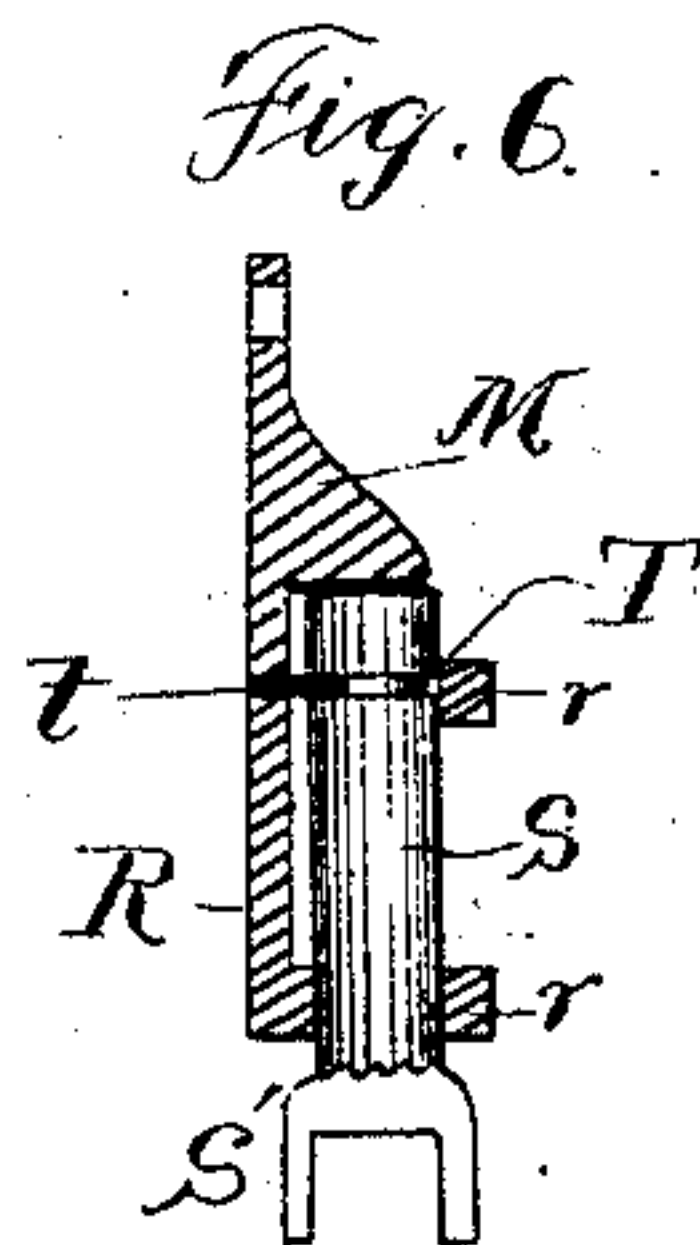
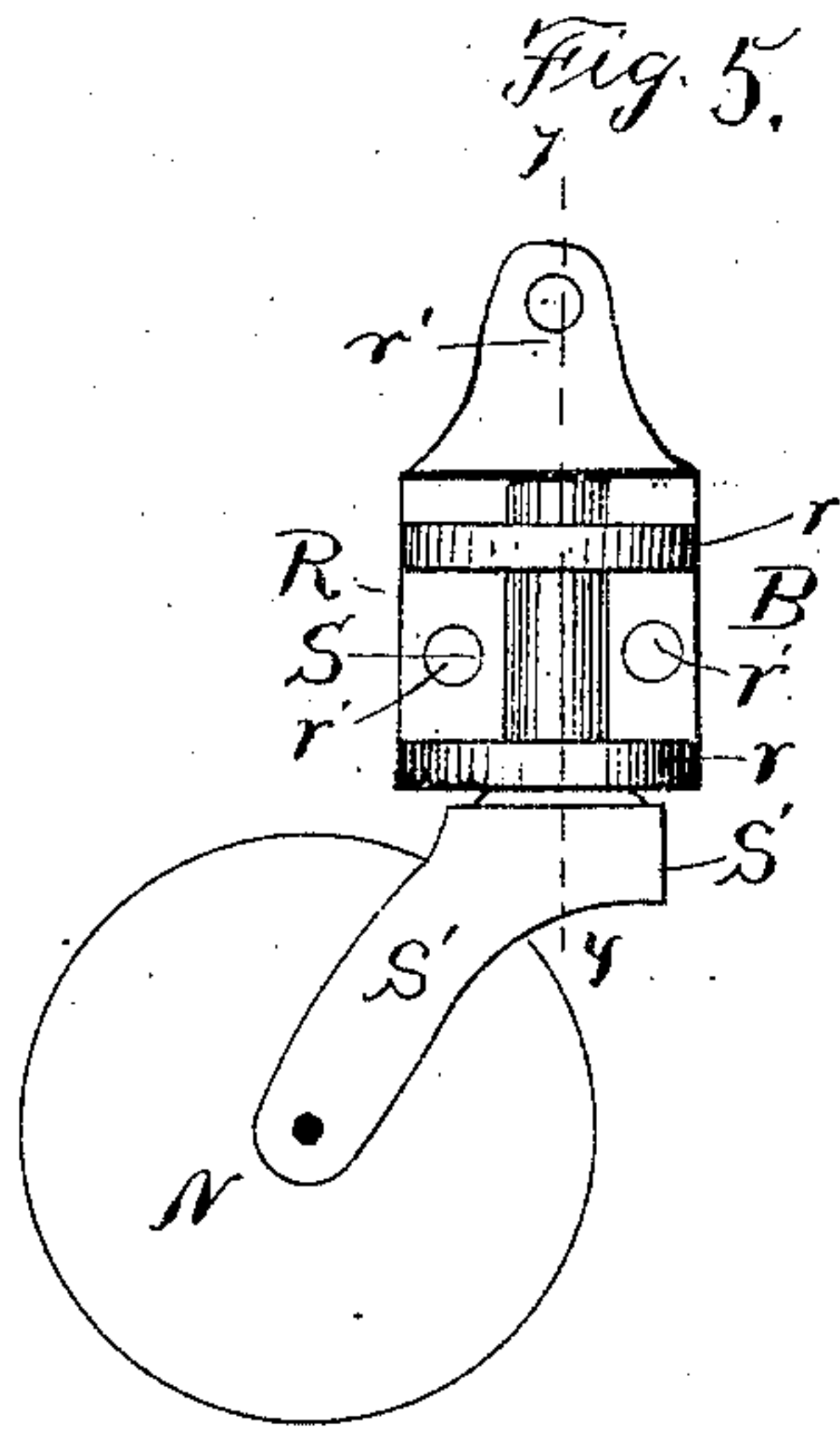
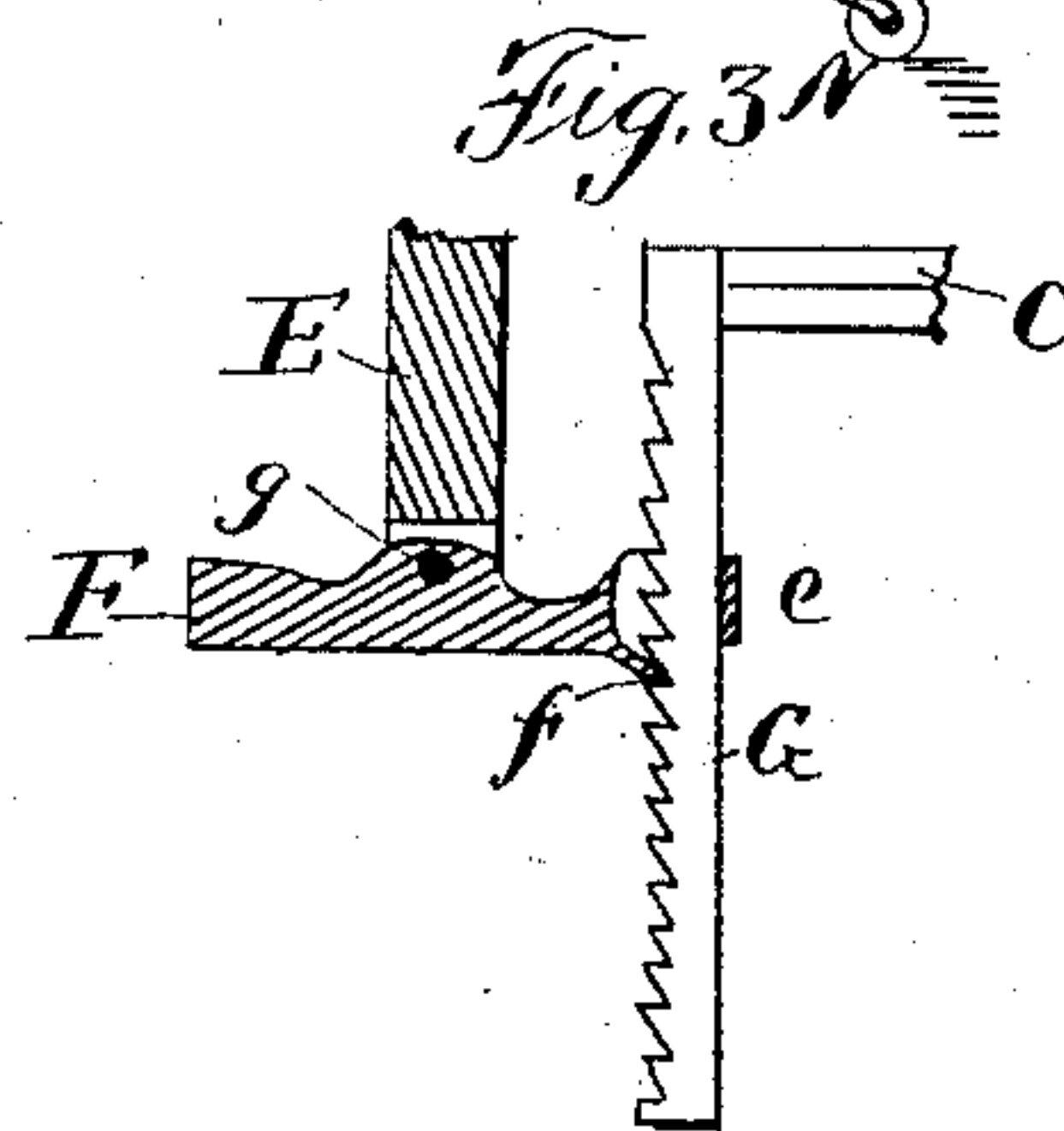
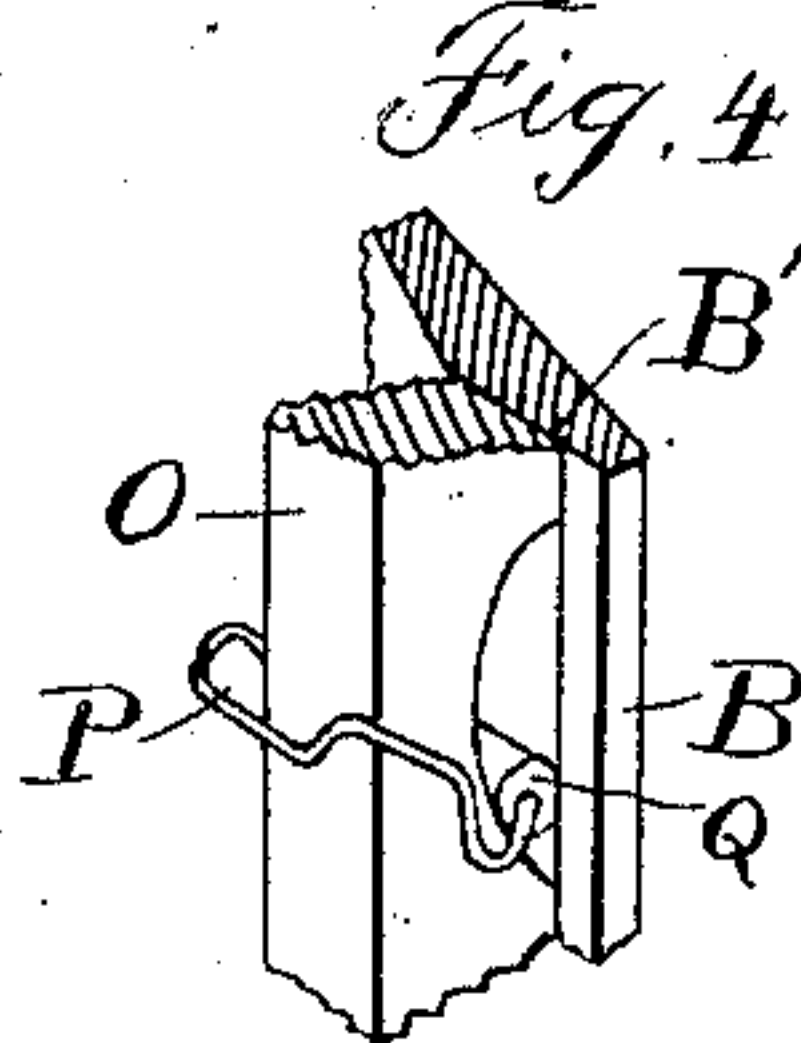
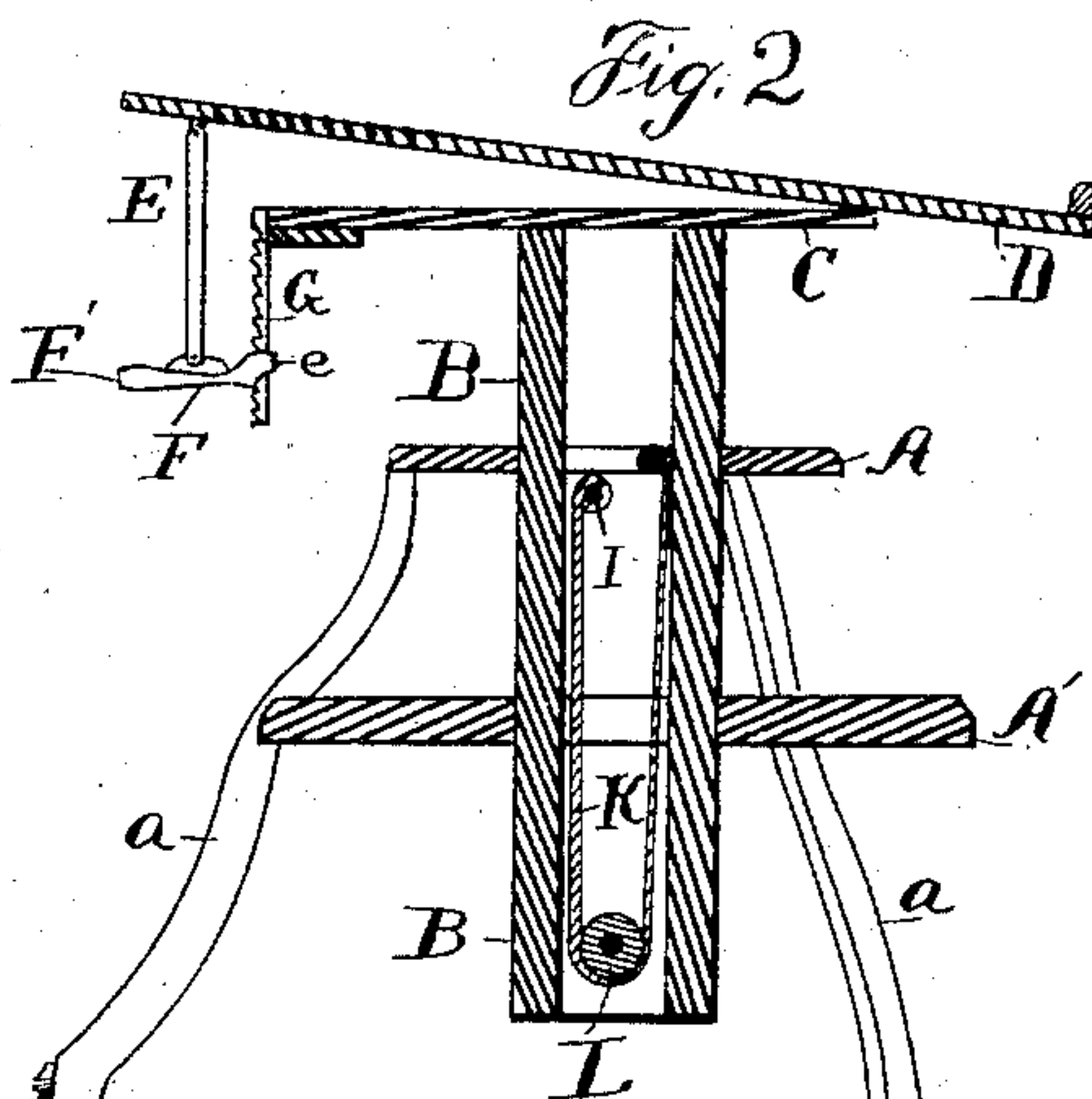
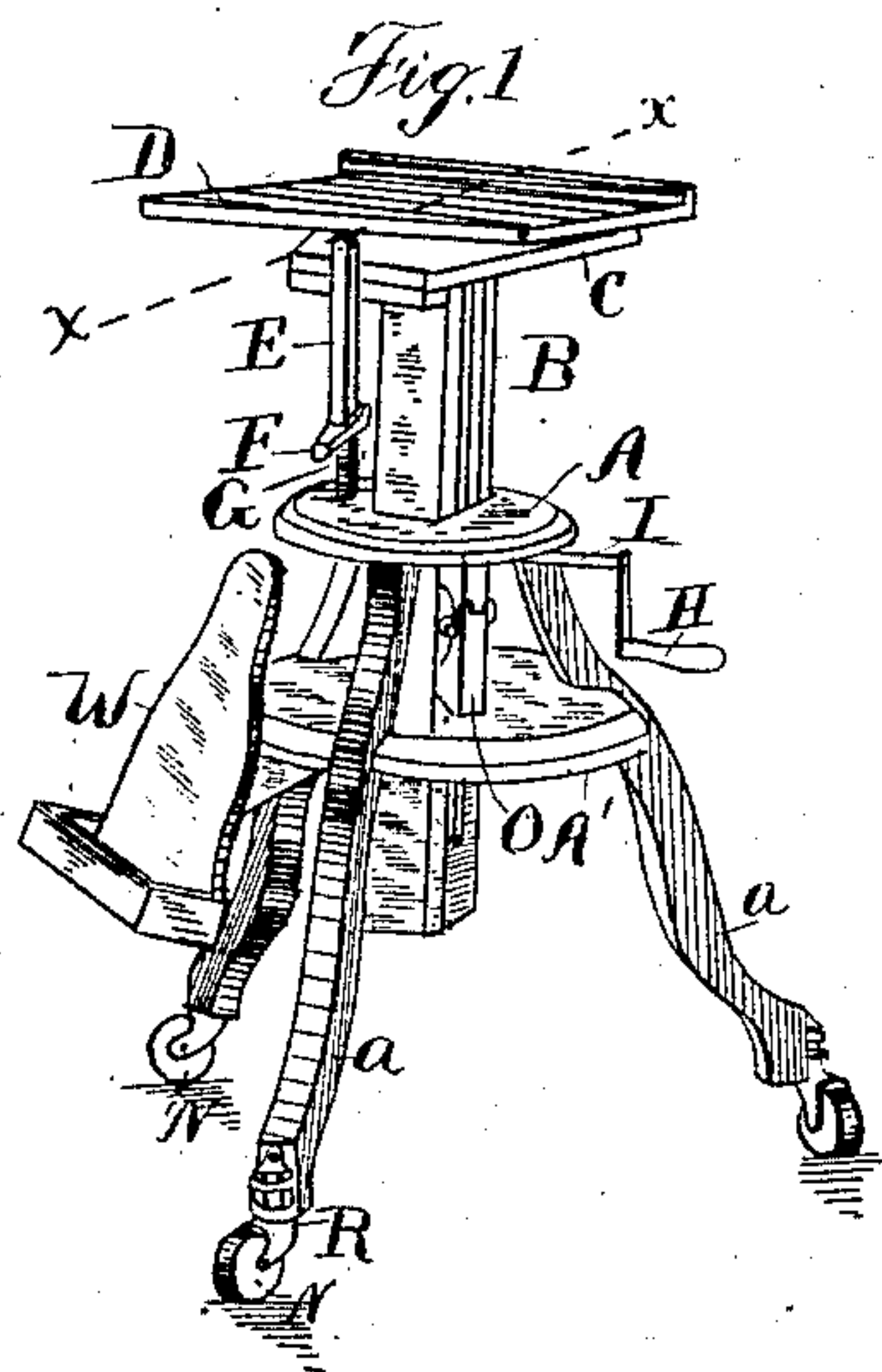


(No Model.)

J. H. SMITH.
CAMERA STAND.

No. 317,230.

Patented May 5, 1885.



Witnesses
G. W. H. Brown.
Edw. F. Simpson Jr.

Inventor.
James H. Smith
by C. B. Swett,
Attorney.

UNITED STATES PATENT OFFICE.

JAMES H. SMITH, OF CHICAGO, ILLINOIS.

CAMERA-STAND.

SPECIFICATION forming part of Letters Patent No. 317,230, dated May 5, 1885.

Application filed November 10, 1884. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. SMITH, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Camera-Stands; and I do 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 and figures of reference marked thereon, which form a part of this specification.

My invention consists in the general construction of camera-stands, and relates particularly to means used for tilting the leaf or platform of the stand and to improvements in the casters supporting the stands.

The accompanying drawings illustrate the invention, to which reference is made in the following description. Figure 1 of the drawings is an elevation of my camera-stand in perspective. Fig. 2 is an elevated section of same on the line *x x* of Fig. 1. Fig. 3 is a detailed view of my tilting catch, a part being in section. Fig. 4 represents the elevator-lock in perspective. Fig. 5 shows my caster in front elevation. Fig. 6 is a portion of the same in profile, a part being in section, taken on the line *y y* of Fig. 5.

Reference is made to the drawings by letters, similar letters denoting corresponding parts in the different views.

The letters *A A'* indicate two disks, and the letters *a a a* three legs, which, being joined as shown in Fig. 1, compose the main frame of the stand. A block, *O*, having a curved inner face connects the two disks *A A'*. Both of these disks have central openings to receive the vertically-sliding frame *B* and its elevating apparatus. An ordinary top, *C*, rests upon the frame *B*, and to it is hinged the tilting platform *D*, as commonly done.

To the rear edge of top *C* is fixed the notched pendant *G*, and beneath the rear part of the leaf *D* is hinged a rod or arm, *E*, to the lower end of which arm is pivoted the horizontal catch or pawl *F*. One end, *F'*, of the pawl *F* is shaped into a handle; the other is slotted to admit the pendant *G*. The side of

the slot *e* nearest the middle of the pawl is beveled to form a tooth, *f*, adapted to engage the notches in the pendant *G*. The pawl is engaged when brought into a horizontal position, and is released by raising its handle *F'*, and by the same movement the leaf *D* may be elevated or depressed at its working side, the pawl *F* while inclined moving up or down upon the hanger *G*.

The drawings show the notches to be on the rear side of the hanger *G*; but they may be formed on the opposite or front side as well; but in that case the tooth *f* must be at the opposite side of the slot *e*, so as to properly engage said notches.

An elevating device, consisting of a crank, *H*, shaft *I*, journaled to the disk *A*, a band, *K*, and roller *L*, also a lock consisting of the block *O*, spool *Q*, and trigger *P*, are used in my camera-stand patented July 29, 1884, No. 302,639. In this stand, however, I use but one spool *Q* and place it at a corner of the elevator shaft or frame, which said corner is chamfered off to present a plane surface to the spool *Q*. By this arrangement the pressure, when the lock is applied, comes between this beveled corner and two opposite sides of the main frame, which prevents tipping to either side, as might happen when the pressure is between one side and the lock. By placing the lock at the corner shown in the drawings the wire *P* sets out obliquely between two legs of the stand conveniently to the operator. A receptacle, *W*, in which to set the plate-holder while adjusting the camera, is attached to the rear of the stand.

My camera-stand caster consists of the plate *R*, having suitable screw-holes, *r' r'*, a shoulder, *M*, and two semicircular perforated guides, *r*, for the stem *S*. This stem is forked below to form bearings *S'* for the wheel *N*, as ordinarily made; but in the body of the stem *S*, I form a groove, *T*, at a part covered by one of the guides *r*, (the upper one in the drawings,) and opposite this groove *T* drill a small hole through the plate *R* and insert a pin, *t*, which enters the groove *T* and prevents the stem *S* from dropping out when not in use, but does not hinder its rotary motion. The pin is secured to the plate by wedging or in

any preferred manner, and need not be very heavy, as the shoulder M and guides *r r* bear the strain of service.

I am aware that a platform-supporting frame passing vertically through the main frame of a stand is not new; also that the use of crank, band, and pulley is well known, and I do not broadly claim these; but

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

1. A tilting and locking device, consisting in hinged or folding leaves, to the free side of one of which leaves is fixed a notched rod or plate, and to the corresponding side of the other leaf is pivoted an arm, to which is hung a pawl adapted to engage the notches of said fixed plate, as herein described.

2. In a camera-stand, the top C, notched pendant G, hinged leaf D, pivoted arm E, pivoted pawl F, handle F', slot *e*, and tooth *f*, as set forth.

3. In combination with the main frame A A' and the elevating device H I K L, the vertically-movable frame B, having a beveled face, B', the block O, trigger P, and spool Q, as herein set forth.

4. A camera-stand consisting of the frames A A', legs *a a a*, furnished with casters formed of the plate R, having screw-holes *r' r' r'*, shoulder M, guides *r r*, stem S, journal-crotch S', wheel N, groove T, and pin *t*, the elevating apparatus B B' H I K L, the lock O P Q, top C, leaf D, pendant G, arm E, pawl F, having the handle F', slot *e*, and tooth *f*, as herein described.

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

JAMES H. SMITH.

Witnesses:

CARL F. VON BRUNCK,
THOMAS W. PATTISON.