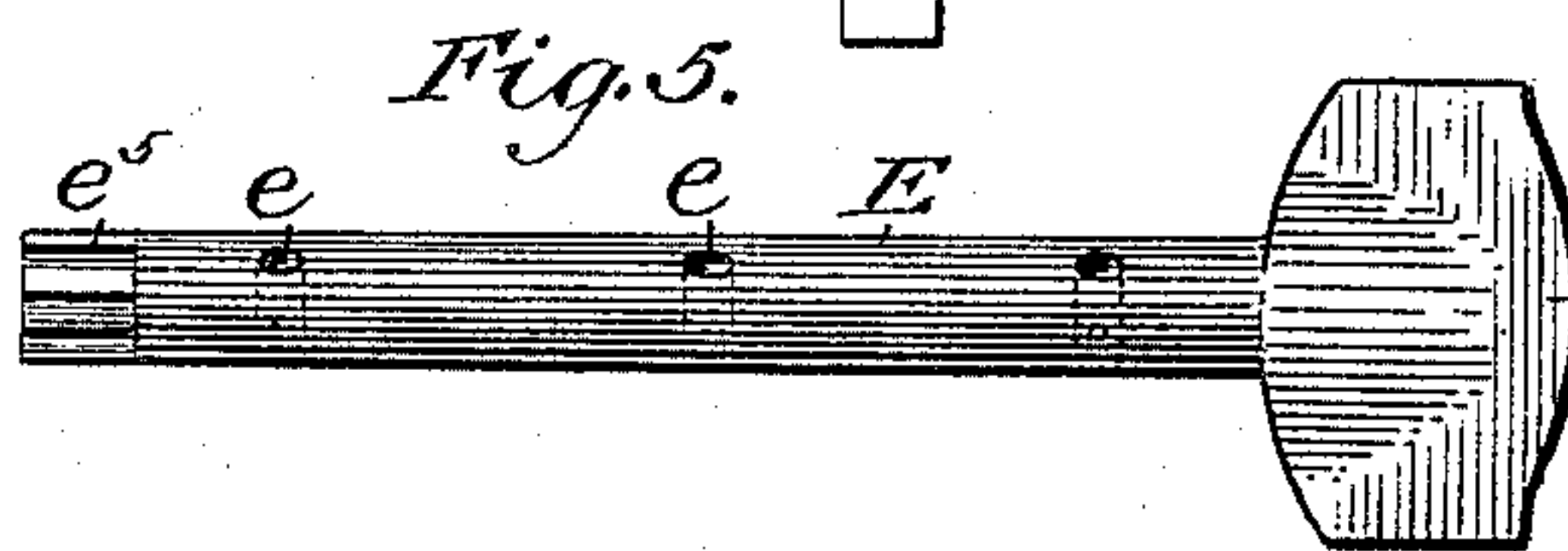
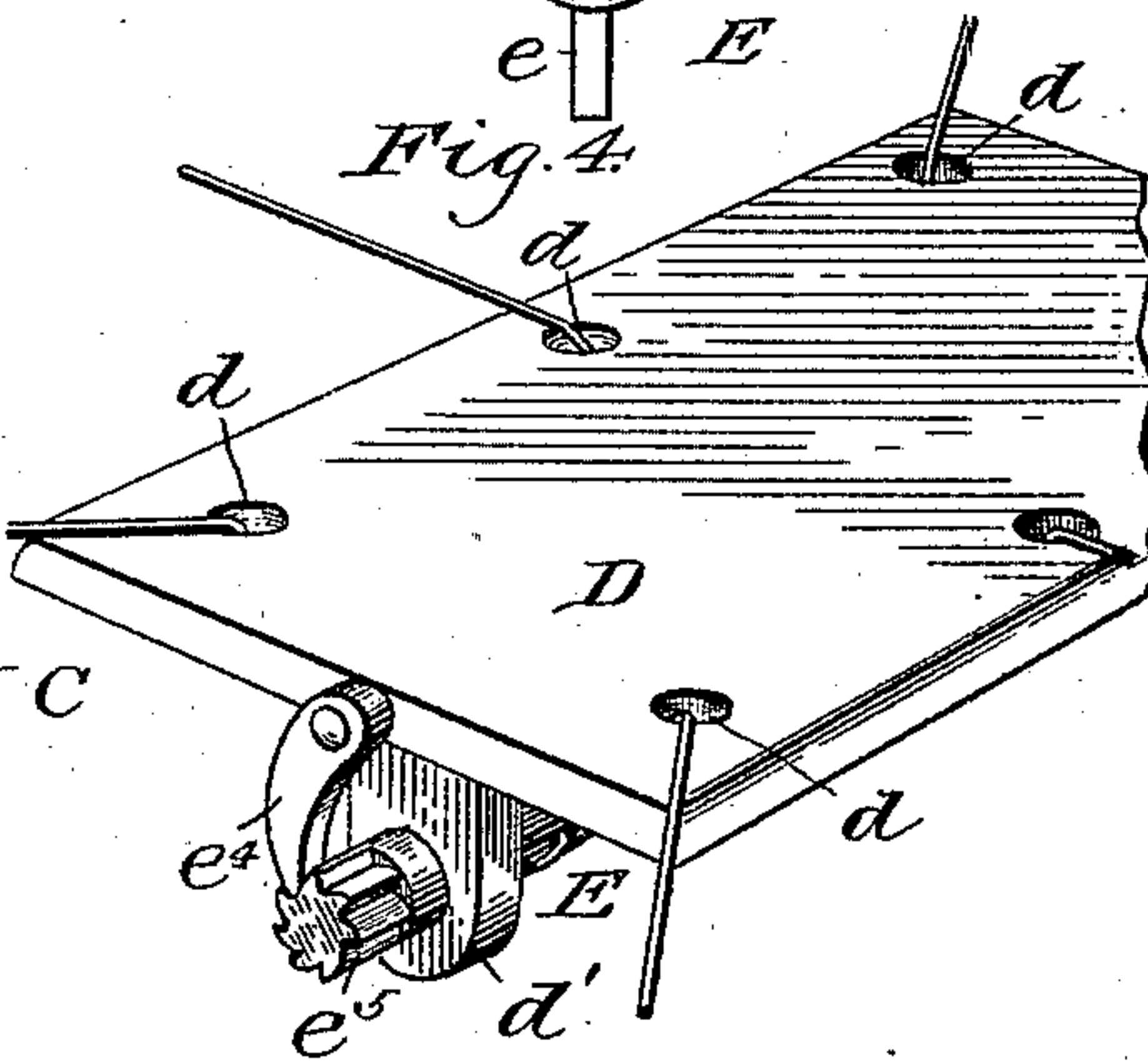
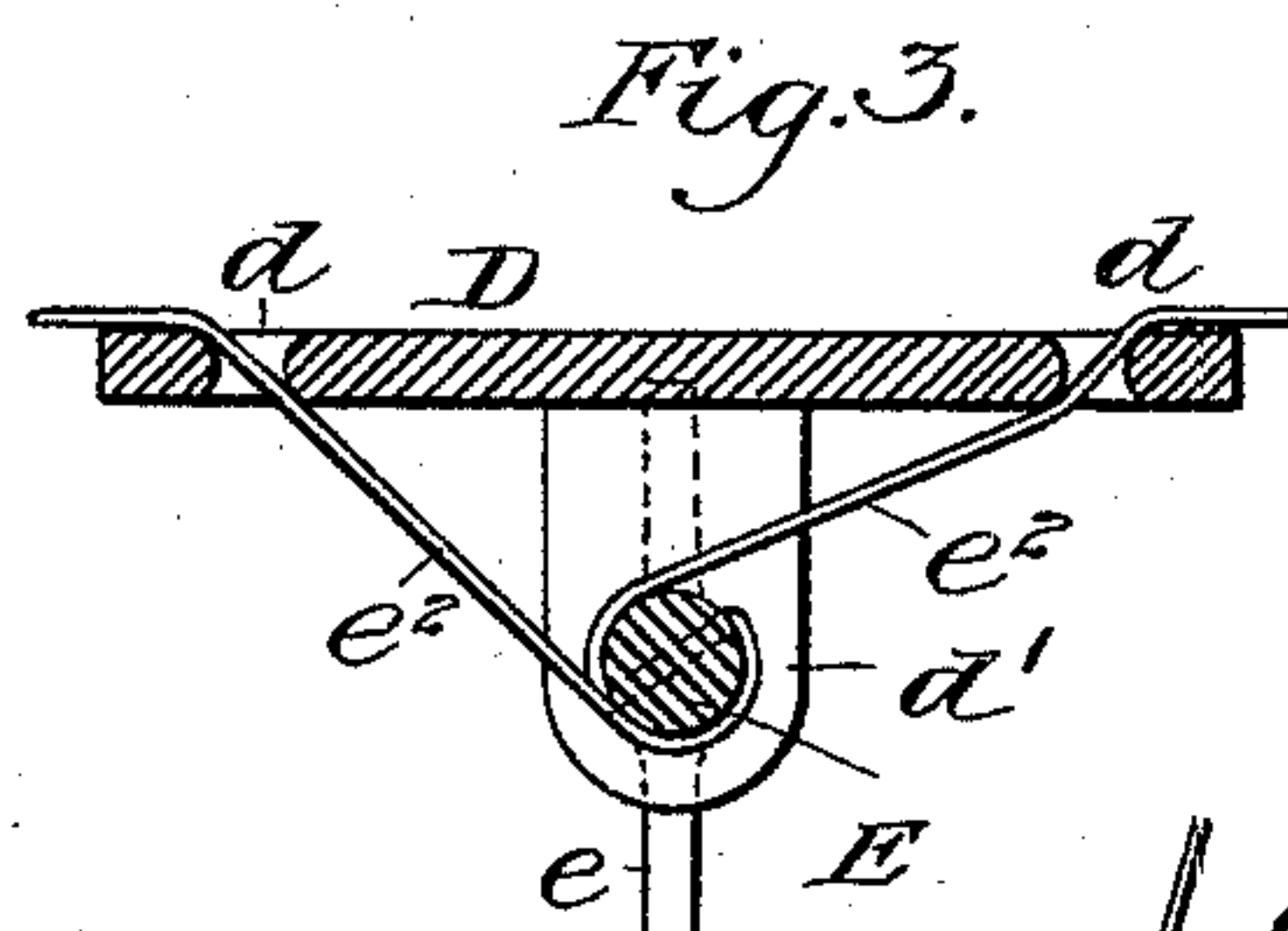
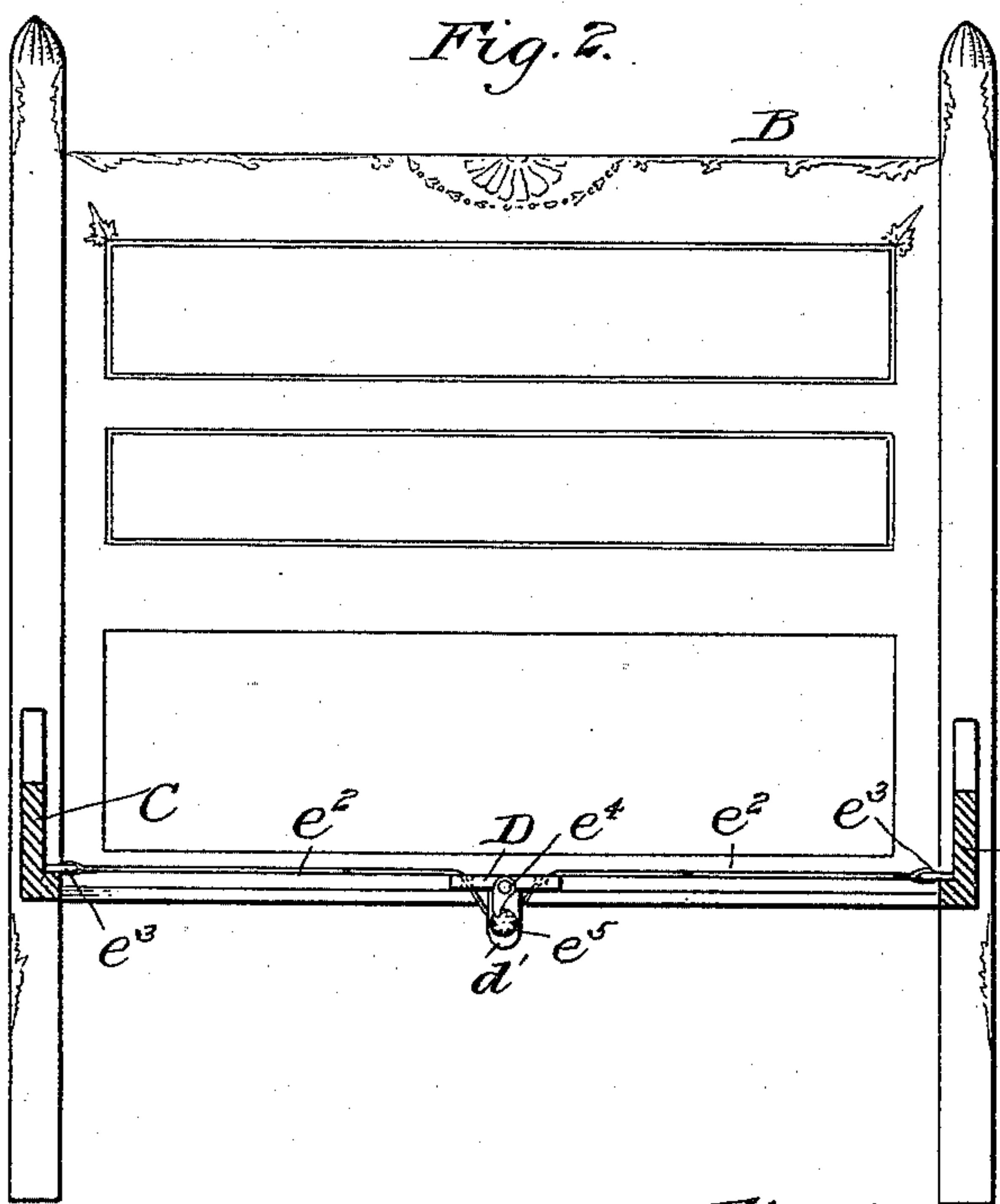
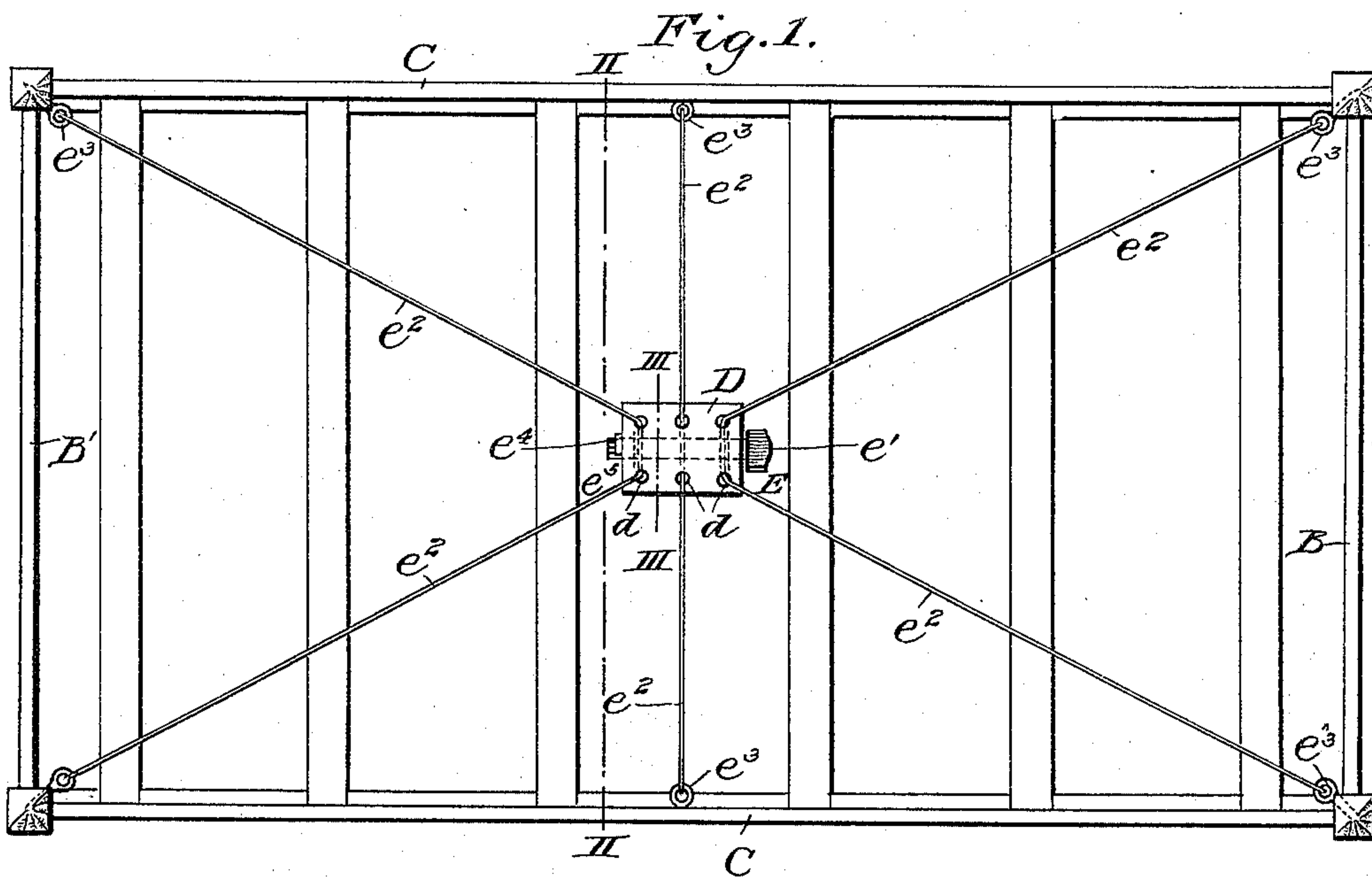


(No Model.)

J. F. SACHS.  
BED BRACE.

No. 540,113.

Patented May 28, 1895.



Witnesses:  
L. A. Comer, Jr.  
Chas. E. Riordan.

Inventor:  
J. F. Sachs  
By Butcherworth  
& Dowell



# UNITED STATES PATENT OFFICE.

JULIUS F. SACHS, OF CLIFTON FORGE, VIRGINIA.

## BED-BRACE.

SPECIFICATION forming part of Letters Patent No. 540,113, dated May 28, 1895.

Application filed July 2, 1894. Serial No 516,308. (No model.)

*To all whom it may concern:*

Be it known that I, JULIUS F. SACHS, a citizen of the United States, residing at Clifton Forge, in the county of Alleghany and State of Virginia, have invented certain new and useful Improvements in Bed-Braces; 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.

This invention relates to furniture braces, but more particularly to braces for holding the sections of bedsteads together.

The invention will first be described with reference to the accompanying drawings, and then pointed out in the claims at the end of the description.

Referring to the drawings forming a part of this specification, Figure 1 is a plan view of a bedstead with the brace in position for use. Fig. 2 is a vertical sectional elevation on the line II II of Fig. 1. Fig. 3 is a vertical sectional view through the brace, taken on the line III III of Fig. 1. Fig. 4 is a perspective view of the brace, illustrating the means employed for retaining the tightening drum or key in a fixed position; and Fig. 5 is an elevation of the tightening drum or key.

In the drawings A may designate a bed of any suitable construction, having the usual head and foot sections B, B', respectively, and the side-rail sections C, which support the transverse slats in any well-known manner. Centrally arranged between the sections of the bed is a plate or bracket D preferably rectangular and arranged in a line approximately the same as the slats of the bedstead. This plate is provided with apertures *d* extending through the same which may be placed in any desired position, though I prefer to arrange the said apertures as indicated in the drawings, where three are located near the edge of each of the longest sides of the rectangular plate. Depending from the under side of the plate D are the supports or bearings *d'*, *d'* secured thereto or formed integrally therewith; the said supports having suitable apertures in which a drum or key E is adapted to rotate. The key E is provided with apertures *e* passing through the same and in line with the apertures of the plate D for a purpose to be stated. This key or drum may be

provided with any suitable means for turning the same, but I prefer to simply enlarge one of its ends to form a head *e'* which serves as a convenient and ready means for grasping the key with the hand. Through the apertures of the plate D and the key or drum E are passed the ends of the tension wires *e*<sup>2</sup>, or other flexible material, which extend in opposite directions and are slightly turned to prevent their slipping or being withdrawn from the key when the same is rotated. These wires after passing through the apertures of the plate D, which apertures are slightly rounded to prevent abrasion of the surface of the wire, extend to the different sections of the bedstead to which they are secured by the hooks or eyes *e*<sup>3</sup>. I preferably arrange these hooks or eyes at the opposite ends of the head and foot sections respectively and in the central portion of the side rails C, as best shown in Fig. 1. This construction causes the wires to extend both diagonally and transversely and permits the strain to be taken up in all directions, particularly at the points where separation of the parts is most likely to occur.

To prevent the key or drum E from yielding to the tension of the wires after rotating the same, I provide a pawl or dog *e*<sup>4</sup> pivotally secured to the plate or bracket D, the end of which engages the ratchet wheel or serrated end *e*<sup>5</sup> of the key, as best shown in Fig. 4.

The operation of the device will be readily understood from the foregoing description. It will be seen that when the plate or bracket D is suspended by the wires as illustrated, and the key or drum E rotated, the tension wires will be wound around the drum or key and will be retained in that position by the pawl *e*<sup>4</sup> engaging the serrated end *e*<sup>5</sup> of the said drum. By lifting or disengaging the pawl from the key the tension wires may be loosened and the brace removed from the bedstead, if so desired.

I am aware that bed-braces of a somewhat similar character have heretofore been proposed, and hence I make no broad claim to such contrivances.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A bed brace comprising a horizontally



arranged rectangular plate having a series of perforations near the edges thereof upon either side of its longitudinal center, and a pair of apertured brackets or supports depending therefrom, together with a rotatable key journaled in said supports and provided with a projecting serrated end-portion or ratchet and a pivoted pawl engaging the same, and a suitable handle or device for rotating said key, substantially as described.

2. A bed brace comprising a horizontally arranged rectangular plate having a series of perforations near the edges thereof upon either side of its longitudinal center, and a pair of apertured brackets or supports depending therefrom, together with a rotatable key journaled in said supports and provided with

a projecting serrated end-portion or ratchet and a pivoted pawl engaging the same, and wires secured to the bed-frame or bedstead on opposite sides thereof, extending thence through the perforations in said plate and having their opposite ends secured to said rotatable key, so as to be readily wound thereon or unwound therefrom, and a suitable handle or device for rotating said key, substantially as described.

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

JULIUS F. SACHS.

Witnesses:

J. V. RYALS,

J. H. GOLDEN.