

(Model.)

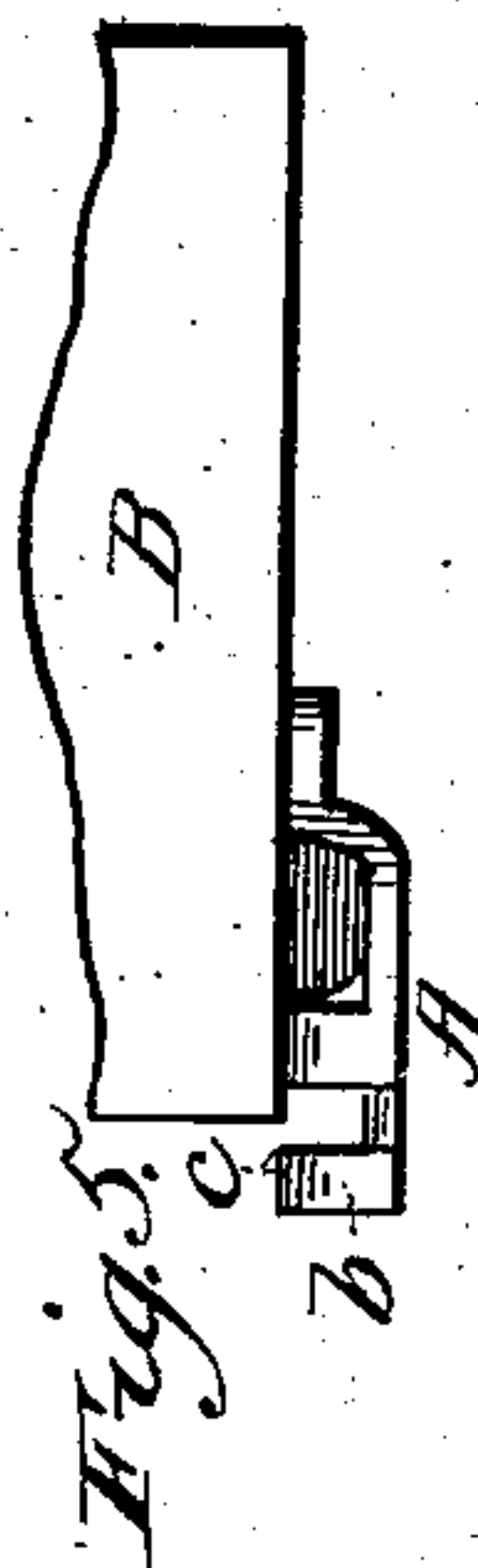
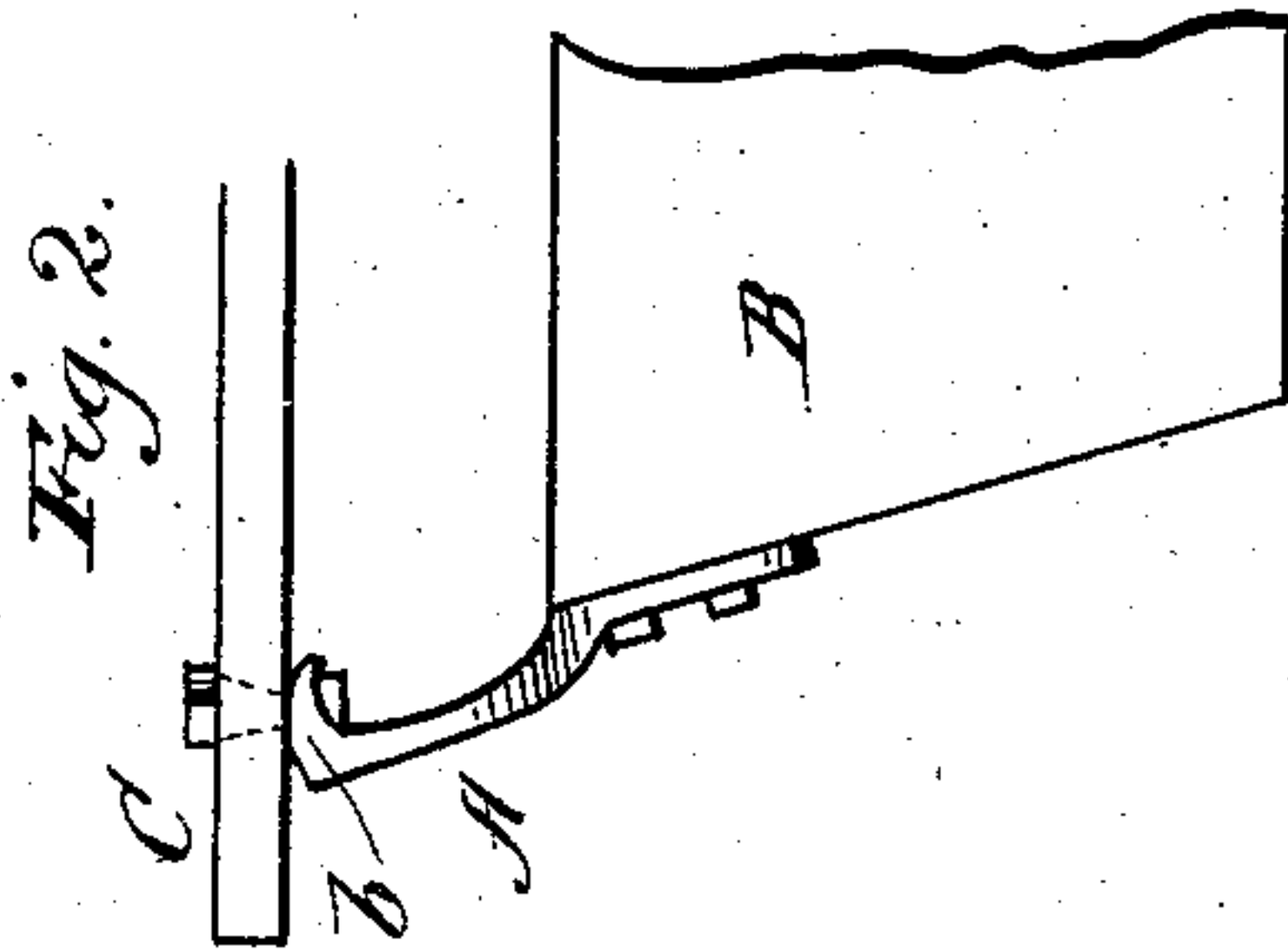
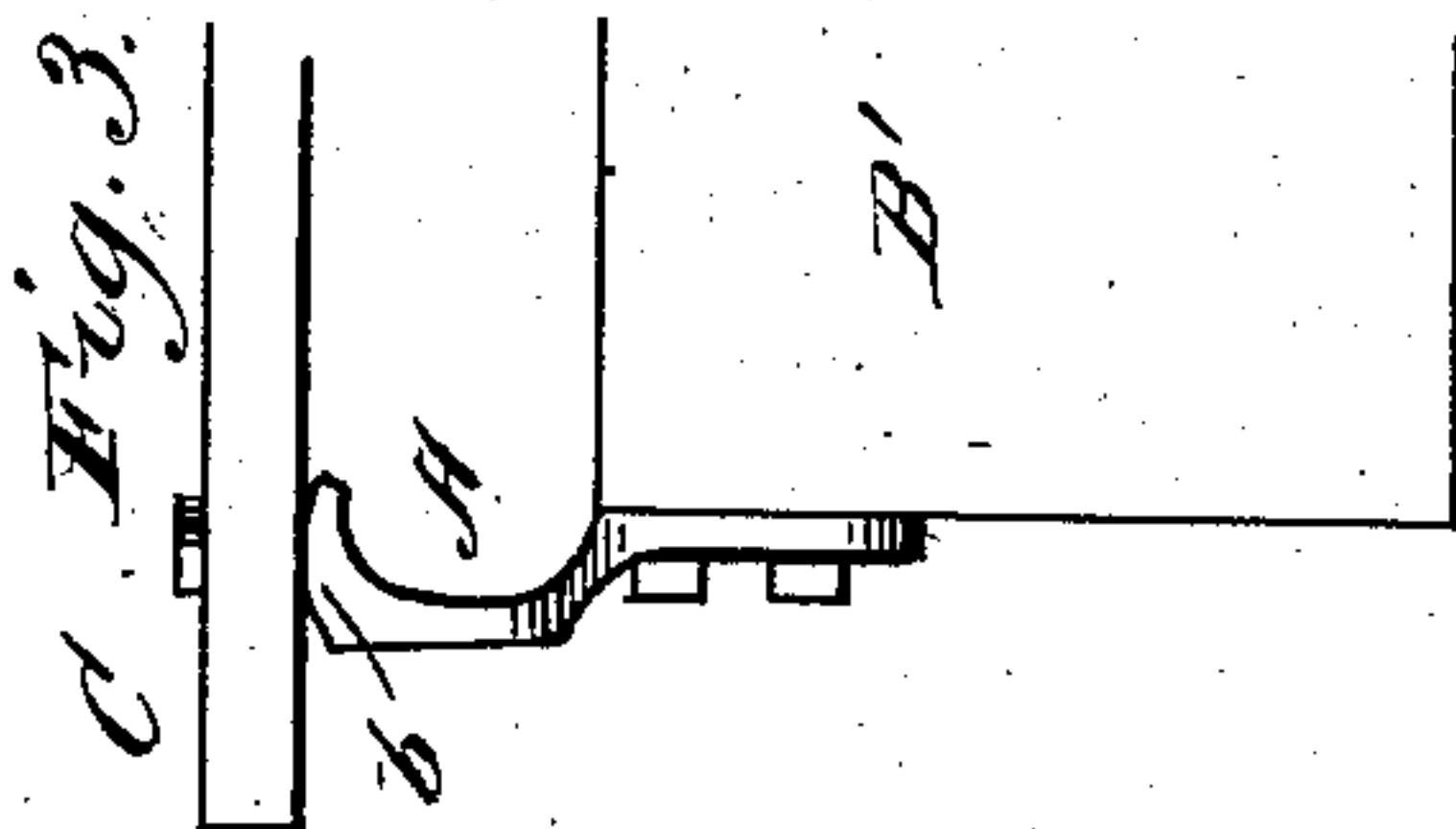
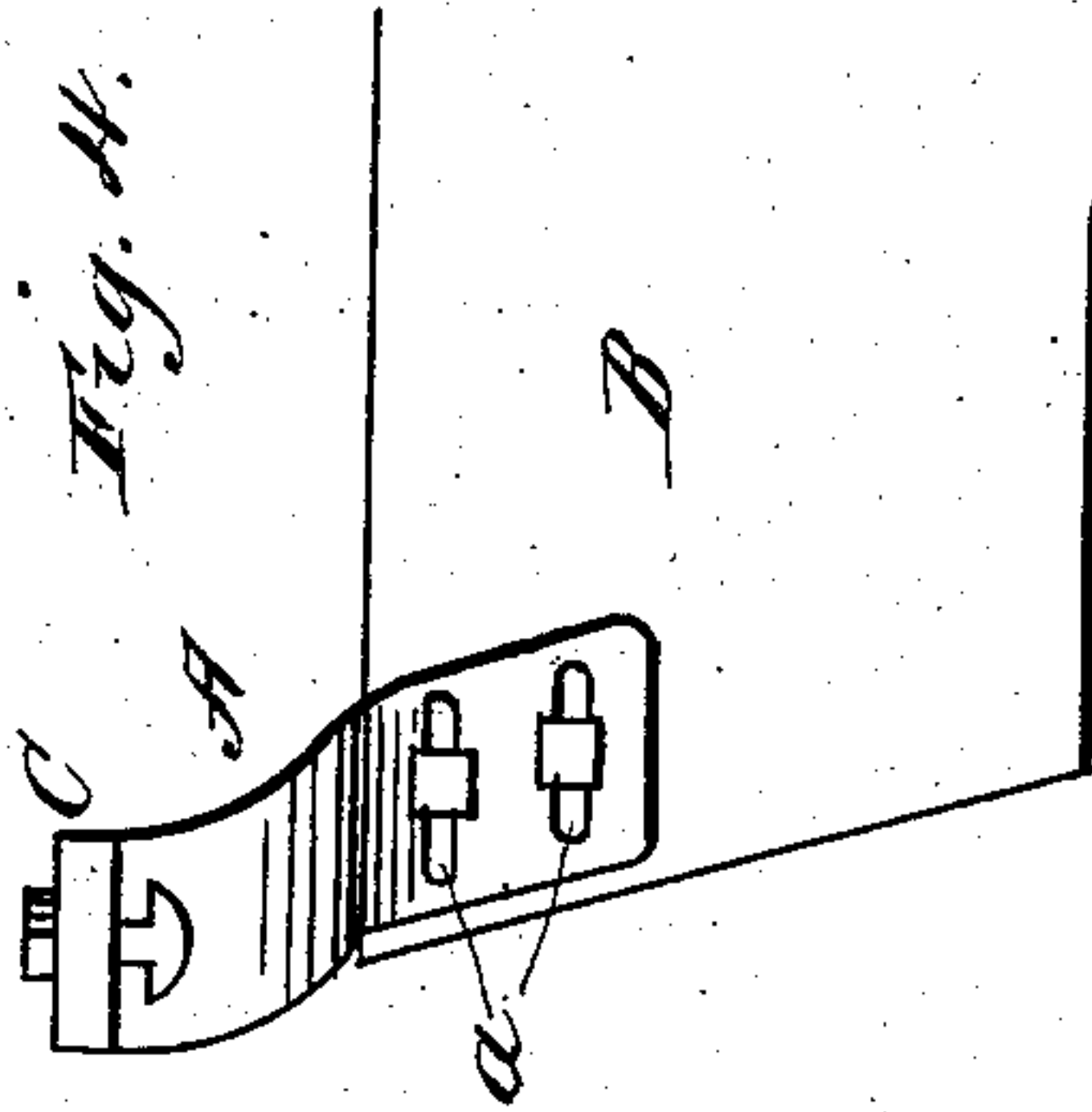
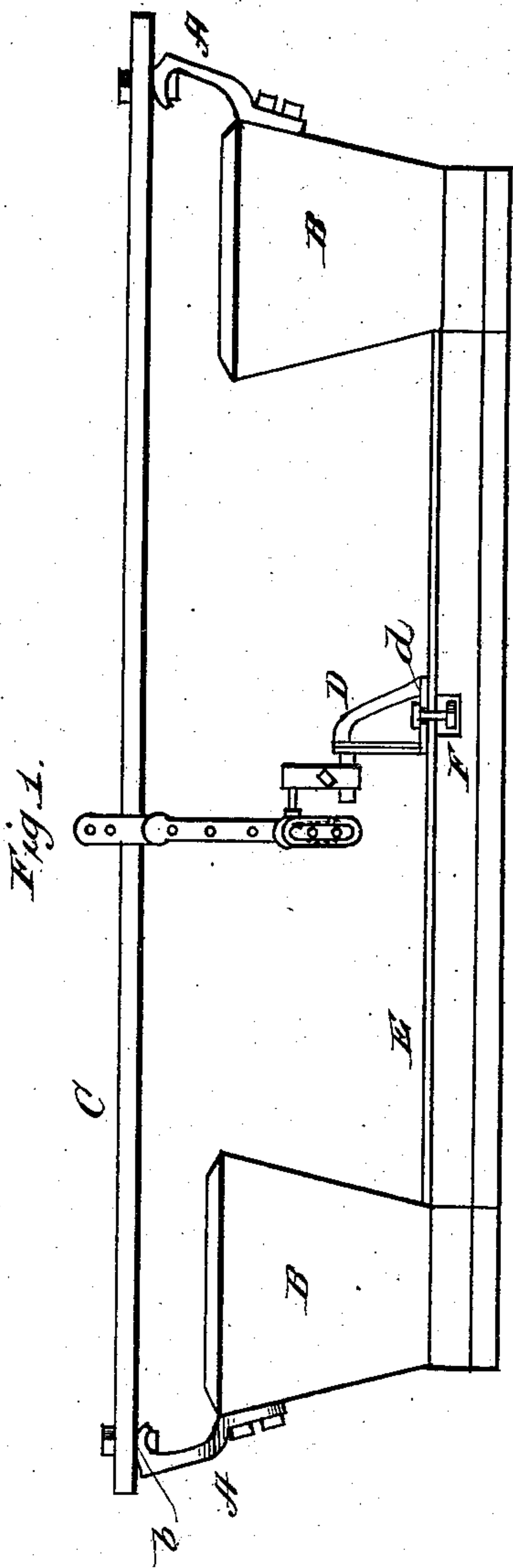
2 Sheets—Sheet 1.

J. E. BERING.

DEVICE FOR CONNECTING CHECK ROWERS TO PLANTERS.

No. 259,796.

Patented June 20, 1882.



Witnesses:  
Albert H. Adams.  
D. A. Price

Inventor:  
James E. Bering  
By West & Bond Atty

(Model.)

2 Sheets—Sheet 2.

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Fig. 6.

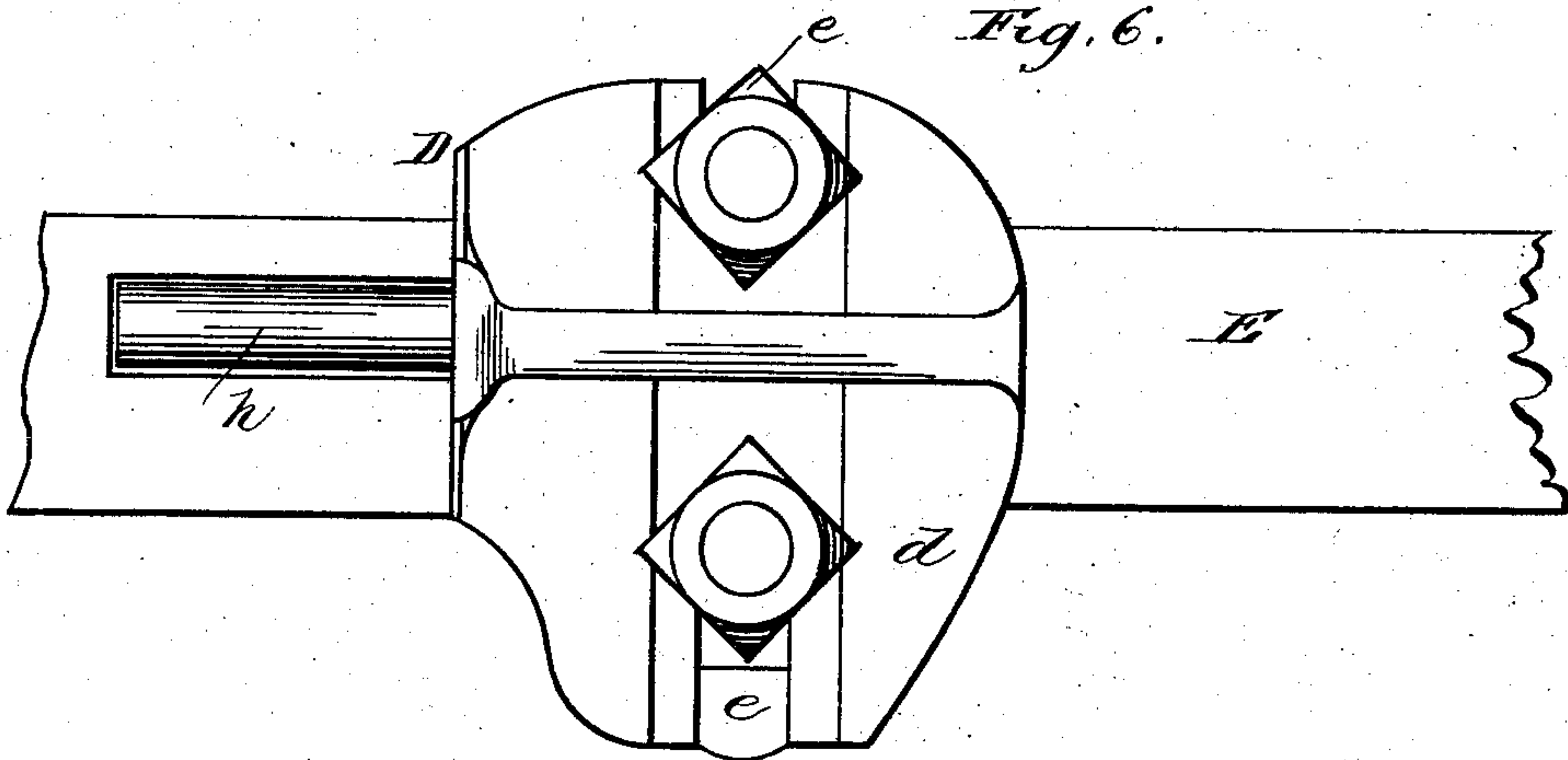


Fig. 7.

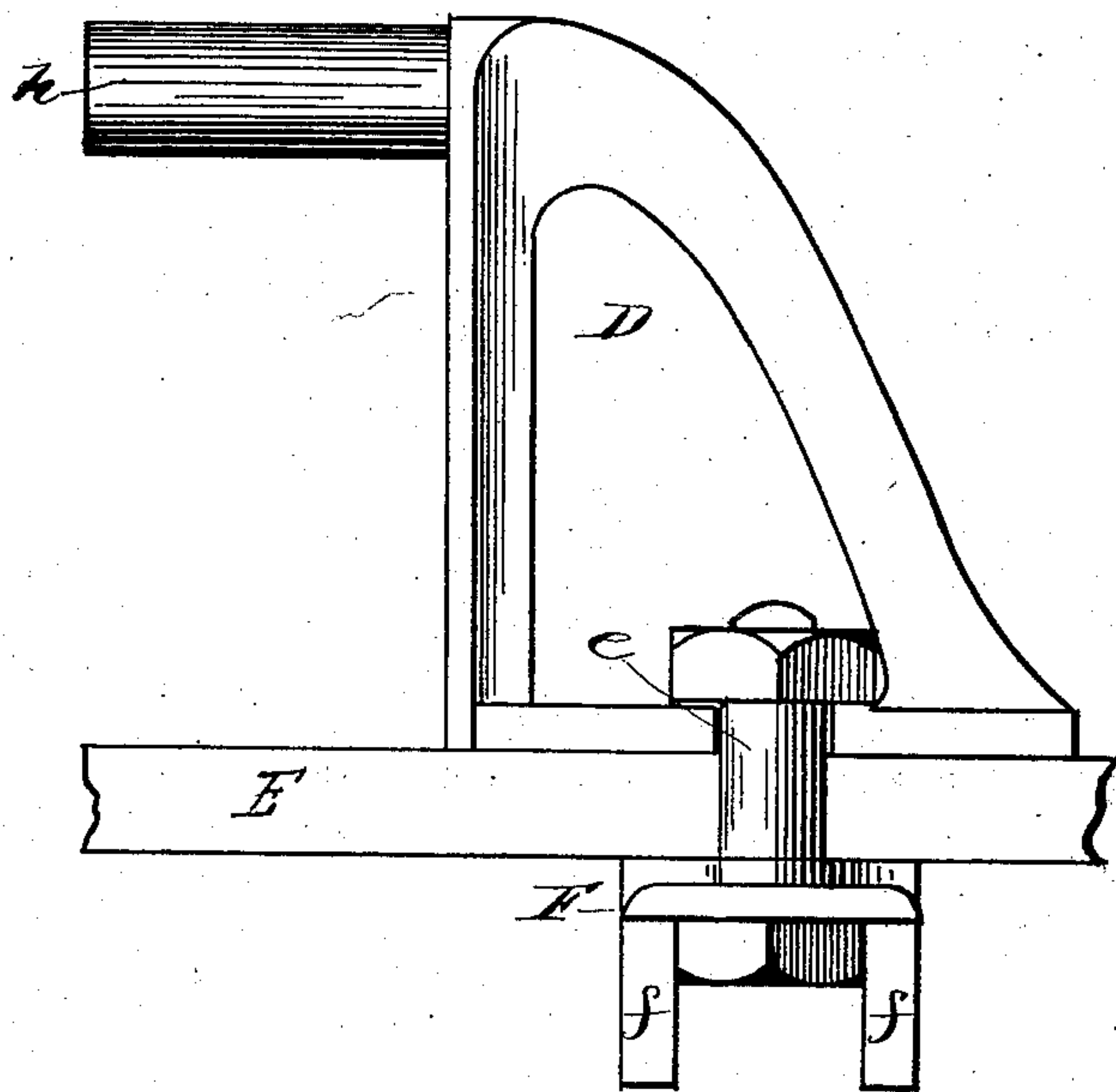


Fig. 8.

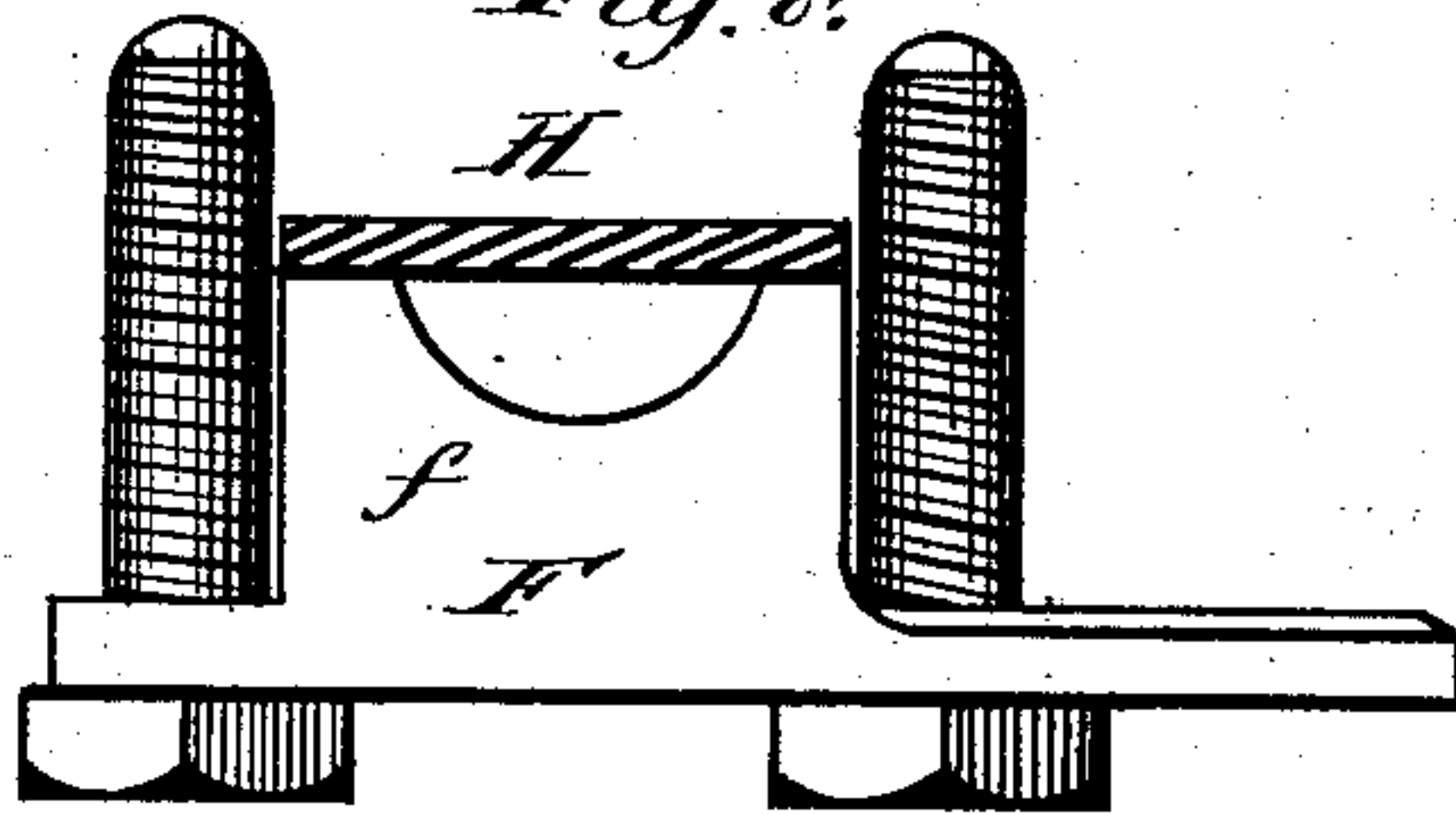


Fig. 9.

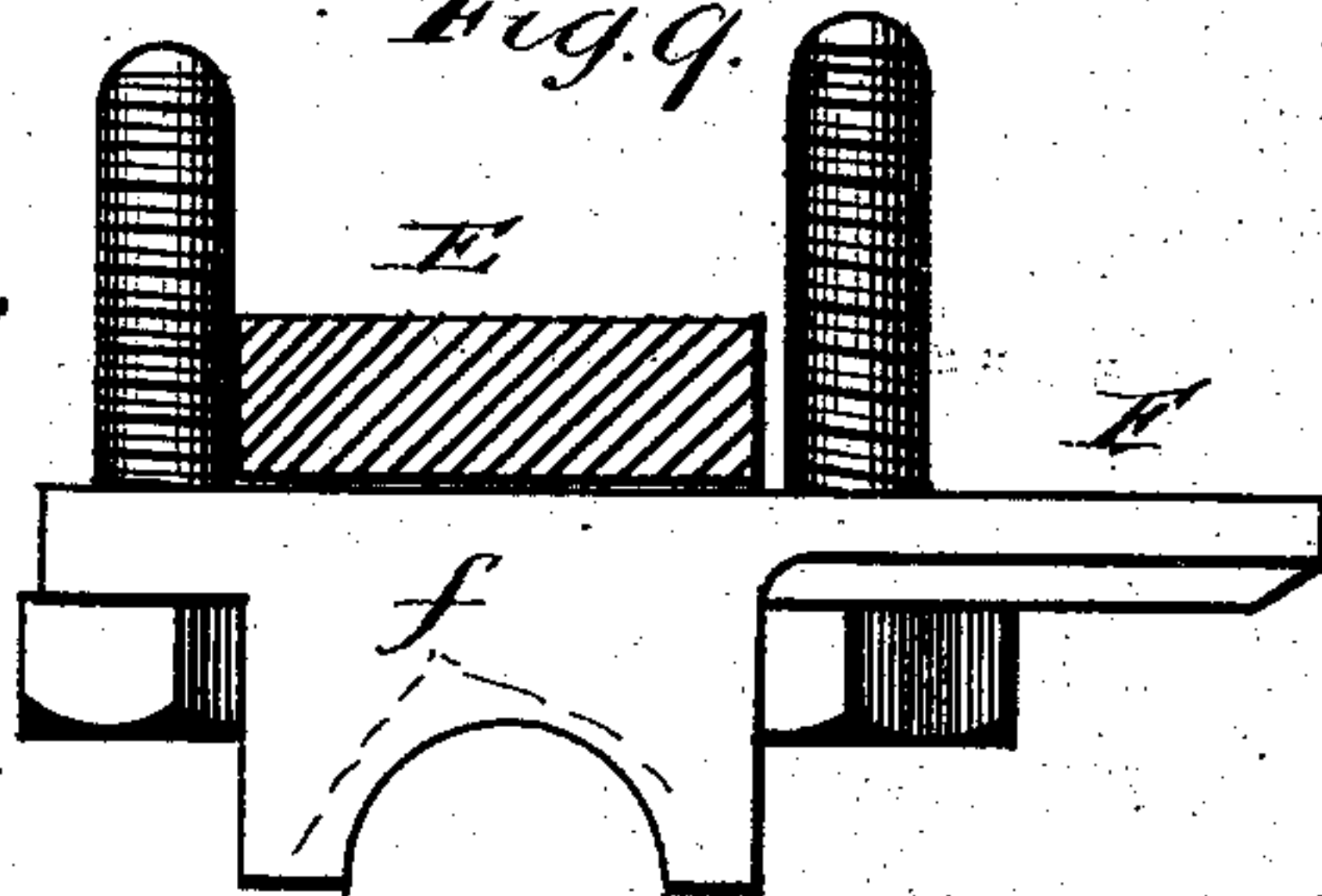
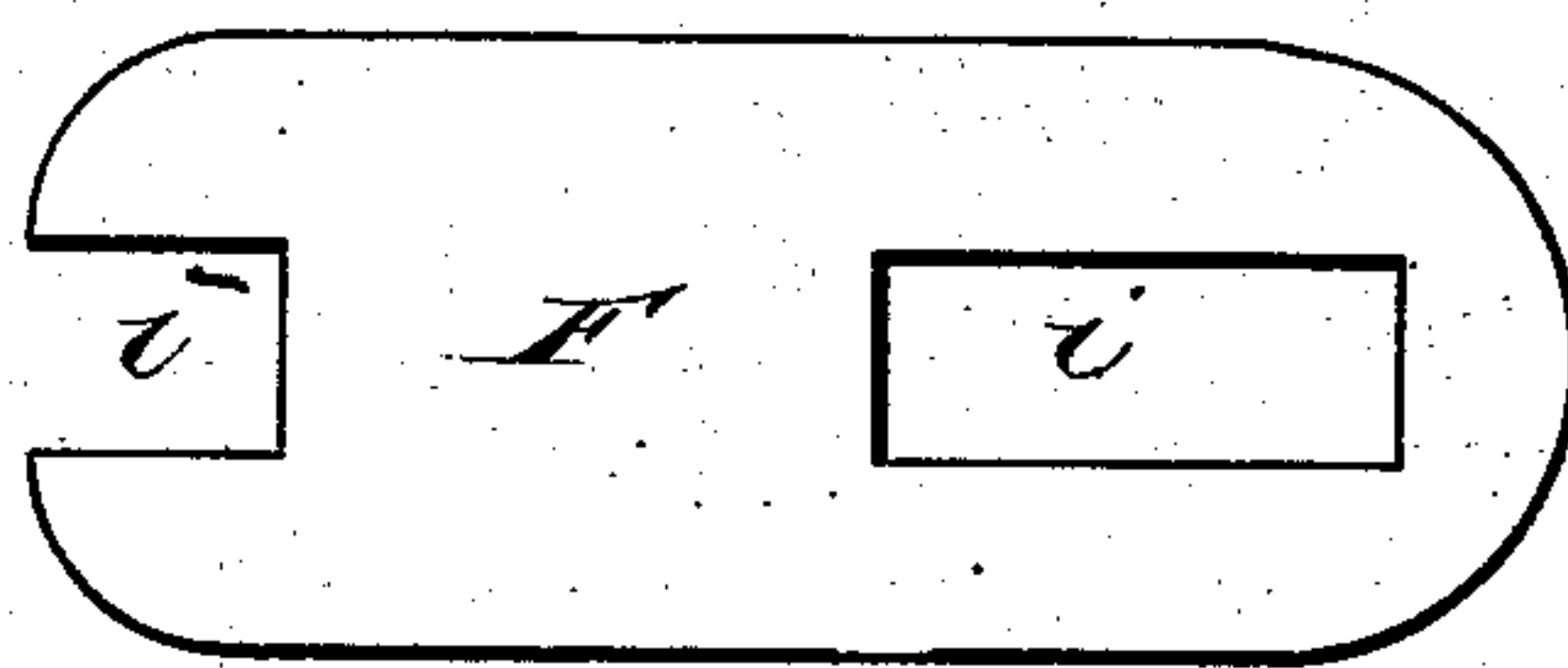


Fig. 10.



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# UNITED STATES PATENT OFFICE.

JAMES E. BERING, OF DECATUR, ILLINOIS, ASSIGNOR TO CHAMBERS, BERING & QUINLAN, OF SAME PLACE.

## DEVICE FOR CONNECTING CHECK-ROWERS TO PLANTERS.

SPECIFICATION forming part of Letters Patent No. 259,796, dated June 20, 1882.

Application filed November 8, 1881. (Model.)

*To all whom it may concern:*

Be it known that I, JAMES E. BERING, residing at Decatur, in the county of Macon and State of Illinois, and a citizen of the United States, have invented new and useful Improvements in Devices for Connecting Check-Rowers to Planters, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a front elevation. Fig. 2 shows the check-rower bar secured to a seed-box having inclined sides, as in Fig. 1. Fig. 3 is the same as Fig. 2, except that the seed-box has straight sides. Fig. 4 is an end view of a seed-box with the connecting-iron attached. Fig. 5 is a top view of the iron A. Fig. 6 is a top view of the parts shown. Fig. 7 is a side elevation of the parts shown. Fig. 8 is a detail showing a thin shake-bar and the iron plate beneath it. Fig. 9 shows the same plate as used with a thick shake-bar. Fig. 10 is a plan of the plate F.

Some corn-planters have seed-boxes having inclined sides, which inclination varies in different planters. Others have seed-boxes with straight sides.

The shake-bars of corn-planters are sometimes made of wood and quite thick. They are also sometimes made of iron, in which case they are quite thin.

It is desirable to provide means by the use of which a check-rower attachment for corn-planters can be readily attached to the seed-boxes and shake-bars of corn-planters differing in construction, as above stated; and the object of my invention is to accomplish this purpose, which I do by providing connecting-irons to be secured to the seed-boxes of the planter, which irons are adapted to receive and hold the main bar of the check-rower, whether the seed-boxes have straight or inclined sides, and by providing a reversible block adapted to be used in connecting the attachment to the shake-bar of the planter, which block is adapted to be used either with a thick or thin shake-bar, and also with a wide or narrow shake-bar, in connection with a slotted plate, as described.

In the drawings, A A represent two cast-

ings, each having slots *a* in their lower ends, which castings are adapted to be secured to the seed-boxes of the planter by means of bolts passing through the slots *a*. These castings are so made that their upper and lower parts do not stand in the same vertical plane. The object of this is to accommodate the covers of the seed-boxes, which covers always project a little over the edges of the boxes. The extreme upper end of these castings is provided with a rounded top, *b*, provided with an open slot, *c*, as shown in Fig. 5.

B are the seed-boxes of a corn-planter, having inclined sides, while B', Fig. 3, shows a seed-box having vertical sides.

C represents the main bar of a check-rower attachment. This bar can be secured to the irons A A by means of bolts passing through the slots *c*. If the surface of these irons A were flat, the bar C would rest upon such surface when the irons were in a vertical position; but if they had flat surfaces and were placed in an inclined position, then this bar would rest upon a sharp edge, and the bolts would not fit into the ordinary bolt-holes. I obviate this difficulty by rounding the tops of the irons A and providing slots therein. It is not necessary to make these slots open at one end, but in use it is convenient to have them so made. When these irons are made as shown in Fig. 4 they should be rights and lefts, which would not be necessary if made with vertical edges.

D is a casting having a base-plate, *d*, and a round arm, *h*. This casting D is a part of the devices connected with a check-rower attachment through which the check-rower is connected to the shake-bar and the shake-bar is operated; and when the check-rower is properly connected with a corn-planter, ready for use, this piece D is permanently secured to the shake-bar. As shown, the base-plate *d* is provided with two slots, *e*, one upon each side.

E represents a thick shake-bar.

F represents a plate having two slots, *i*, corresponding with the slots in the base-plate *d*. This plate F has two projections, *f*, upon one side. When the casting D is to be secured to a thick shake-bar the smooth face of the plate



F is placed upon the under side of the shake-bar, beneath the base-plate, and by means of bolts passing through the slots in the base-plate *d* and the plate F the casting D can be firmly secured to the shake-bar. If a thin shake-bar, H, is used, by turning over the plate F and placing the projections *f* thereon against the under side of the thin shake-bar H the same bolts can be used to connect the casting D to the thin shake-bar as are used to connect it to a thick shake-bar. The slots in the base-plate *d* and in the plate F allow the fastening-bolts to be brought close to the shake-bar, whether it be narrow or wide. This construction is of considerable importance to a manufacturer of check-rower attachments, because he is enabled by the use of a single set of castings and bolts to provide suitable means for attaching the check-rower either to thick or thin shake-bars, and at different places thereon.

These check-rower attachments are made by manufacturers who do not, as a rule, manufacture corn-planters; and it is very desirable to have the attachments and their connecting parts adapted to be used for various kinds of planters.

I am aware that check-rower attachments have been connected to the seed-boxes of corn-planters in various ways, and I only claim my device for doing this, which is cheap, durable, and efficient, and is adapted to be used with

seed-boxes having either inclined or straight sides.

The plate F might have a single solid piece upon one side, in place of the two projections *f*; such solid piece being of sufficient size and arranged so as not to be in the way of the slots, there would be no special advantage, and more metal would be required.

What I claim as new, and desire to secure by Letters Patent, is as follows:

1. A device adapted to be used in connecting check-rower attachments to the seed-boxes of corn-planters, consisting of a single casting, A, the lower end of which can be bolted to the seed-box, and provided at its upper end with a rounded top, *b*, provided with a slot, *c*, substantially as and for the purposes specified.

2. The reversible plate F, provided with slots *i* for the passage of attaching-bolts, and on one side with projections *f*, the opposite side being plane or smooth for the purpose of attaching the casting D to shake-bars of varying thickness, said plate being reversible to bring either its plane or smooth face or its projections against the under side of the shake-bar, substantially as and for the purpose described.

JAMES E. BERING.

Witnesses:

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