

No. 639,384.

Patented Dec. 19, 1899.

J. W. HEATON.
JOURNAL BOX.

(Application filed May 27, 1899.)

(No Model.)

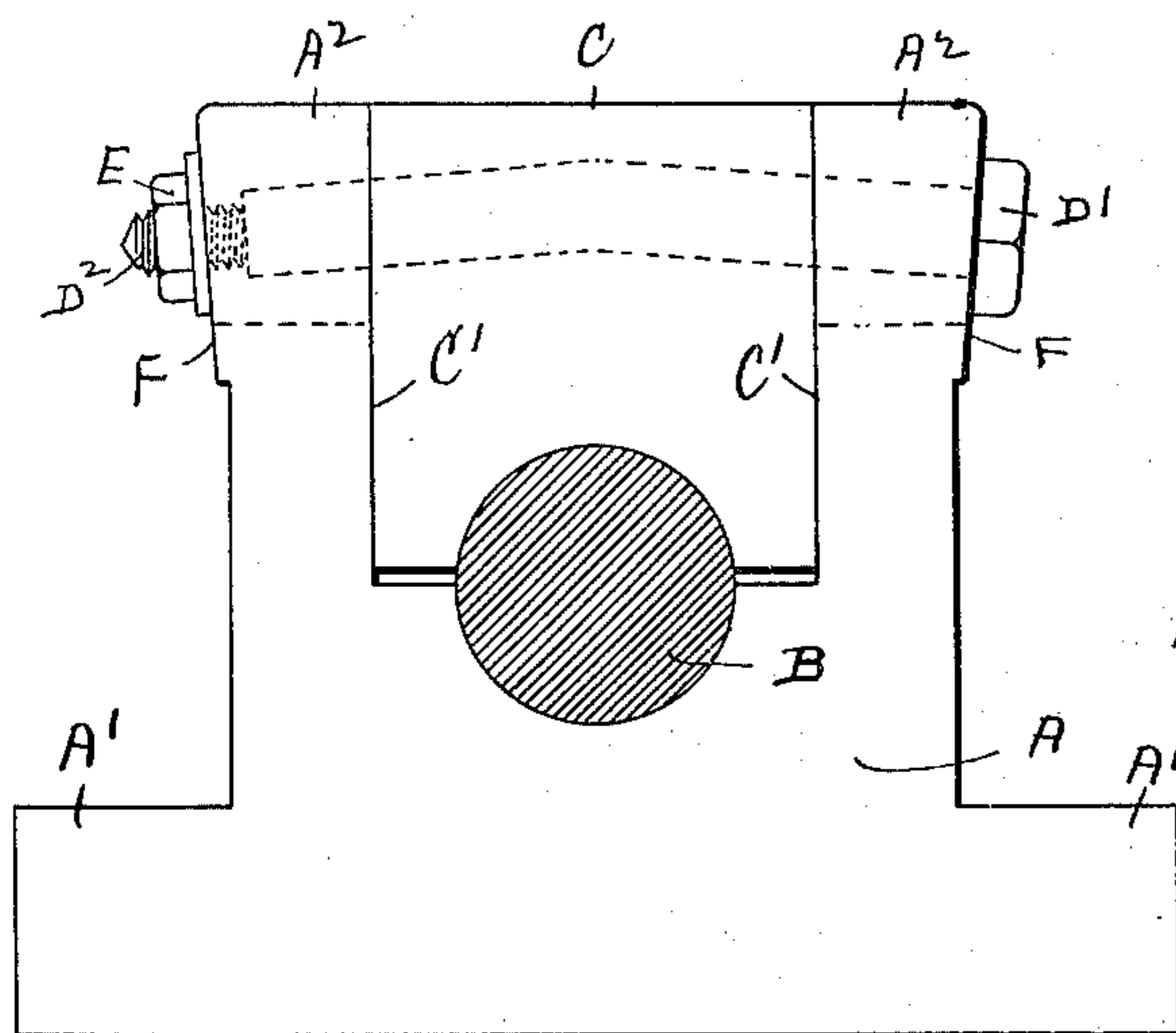


FIG. 1.

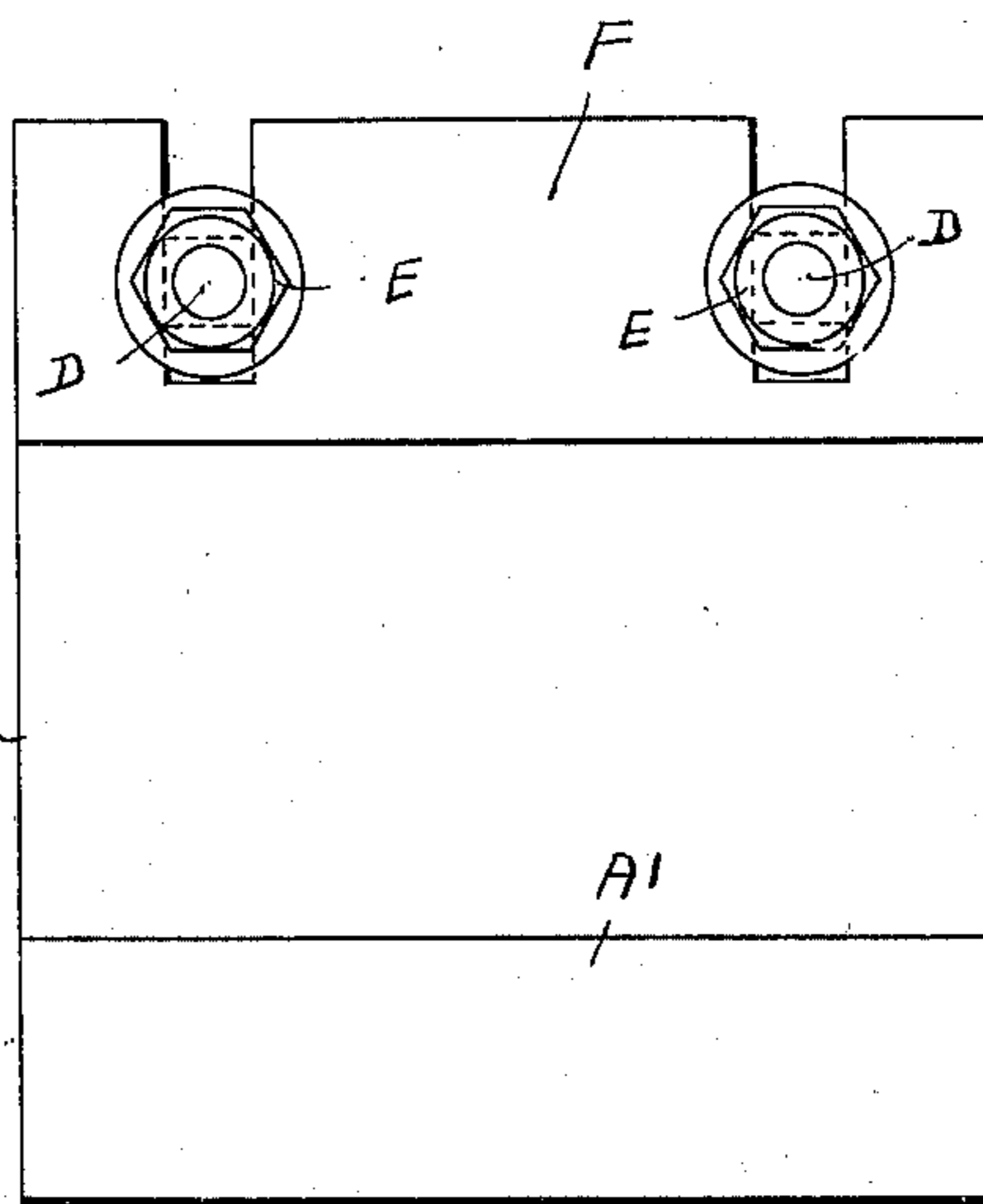


FIG. 2.

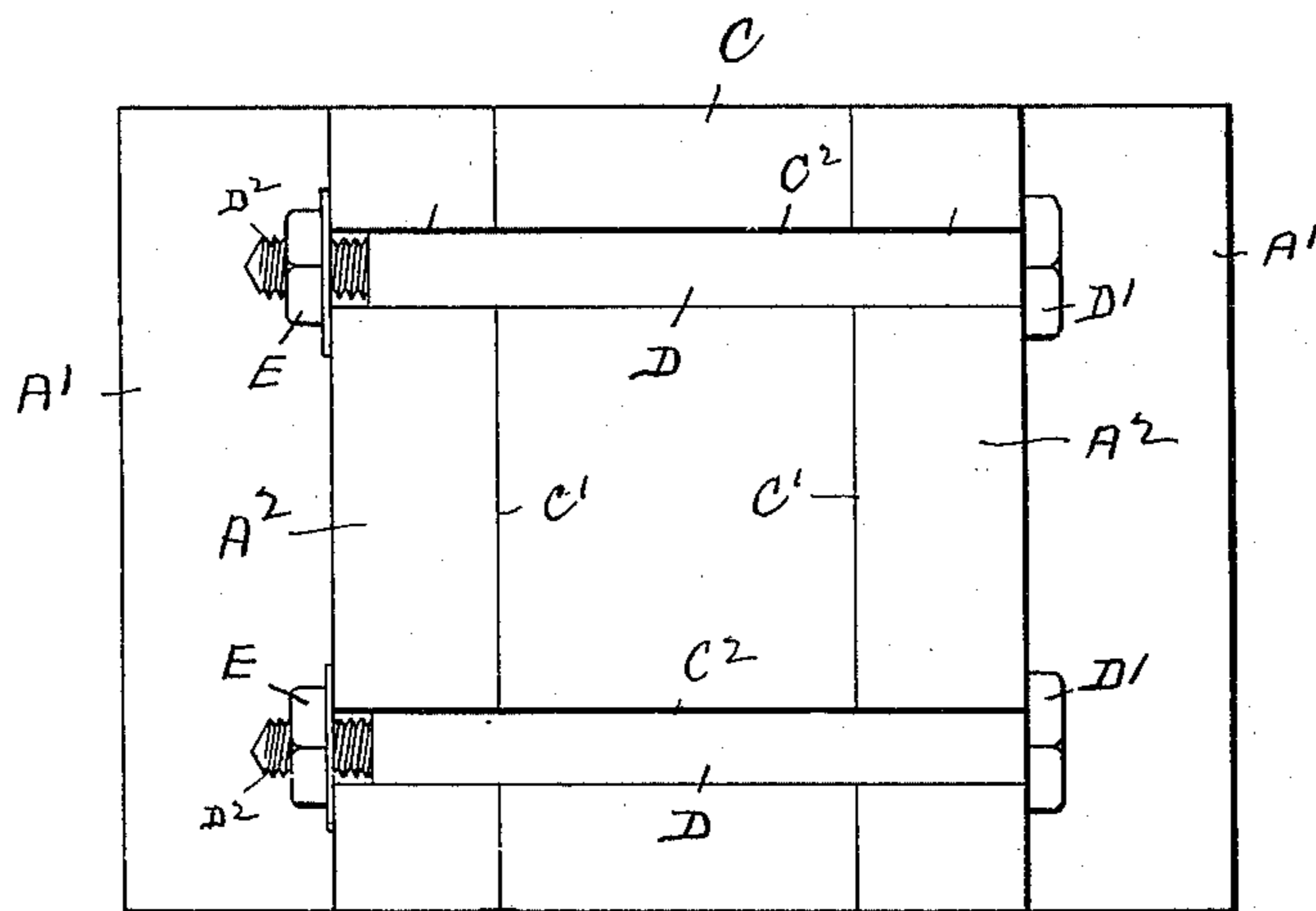


FIG. 3.

Witnesses:
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JOURNAL-BOX.

SPECIFICATION forming part of Letters Patent No. 639,384, dated December 19, 1899.

Application filed May 27, 1899. Serial No. 718,476. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. HEATON, of Chattanooga, Hamilton county, in the State of Tennessee, have invented a new and useful Improvement in Journal-Boxes, of which the following is a specification, accompanied by drawings forming a part of the same, and in which—

Figure 1 represents an end view of a journal-box embodying my invention. Fig. 2 is a side view of the same, and Fig. 3 is a plan view.

Similar reference-letters refer to similar parts in the different figures.

My invention relates to an improvement in that class of journal-boxes in which the cap is clamped by tightening the bolts between the sides of the box, and thereby held in position upon the shaft journaled within the box; and it consists in providing means by which the cap is prevented from working loose owing to the jar and vibration of the machine when in operation.

Referring to the drawings, A denotes the body of the box, in the present instance provided with flanges A' A', by which it may be attached to the framework of the machine. B denotes a shaft journaled therein, and C the cap inclosed between the vertical walls C' C' of the upwardly-extending sides A² A² of the box. The cap C is provided with transverse slots C² C², and the sides A² A² of the box are provided with corresponding slots in alinement with the slots in the cap when the cap is placed in position, said slots being adapted to receive bolts D D, having heads D' D' and screw-threaded ends D² D², adapted to receive the tightening-nuts E E. The outer walls of the sides A² A² are provided with cheeks, presenting beveled surfaces F F to receive the pressure of the bolt-heads D' and tightening-nuts E, said cheeks being thicker at the top than at the bottom, so that the surfaces F F will form an acute angle with the vertical sides of the box, making the box slightly wider at the top. After the shaft B is in position the cap C is placed upon it, with the slots in the cap in alinement with the slots in the vertical sides of the box. The bolts D are then placed in the slots and the tightening-nuts applied thereto, bringing the pressure of the bolt-heads and nuts against the beveled surfaces of the box and holding the bolts from being moved up-

wardly by the jar or vibration of the machine. The bolts rest upon the bottoms of the slots in the cap C, but clear the bottoms of the slots in the side walls of the box in order to allow the caps to be moved downwardly to take up wear.

In order to cause the bolt-heads and tightening-nuts to bear squarely upon the beveled sides of the box, I form a slight bend in the central section of the bolt in order to bring the axes of the bolts at each of their ends at right angles with the beveled surfaces F F, and the bottom of the slot in the cap C is similarly curved to fit the bend in the bolts. I do not confine myself, however, to the employment of a bent bolt, the essential feature of my invention consisting in providing beveled surfaces upon the outside of the clamping-walls of a journal-box of the class described adapted to receive the pressure exerted by the clamping-bolts and prevent the bolts from being lifted.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a journal-box, having a cap clamped between the sides of the box, the combination with clamping bolts and nuts, of beveled cheeks on the outer sides of the box adapted to receive the pressure of the bolt-heads and tightening-nuts, whereby the box is made wider at the top and the clamping-bolts prevented from lifting, substantially as described.

2. The combination of a journal-box, having a cap, box sides inclosing the sides of said cap, bolts extending through said sides and across said cap, nuts carried by said bolts, said sides having beveled outer surfaces to receive the pressure of the clamping-bolts, whereby the bolts are held from being raised, substantially as described.

3. The combination of a journal-box A, having sides A², A², a cap C inclosed between said sides, clamping-bolts by which said sides are drawn against said cap, and beveled surfaces F, F, arranged to receive the pressure of said bolts, whereby said bolts are prevented from being lifted, substantially as described.

Dated this 4th day of March, 1899.

JOHN W. HEATON.

Witnesses:

WILL. P. HOLLAND,
SIDNEY J. HOGAN.