

(No Model.)

S. HUBBELL, Jr.

THILL COUPLING.

No. 297,261.

Patented Apr. 22, 1884.

Fig. 1.

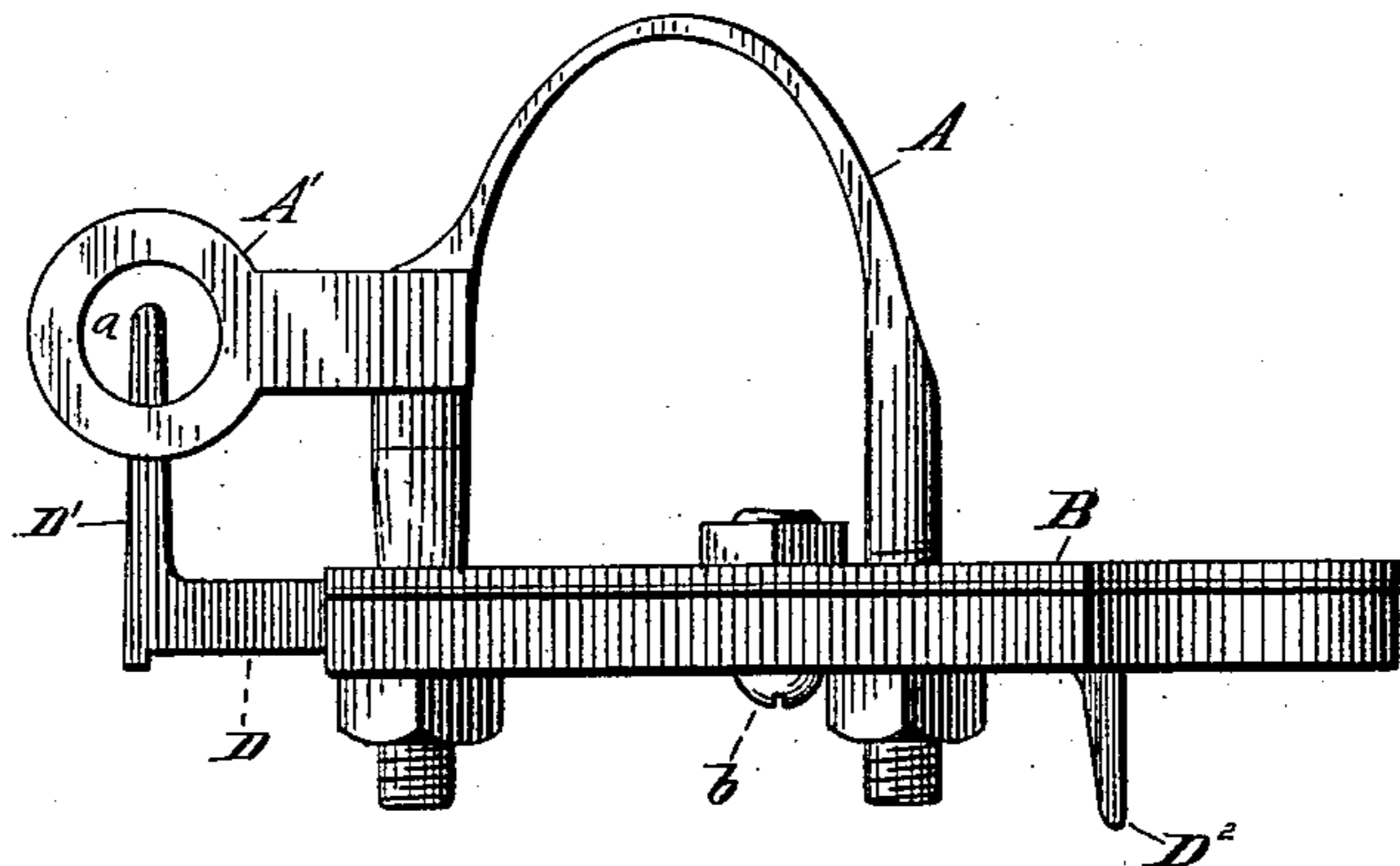


Fig. 2.

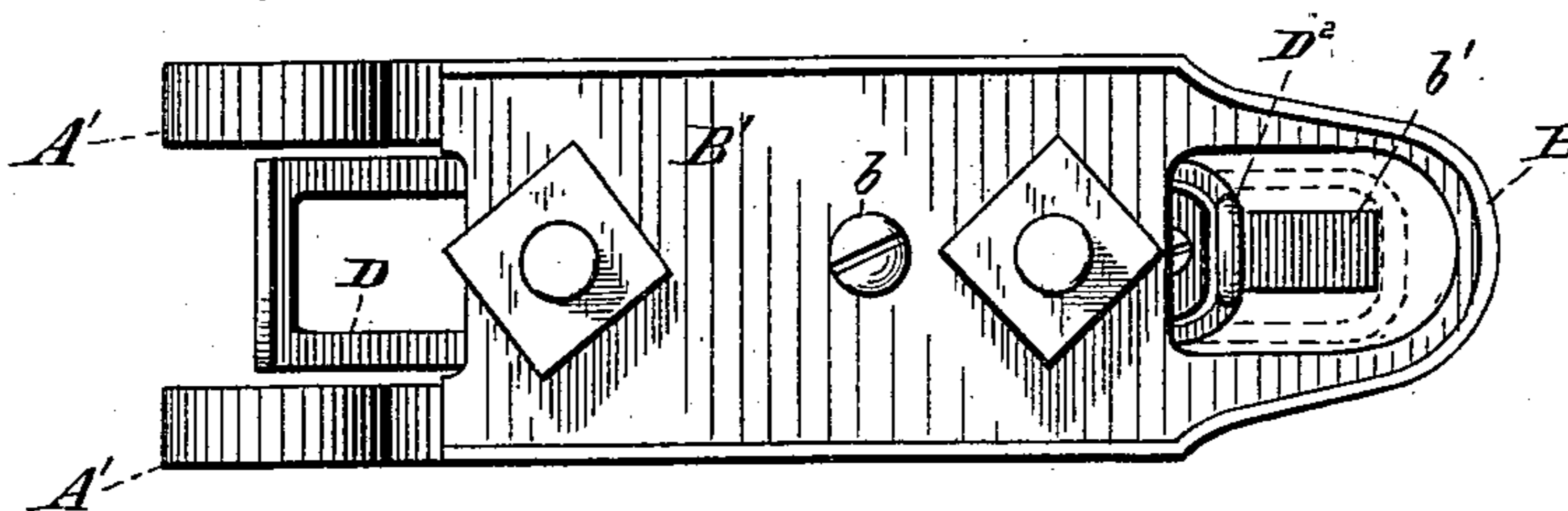
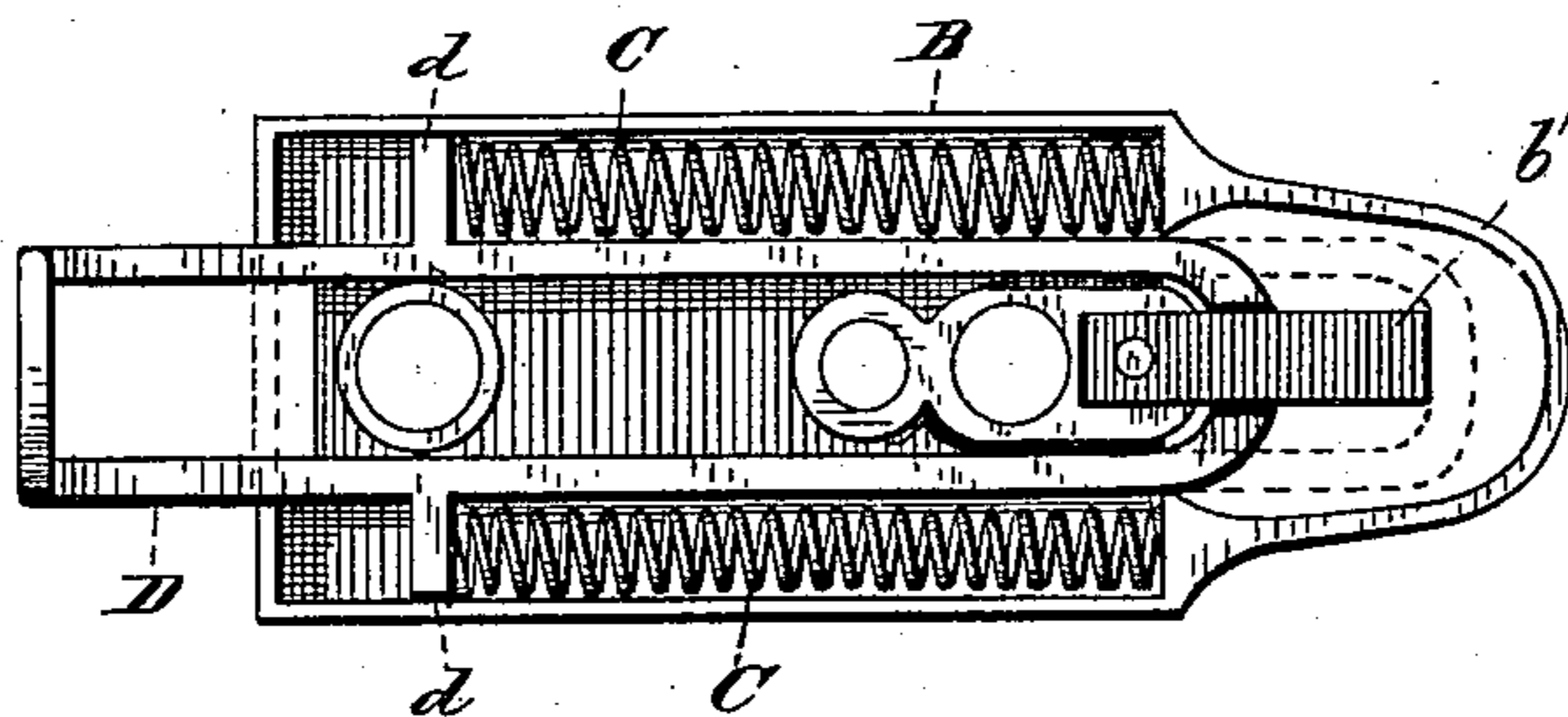


Fig. 3.



WITNESSES

W. Engel
Geo. W. King

Saunders Hubbell Jr. INVENTOR

By Leggett & Leggett

ATTORNEYS

UNITED STATES PATENT OFFICE.

SAUNDERS HUBBELL, JR., OF MOUNT VERNON, OHIO.

THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 297,261, dated April 22, 1884.

Application filed August 11, 1883. (No model.)

To all whom it may concern:

Be it known that I, SAUNDERS HUBBELL, JR., of Mount Vernon, in the county of Knox and State of Ohio, have invented certain new and useful Improvements in a Combined Clip-Bar and Anti-Rattler; 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 pertains to make and use the same.

My invention relates to improvements in a combined clip-bar and anti-rattler; and it consists in certain features of construction and in combination of parts hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 is a side elevation view of a device embodying my invention. Fig. 2 is a plan view of the bottom of the same. Fig. 3 is a plan view of the bottom with the cover removed.

A represents a clip, with the arms A' projecting forward and provided with the holes a, through which a bolt may pass, to secure thereto the shaft-eyes.

B is the clip-bar or clip-tie, through which the ends of the clip pass, as shown, and has a cover, B', secured by the bolt b.

D is a slide partially inclosed in the clip-bar, but with the upright part D' in front and the thumb-piece D² in the rear.

Between the slide D and the outer case or part, B, are formed chambers, in which operate, respectively, the coiled springs C. These springs at the rear or right hand butt against an angle in the wall of the casing, and on the left hand engage the lateral projections d, that are integral with the slide D, and by means of which the slide is pressed forward or to the left, as shown. The slide D may be drawn back, as shown in the dotted lines, and in this

position will engage the spring b', which engagement will prevent the slide from moving forward. This engagement, however, may be easily broken by pressing upward on the spring b' through the orifice shown in the cover B'.

The operation of the device is as follows: The slide D is drawn back and fastened by the spring b', after which the shafts are secured in place by means of bolts passing through the holes in the arms A' and the shaft-eyes. After this the slide is released from the spring b', and by means of the springs C the part D' is pressed against the rear of the shaft-eyes, holding them firm against the bolts and preventing all rattling of the parts.

What I claim is—

1. In a thill-coupler, the combination, with a suitable clip having a chambered base provided with a cover, B', of the spring-actuated slide D, provided with projections D' D², substantially as set forth.

2. In a thill-coupler, the combination, with a clip and a suitable shaft-eye, of a spring-actuated slide adapted to hold the shaft-eye against its bolt, and the spring b', all of the above parts combined and adapted to operate as described.

3. The combination, with the clip and shaft-eye, of the chambered clip-tie B, the stop or catch b', the slide D, provided with arms d, and the springs C, all of the above parts combined and adapted to operate as described.

In testimony whereof I sign this specification, in the presence of two witnesses, this 7th day of August, 1883.

SAUNDERS HUBBELL, JR.

Witnesses:

CHAS. S. CHERINGTON,
J. S. GOLD.