

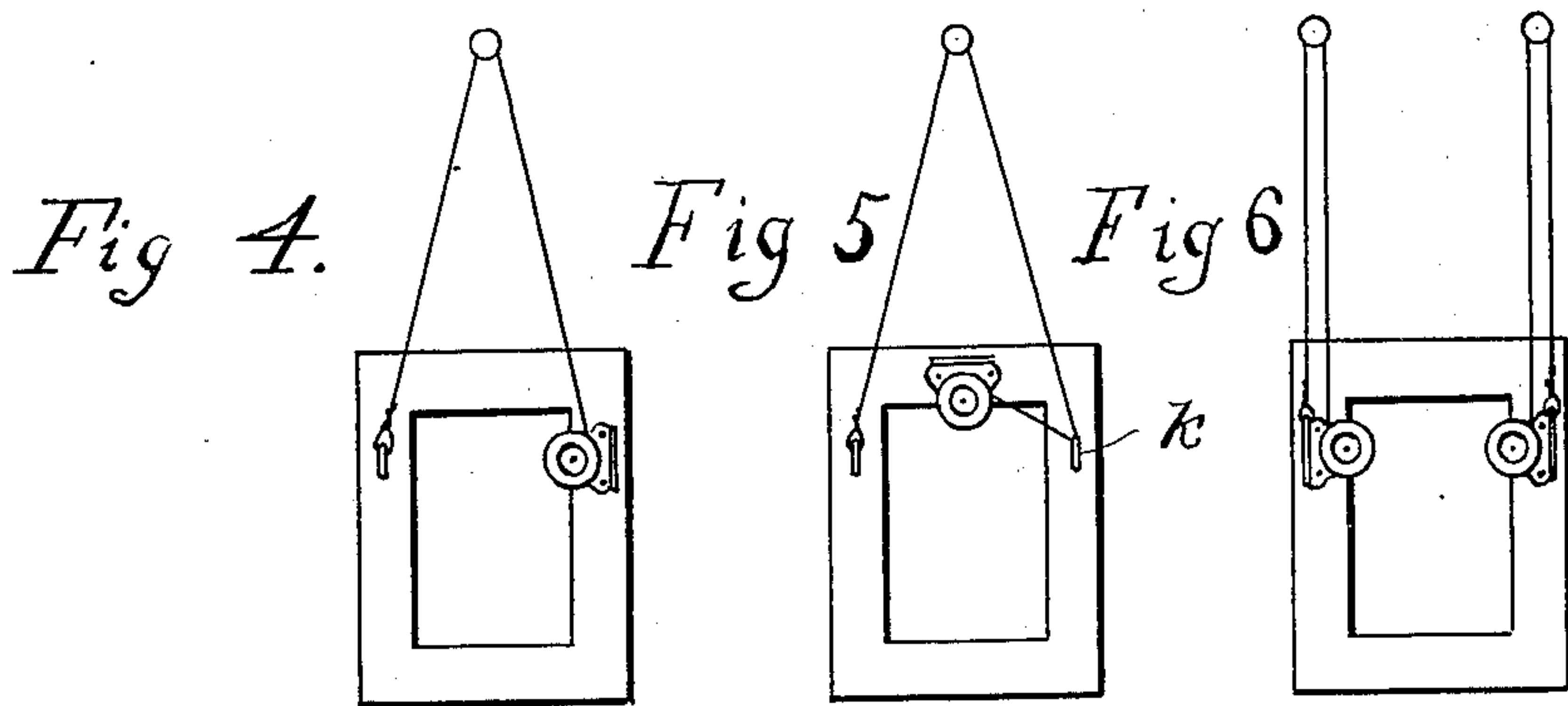
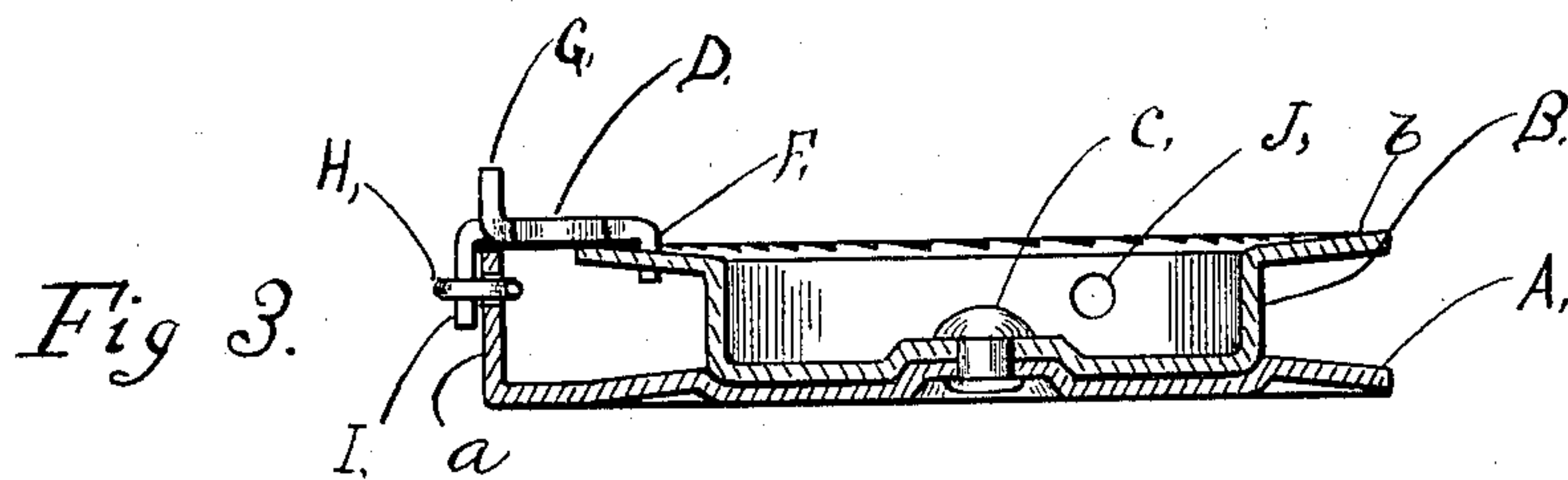
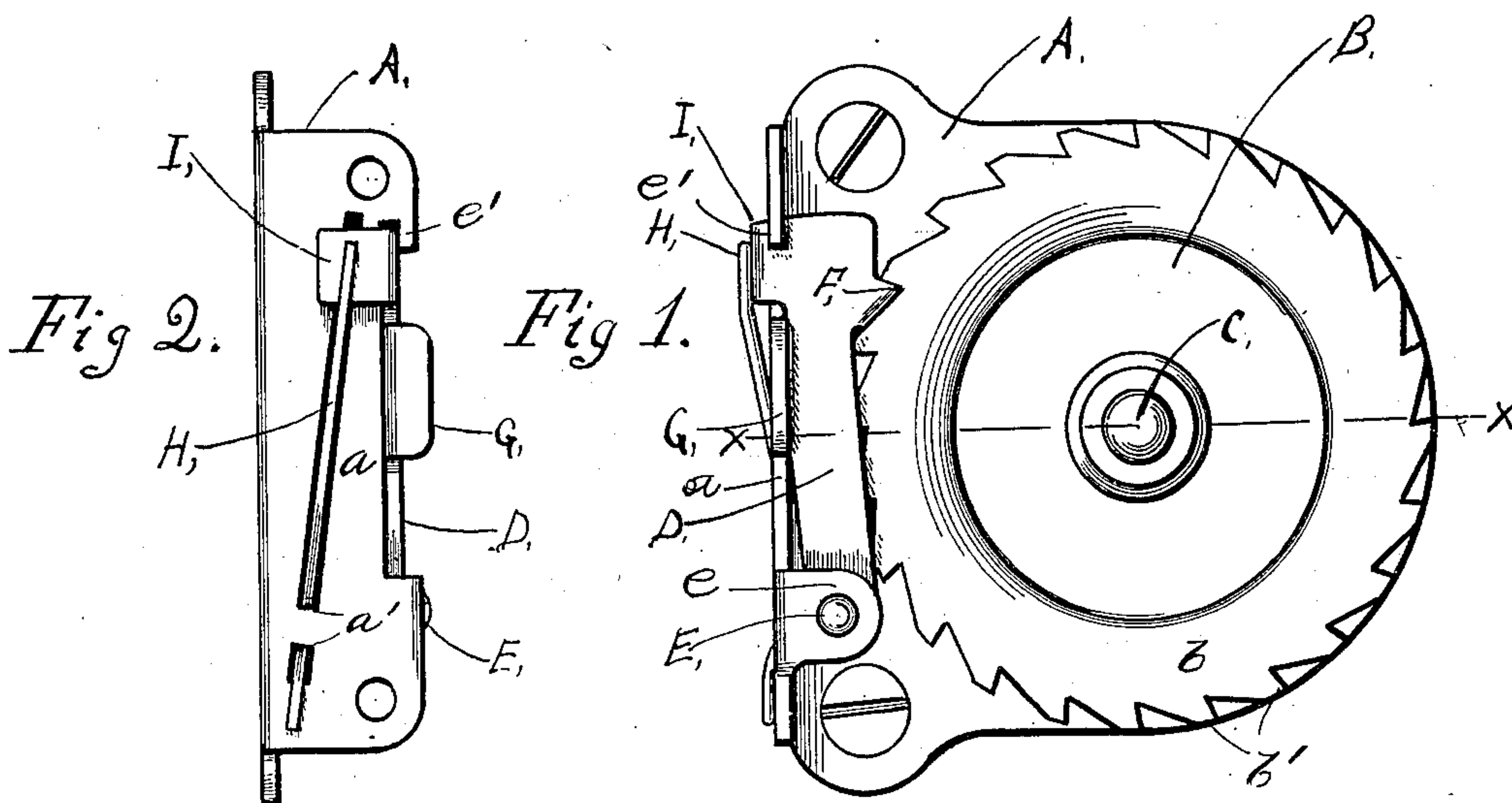
No. 660,938.

Patented Oct. 30, 1900.

D. W. TOWER.
PICTURE ADJUSTER.

(Application filed July 9, 1900.)

(No Model.)



Witnesses.

Carlton Austin.

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Inventor.

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UNITED STATES PATENT OFFICE.

DANIEL W. TOWER, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO THE
GRAND RAPIDS BRASS COMPANY, OF SAME PLACE.

PICTURE-ADJUSTER.

SPECIFICATION forming part of Letters Patent No. 660,938, dated October 30, 1900.

Application filed July 9, 1900. Serial No. 23,040. (No model.)

To all whom it may concern:

Be it known that I, DANIEL W. TOWER, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented new and useful Improvements in Picture-Adjusters, of which the following is a specification.

This invention relates to picture-hangers, and has for its object to provide an exceedingly simple, light, strong, and durable picture-hanger which will be efficient in operation and which may be manufactured at small cost.

To these ends my invention consists in the features and in the construction, combination, and arrangement of parts hereinafter described, and particularly pointed out in the claims, reference being had to the accompanying drawings, forming a part of this specification, wherein—

Figure 1 is a view in front elevation of my improved hanger. Fig. 2 is an edge view of the same. Fig. 3 is a sectional view taken on the line xx of Fig. 1. Figs. 4, 5, and 6 are views illustrating three different ways of applying the hanger.

Referring to the drawings, the reference-letter A indicates a plate, preferably of sheet metal and of any form and size suitable for the purpose, said plate being bent up at a right angle on one side to form a flange a , and said flange is provided with an integral ear or lug e , which is bent at a right angle thereto and into parallelism with the plate A for the purpose hereinafter made apparent. Said flange is also provided on its edge with an overhanging or undercut lip or tongue e' .

The letter B indicates a winding-drum, preferably stamped up from an integral blank of sheet metal and provided with an annular flange b , having ratchet-teeth b' formed on its periphery. The drum B is seated on the plate A and is rotatably secured thereon by a rivet C. Formed in the periphery of the barrel of the drum is a perforation J, through which the end of the picture-cord is passed and is then knotted to secure the cord to the drum. Passing through and secured in the base or plate A and the ear or lug e is a rivet or pin E, on which is journaled one end of a pawl comprising a flat sheet-metal plate D,

the upper end of which is arranged to oscillate beneath the overhanging lip or tongue e' , which operates to hold the pawl in operative position to engage the ratchet-teeth b' . The pawl D is provided on its inner edge near its free end with an integral beveled projection F, forming a tooth that engages the ratchet-teeth of the drum, and on the opposite edge of said pawl is an integral lip or lug I, that is bent at a right angle to the pawl, as most clearly shown in Figs. 2 and 3 of the drawings. Formed in the flange a near one end thereof are two apertures a' , through which is inserted one end of a wire spring H, the other or free end of which impinges and bears against the lip or lug I of the pawl and holds the tooth F of the latter in engagement with the ratchet-teeth b' of the drum B.

Usually but one of the hangers is employed with each picture. As shown in Fig. 4, the base-plate A is attached to the rear of the picture-frame on one side by screws or other suitable fastenings. One end of the picture-cord is attached to the drum in the manner before described and is wound about the same, while the other end of the cord is attached in the usual manner to the opposite side of the picture-frame. The cord is suspended from a picture-nail or other suitable support in the usual manner, and when so suspended the picture may be readily raised and lowered to adjust it to the desired height. To raise the picture, it is only necessary to rotate the drum in the proper direction to wind the cord thereon, and to lower it the pawl is disengaged from the ratchet-teeth of the drum, when the weight of the picture will cause the cord to unwind from the drum, or a slight downward pull on the picture may be necessary. For convenience in disengaging the pawl from the ratchet-teeth said pawl is provided on its outer side with a lug or lip G, which is bent outward at a right angle to the pawl to form a thumb-piece, which may be readily engaged by the finger or thumb to retract the pawl against the tension of the spring H.

In Fig. 5 I have shown the hanger arranged in substantially the same manner as that above described, excepting that instead of attaching the drum to the side of the picture-frame it is attached centrally to the upper end

of the same. One end of the cord is attached to the side of the frame, as before, and the other end is passed through a screw-eye *k* or other suitable guide, and thence passes to
5 the drum, about which it is wound.

When the picture-frame is unusually large or heavy, two drums may be employed, one being attached to each side of the picture-frame, as shown in Fig. 6, a cord being pro-
10 vided for each drum, one end of each cord being attached to its drum and the other end to the picture-frame.

I have described my improved hanger as being employed for hanging pictures; but it will
15 be evident that it can be employed equally as well and without alteration for hanging mirrors and other articles of furniture and the like.

Having described my invention, what I
20 claim is—

1. In a picture-hanger, the combination with a base comprising a plate having at one side an upturned flange provided on its outer edge with an undercut or overhanging lug
25 or lip, a winding-drum rotatably mounted on the base and provided on its periphery with

ratchet-teeth, and a pivoted pawl constructed at its free end to engage said ratchet-teeth and arranged to oscillate between the said overhanging lip or tongue and the edge of the
30 flange, substantially as described.

2. In a picture-hanger, the combination with a base comprising a plate having at one side an upturned flange, a drum rotatably
35 mounted on the base and provided on its periphery with ratchet-teeth, a pivoted pawl constructed at its free end to engage said ratchet-teeth and provided on its outer edge with a lip or lug bent at a right angle to the pawl, and a spring inserted at one end in apertures
40 formed in said flange and at its free end bearing against the lip or lug on the pawl to hold the latter in engagement with the ratchet-teeth, substantially as described.

In testimony whereof I have hereunto set
45 my hand in presence of two subscribing witnesses.

DANIEL W. TOWER.

Witnesses:

EDWARD TAGGART,
JAMES B. DAVIES.