

(No Model.)

T. W. CARTER.

BEAM TRUSS.

No. 252,929.

Patented Jan. 31, 1882.

Fig. 1.

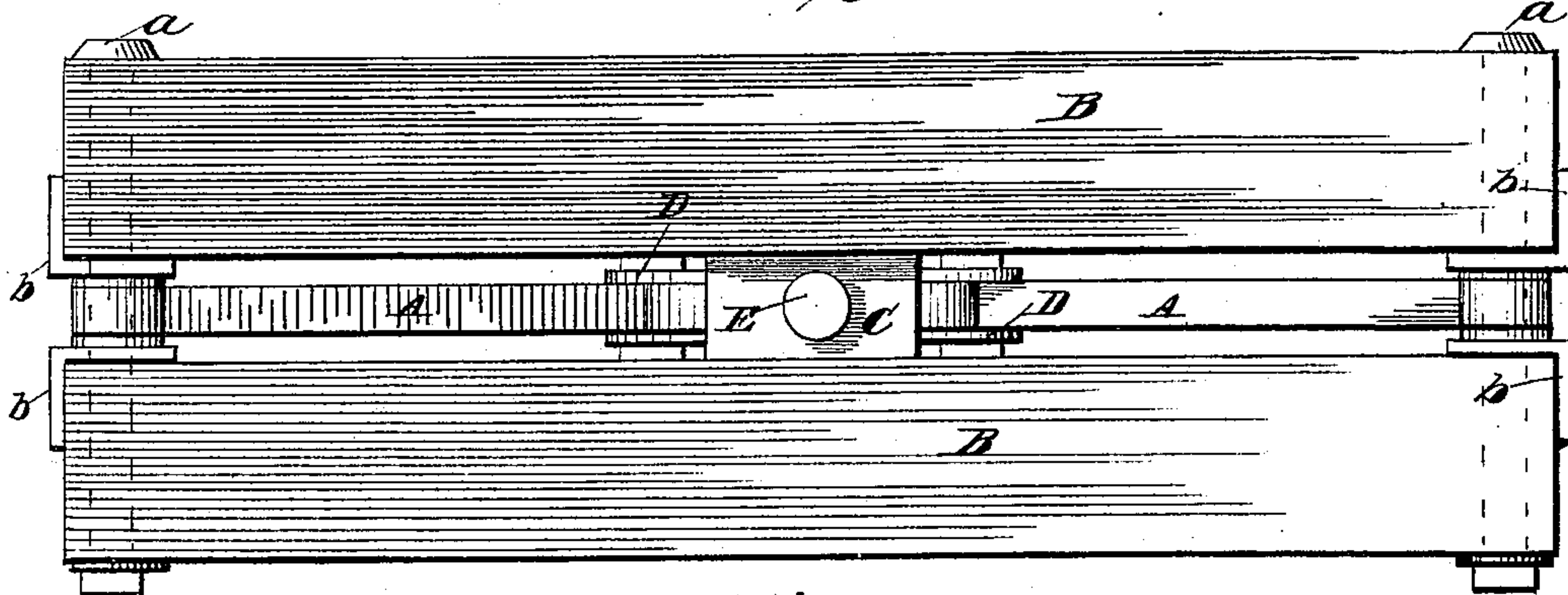


Fig. 2.

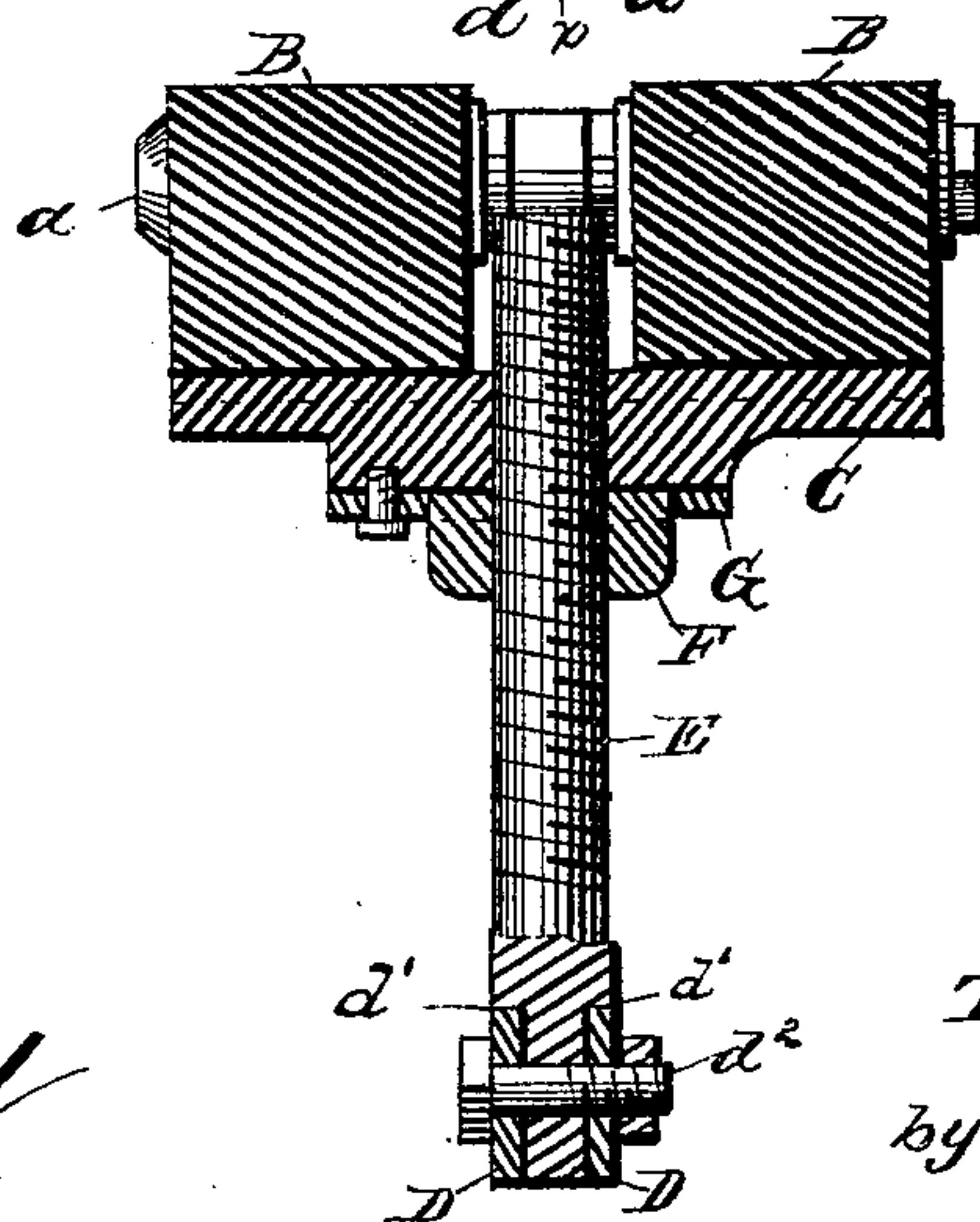
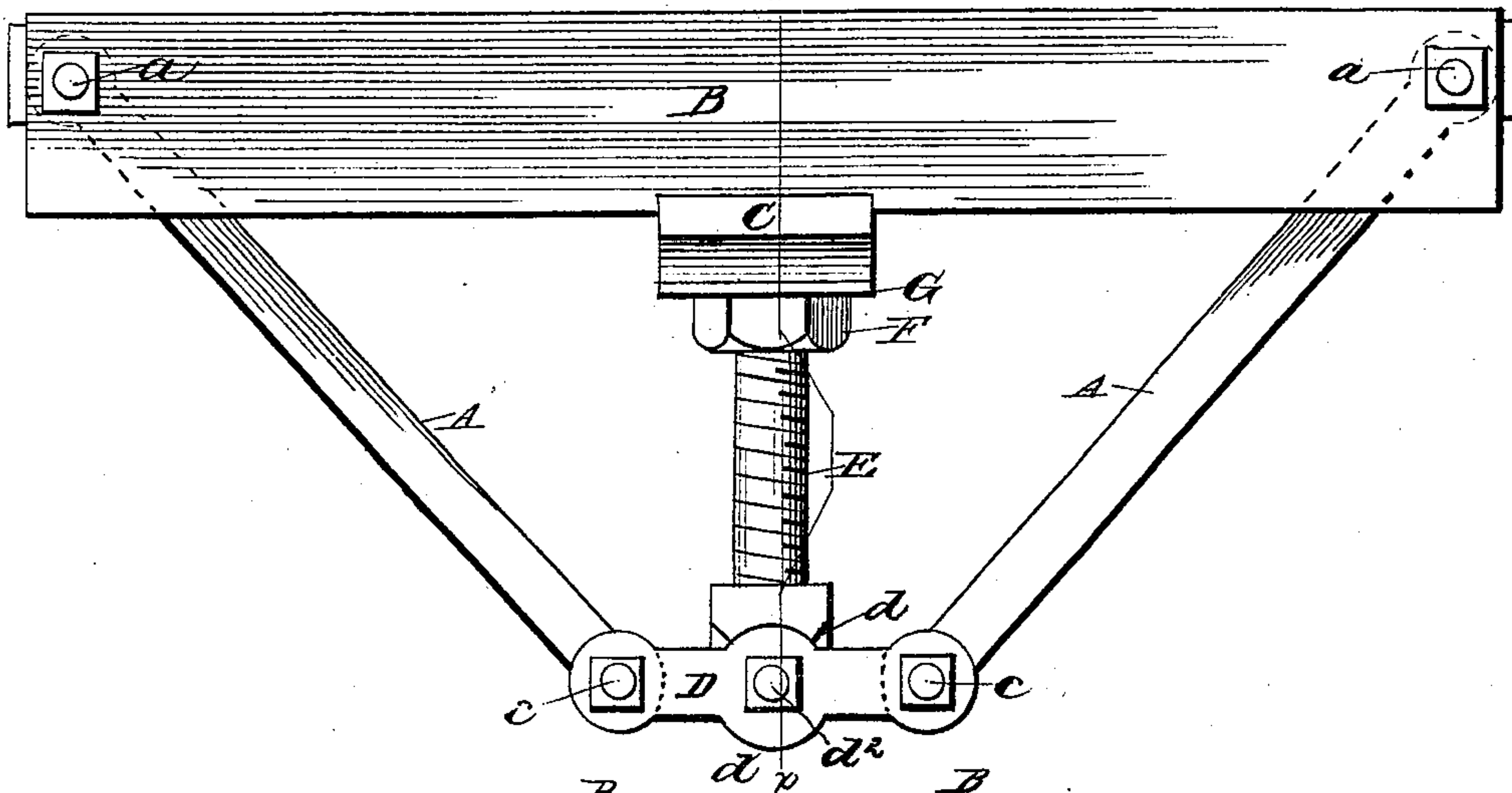


Fig. 3.

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UNITED STATES PATENT OFFICE.

THOMAS W. CARTER, OF NEW ORLEANS, LOUISIANA.

BEAM-TRUSS.

SPECIFICATION forming part of Letters Patent No. 252,929, dated January 31, 1882.

Application filed November 5, 1881. (No model.)

To all whom it may concern:

Be it known that I, THOMAS W. CARTER, a citizen of the United Kingdom of Great Britain, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented certain new and useful Improvements in Adjustable Beam-Trusses; 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification, and in which—

Figure 1 represents my improved beam truss or brace as viewed from the upper side. Fig. 2 is a side elevation; and Fig. 3 is a vertical section thereof, taken through the line xx of Fig. 2.

The purpose of this invention is to provide a convenient and efficient means for leveling or straightening sprung or cambered beams; and it consists in the combination and arrangement of parts, substantially as hereinafter more fully set forth.

In carrying out my invention I employ two stout iron braces or rods, $A A$, the upper or outer ends having bolts a passing through them.

Upon the bolts a and each side of the braces A are placed washers and plates b , each bent so as to fit against the corners of the beams, to which they may be bolted or fastened. These plates and washers hold the braces intact with and centrally between the beams.

The lower or inner end of the braces A are articulated by means of headed and nutted bolts c to or between parallel plates or links D , provided with semicircular shoulders or projections d at their centers on their upper sides, which bear in concaved shoulders d' upon the pillar-screw E , which is connected by a pivotal bolt, d^2 , to the links, to allow the links to readily accommodate themselves to slight variations of movement between the braces, according as a difference of pressure or strain is brought upon either of the outer ends of the braces.

The lower end of the screw is provided with plain sides, to permit the levers or plates D to fit against them.

Equidistant between the ends of the braces a bearing cushion or block of metal, C , is secured to the beams upon their under sides, having an aperture through it. The screw is fitted with a nut, F , resting against the bearing block or cushion C , through whose aperture the screw passes.

To apply the device, connect the free ends of the rods by their bolts to and between the ends of the beams, the plates b having been slipped on the said bolts, so as to fit against and hold the rods centrally between the beams. Then screw up the nut, which will force the screw down and its bearing-block upward, transmitting upward pressure upon the center of the beams, an endwise pull simultaneously being exerted upon the ends of the beams. This operation is continued until the beams are leveled or straightened.

G is a lock-plate slipped around the nut, and resting upon the bearing, to prevent the accidental or possible unscrewing of the nut.

It is obvious that shrinkage can be readily compensated by readjusting the truss or braces.

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

1. The combination, with the central bearing-block, nut, and pillar-screw, having the concaved shoulders, of the pivoted semicircular-shouldered plates or levers and the articulated braces, substantially as and for the purpose set forth.

2. The combination, with the central bearing-block, nut, and pillar-screw, of the pivoted plates or levers and the articulated braces, substantially as and for the purpose set forth.

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

THOMAS WHINREY CARTER.

Witnesses:

LOUIS BARNETT,
JOHN ROY.