *i*, which projects through said aperture and provided with a tongue, and the arm *a*, hinge-connected at the back of the button and provided with the recessed stud and also having thereon the check-plate B, substantially as described.

3. The combination, with the button-body provided with the edge slot *j* and the back-plate *b*, having the aperture *g*, of the catch-plate C, pivoted within said button-body, having an extension which projects through the said aperture, having the recess *n* and provided with a tongue, and the arm *a*, hinge-connected at the back of the button and provided with the recessed stud and also having thereon the check-plate B, substantially as described.

4. The combination, with the button-body provided with the edge slot *j* and the back-plate *b*, having the aperture *g*, of the spring-pressed catch-plate pivoted within the button-body, having the serrated extension *i*, the recess *n*, the guard portion *o* and the tongue *l*, and the arm connected to button and adapted to swing toward and from the back thereof and provided with the recessed stud and the check-plate B, substantially as described.

5. The combination, with the button-body provided with the edge slot *j*, back-plate *b*, having the aperture *g*, and pin *p*, of the spring-pressed catch-plate pivoted within the button-body, having the serrated extension *i*, the recess *n*, the guard portion *o* and the tongue *l*, and the arm *a*, hinged to the back of the button, provided with the recessed stud *d* and the check-plate B, all substantially as described, for the purpose set forth.

PETER RODIER.

Witnesses:

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