

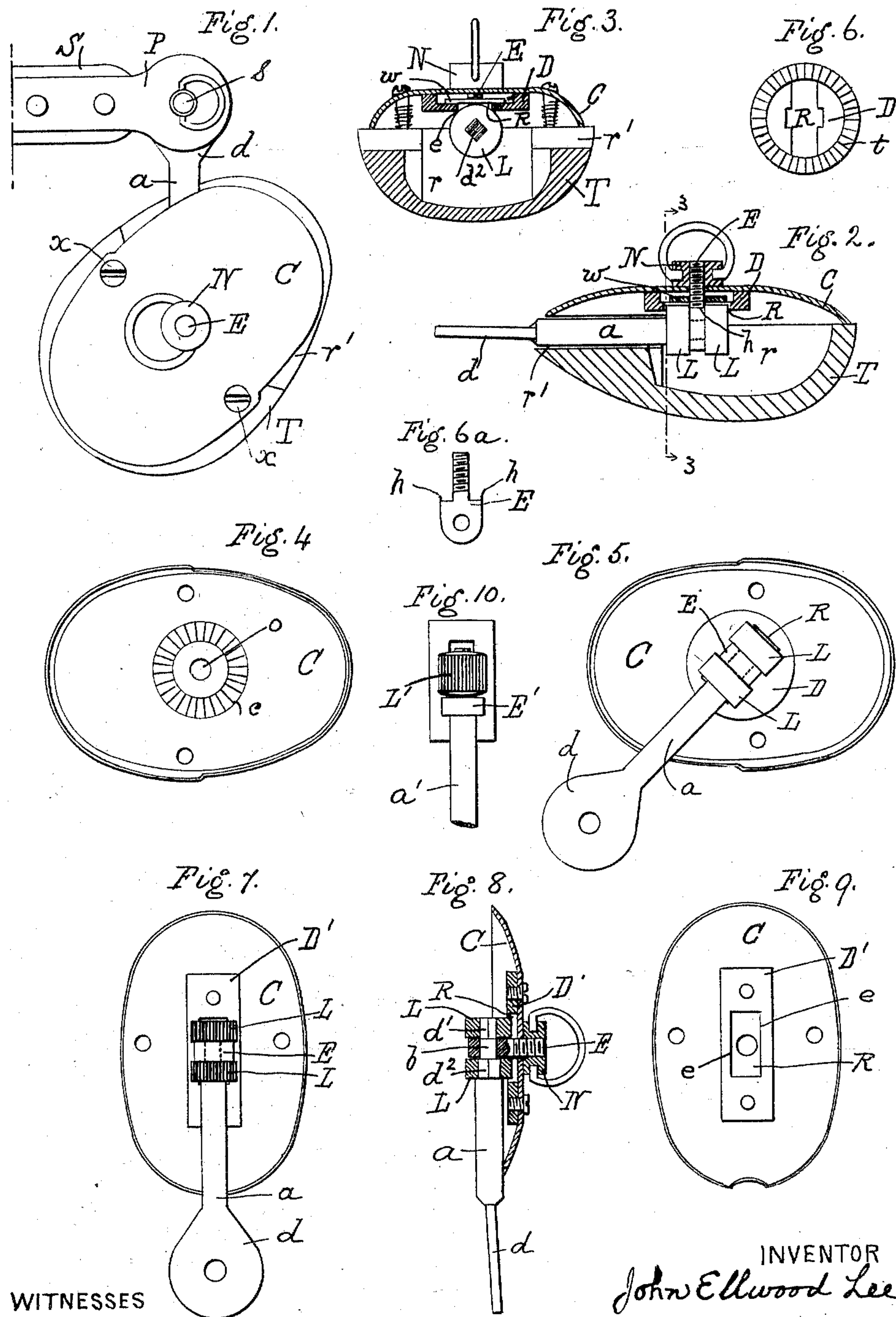
No. 760,217.

PATENTED MAY 17, 1904.

J. E. LEE.  
TRUSS.

APPLICATION FILED JAN. 5, 1904.

NO MODEL.



WITNESSES

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# UNITED STATES PATENT OFFICE.

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## TRUSS.

SPECIFICATION forming part of Letters Patent No. 760,217, dated May 17, 1904.

Application filed January 5, 1904. Serial No. 187,774. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN ELLWOOD LEE, a citizen of the United States of America, residing in Conshohocken, in the county of Montgomery, State of Pennsylvania, have invented Improvements in Trusses, of which the following is a specification.

This invention relates to trusses, and has for its object to provide an improved adjustable fastening device between the pad-carrying arm of a truss and the pad, and, further, to enlarge the possibilities of adjustment of said pad on its arm.

In the accompanying drawings, Figure 1 is a front view of a pad and one end of the truss-spring. Fig. 2 is a longitudinal sectional view through the pad. Fig. 3 is a transverse section on the line 3-3, Fig. 2. Fig. 4 is a view of the inner face of the cover-plate of the pad. Fig. 5 is a similar view, but with the pad-carrying arm in position. Fig. 6 is a view of the inner face of the clamping-disk. Fig. 6<sup>a</sup> is a detail of the screw-eye. Fig. 7 is a view, similar to Fig. 5, of a modification. Fig. 8 is a central longitudinal section of the same, and Fig. 9 is a view of the inner face of the cover-plate of this modification. Fig. 10 is a view of a detail of a further modification.

S indicates the usual truss-spring, to which a clamping-plate P is riveted. At its extremity the plate P is disk-shaped, and a disk  $d$  is clamped to it by a thumb-screw  $s$ , so that a pad-carrying arm  $a$ , integral with the said disk  $d$ , may be adjusted to any suitable angle and secured after adjustment.

The outer end of the arm  $a$  carries the pad T, to which it is attached by a cover-plate C, adjustably secured to the arm and secured by screws  $x$ , Fig. 1, to the pad. The pad has a recess  $r'$  in its body and an open portion  $r$  beneath the rear half of the cover-plate.

Around a central opening  $o$  in the cover-plate C, I preferably form serrations  $e$ , Fig. 4, against which the serrated teeth  $t$  of the disk D, Figs. 3 and 6, may abut. The disk D is formed with a central rectangular slot R,

Fig. 6, having sharp lower edges  $e$ , Fig. 3. The arm  $a$  near its end is preferably formed of two rectangular portions  $d'$   $d''$  and an intermediate bearing  $b$ , Fig. 8. On the rectangular portions collars L L are rigidly secured, while a screw-eye E is held between them so as to be freely rotatable on the arm  $a$ .

The threaded end of the screw-eye is passed through the cover-plate, and a thumb-nut N is screwed down upon it, thus bringing the collars firmly against the sharp edges  $e$  of the disk D to firmly hold the cover-plate C and arm  $a$  in adjusted position, Figs. 2, 3, and 5.

The screw-eye E has squared shoulders  $h$ , Fig. 6<sup>a</sup>, at the meeting of the threaded stem and the eye, so as to snugly fit into the slot R, and thus to so secure the screw-eye to the disk as to cause them to turn together on the common axis of the disk and threaded stem. A washer  $w$ , threaded onto the stem of the screw-eye E and maintained in a circular recess in the disk D, serves to hold the parts together for convenience in assembling.

In Figs. 7 to 9 instead of the swiveling disk D, I have shown a rectangular plate D' rigidly secured to the cover-plate. In all other respects this modification is similar to that before described.

The pad of the device of Figs. 1 to 5 may be adjusted rotarily by means of the single thumb-nut N either about the stem of the screw-eye as an axis or about the arm  $a$  as an axis.

The pad of the device of Figs. 7 to 9 in view of the fixed plate D' may only be moved rotarily about the arm  $a$  as an axis.

Instead of the two collars and the screw-eye between them I may form one collar L' on the arm  $a'$  and secure the screw-eye E' adjacent to one end of it, as shown in Fig. 10. In either case great precision of adjustment may be readily secured, and on account of the sharp edges  $e$ , which grip into the metal of the collars L L, permanency of adjustment is insured.

I claim as my invention—

1. A truss, having a pad, a spring and a pad-carrying arm therefor, a cover-plate for the



pad provided with projecting clamping edges, a clamping-collar on the rod, and a screw-eye thereon, and connected to the cover-plate adapted to draw said collar against the clamping edges, substantially as described.

2. A truss having a pad, a spring and a pad-carrying arm therefor, a cover-plate for the pad provided with projecting clamping edges, a clamping-collar on the rod and a screw-eye connected to the rod and to the cover-plate adapted to draw said collar against the clamping edges, in combination with means for turning the pad with the screw as an axis, substantially as described.

3. A truss, having a spring and a swiveling arm therefor, a screw adapted to fasten the arm and pad, and a clamping device, said pad adapted to be turned on the screw as an axis, in combination with means for rotating the pad on the arm as an axis, substantially as described.

4. A truss, having a spring, a swiveling arm therefor, and a pad at the end of the arm, a cover-plate for the pad, a plate on the cover-plate provided with clamping edges, two clamping-collars on the arm, a screw rotatably secured between the two said collars and

passing through the cover-plate, and a nut for the screw, substantially as described.

5. A truss, having a spring, a swiveling arm therefor, and a pad at the end of the arm, a cover-plate for the pad, a plate on the cover-plate provided with clamping edges, two clamping-collars on the arm, a screw rotatably secured between the two said collars and passing through the cover-plate and a nut for the screw, in combination with means for rotating said plate with clamping edges on said cover-plate, substantially as described.

6. A truss having a spring and a pad-carrying arm, rectangular-shaped portions therefor, two cylindrical collars having central openings to fit said rectangular portions, a bearing between said two collars, a screw-eye fitting said bearing and projecting through the cover-plate and a nut for said screw-eye, substantially as described.

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

JOHN ELLWOOD LEE.

Witnesses:

M. E. WRIGHT,  
A. A. BARR.