

C. G. SHEPARD.
Improvement in Blind-Hinges.

No. 131,571.

Patented Sep. 24, 1872.

Fig 1.

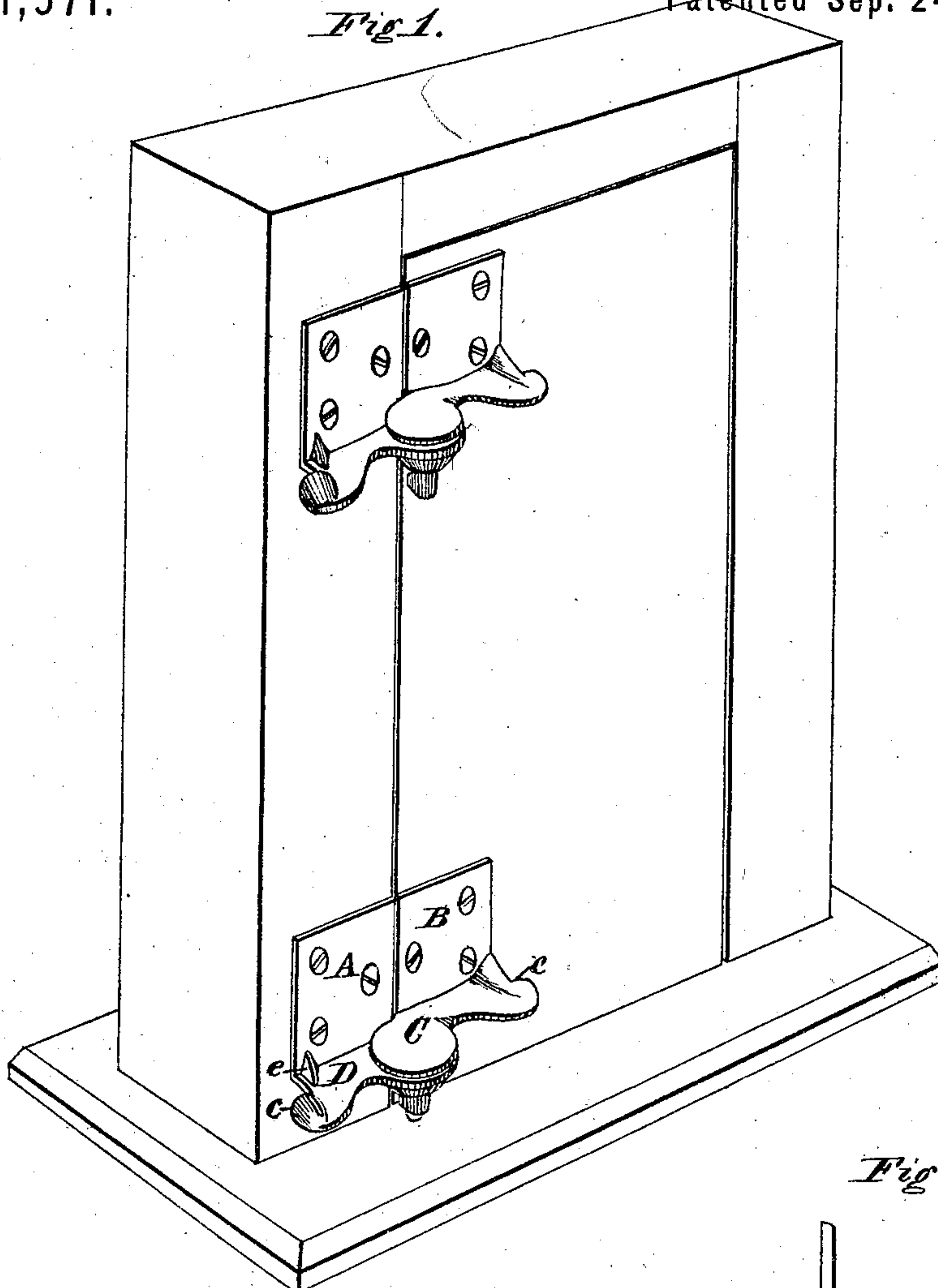


Fig 2.

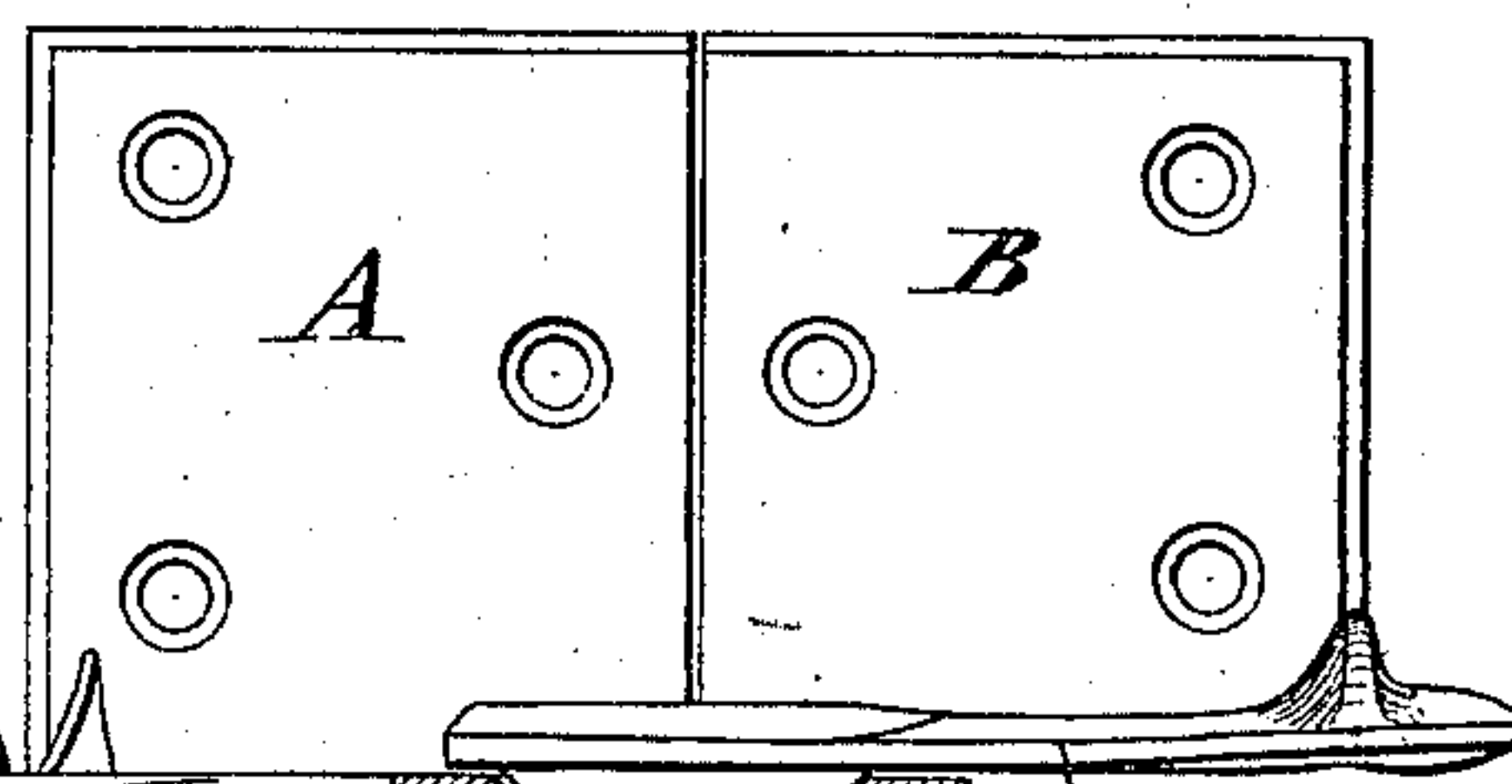
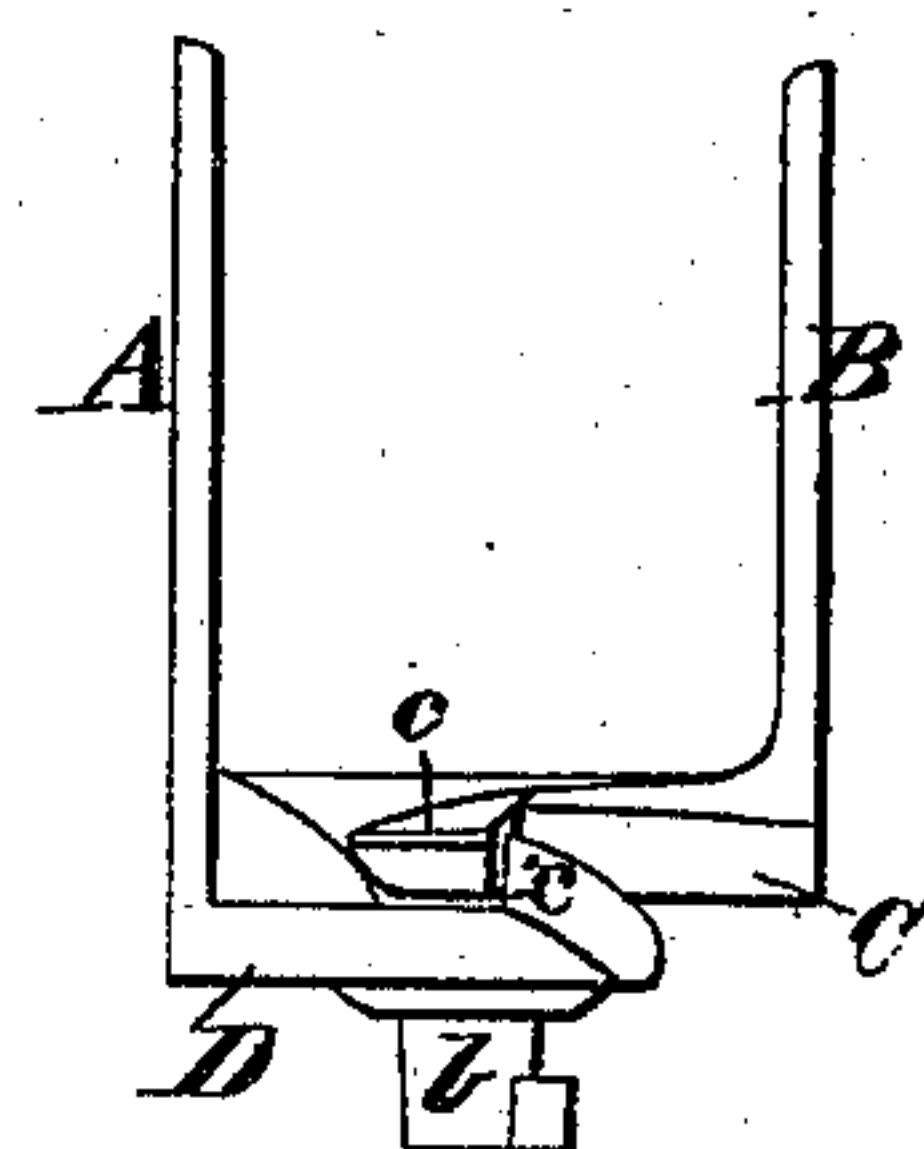


Fig 4.

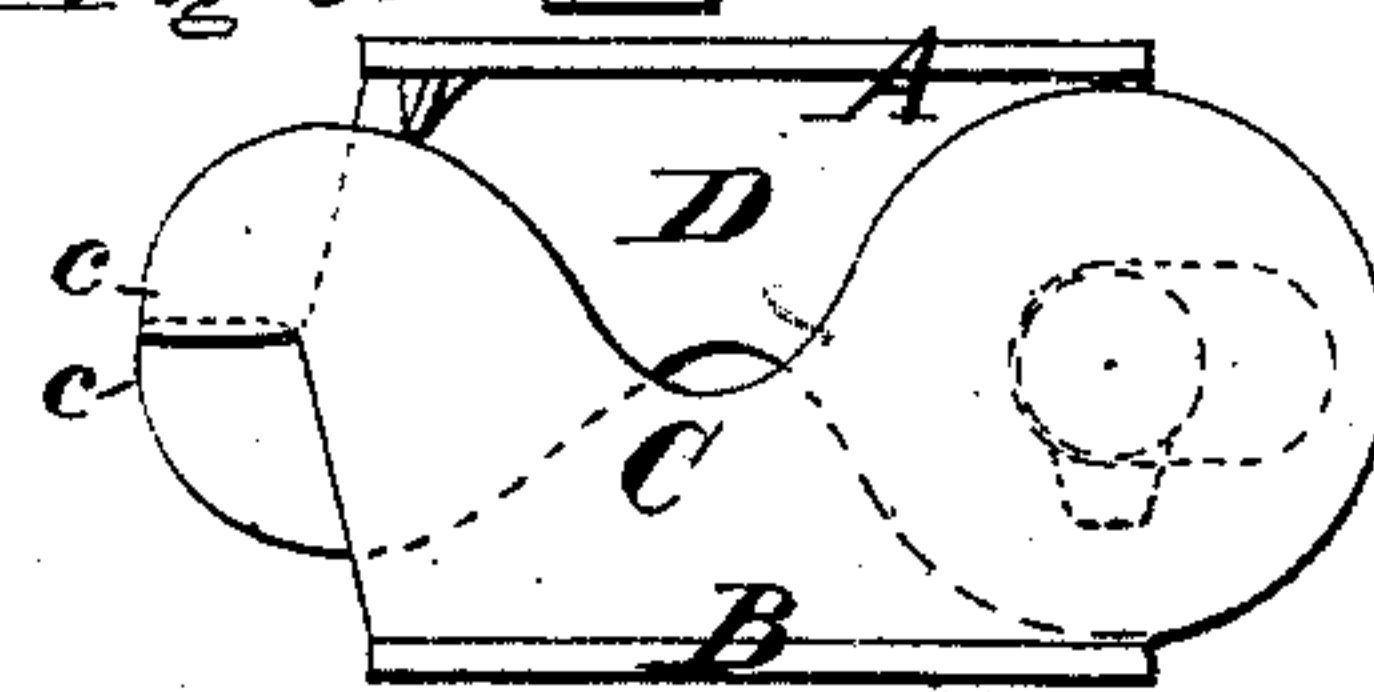


Witnesses.

Harry King.

Phil T. Dodge

Fig 3.



Inventor.

Charles G. Shepard
by Dodge & Munn
Attys.

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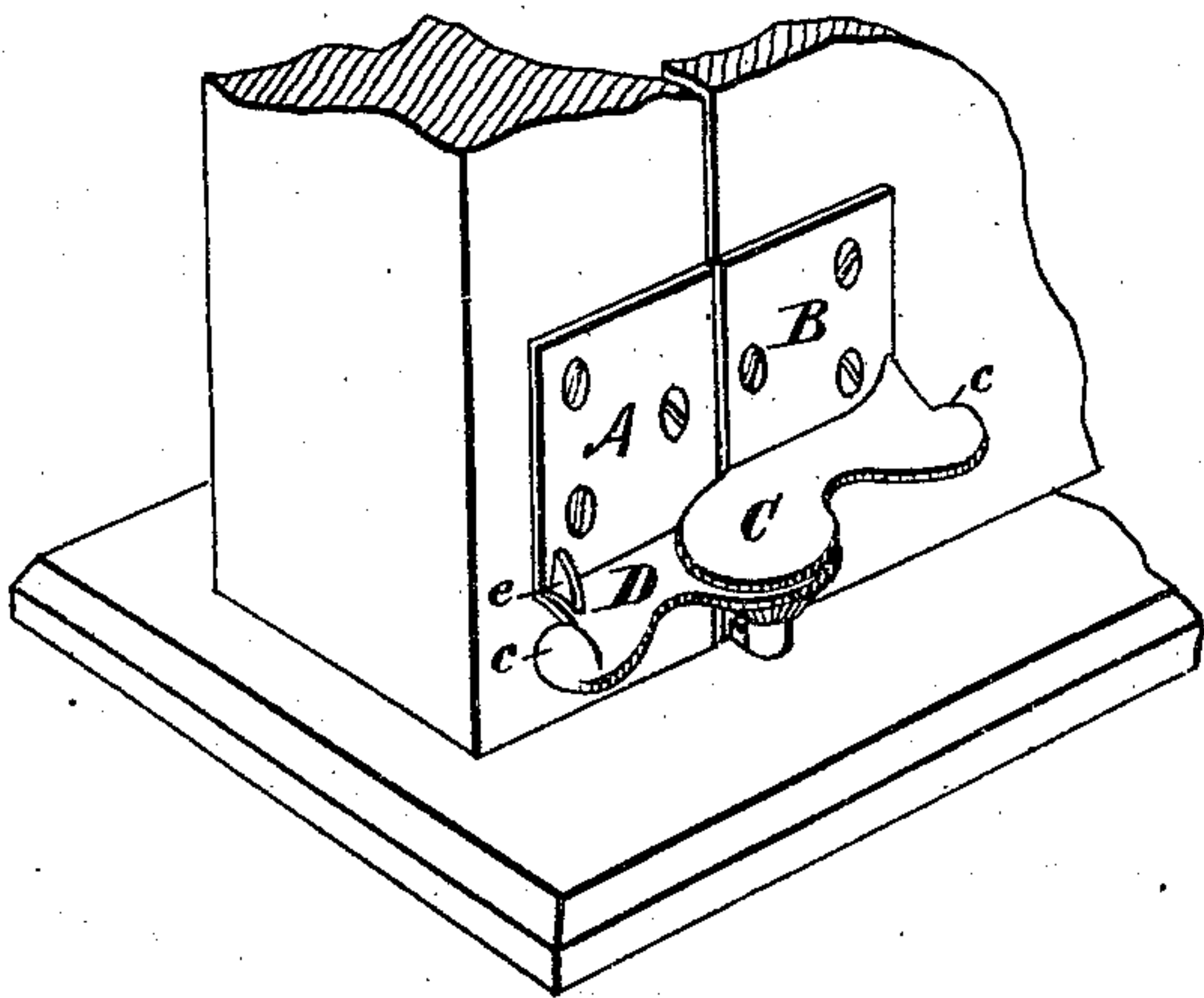


Fig 2.

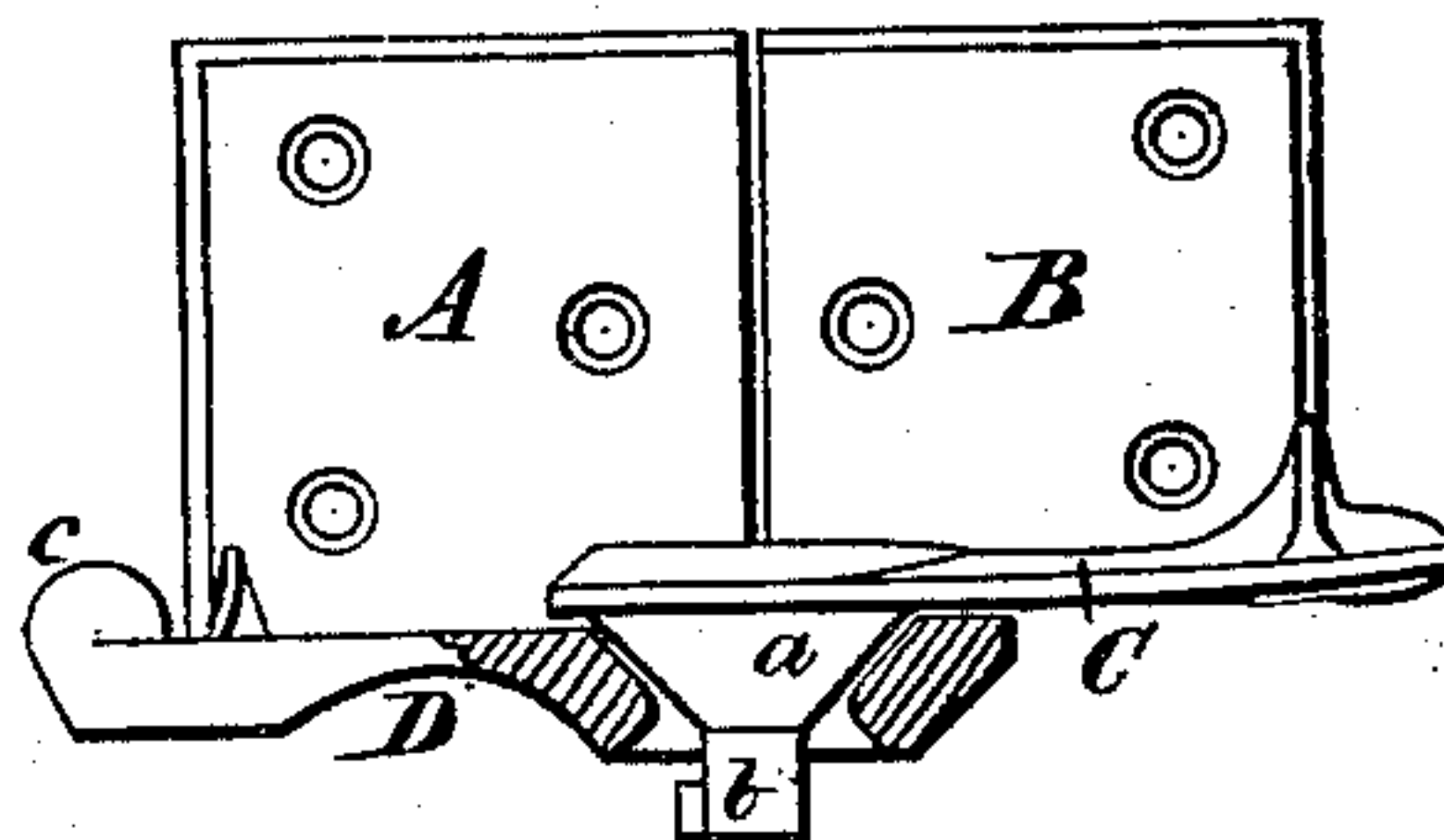


Fig 3.

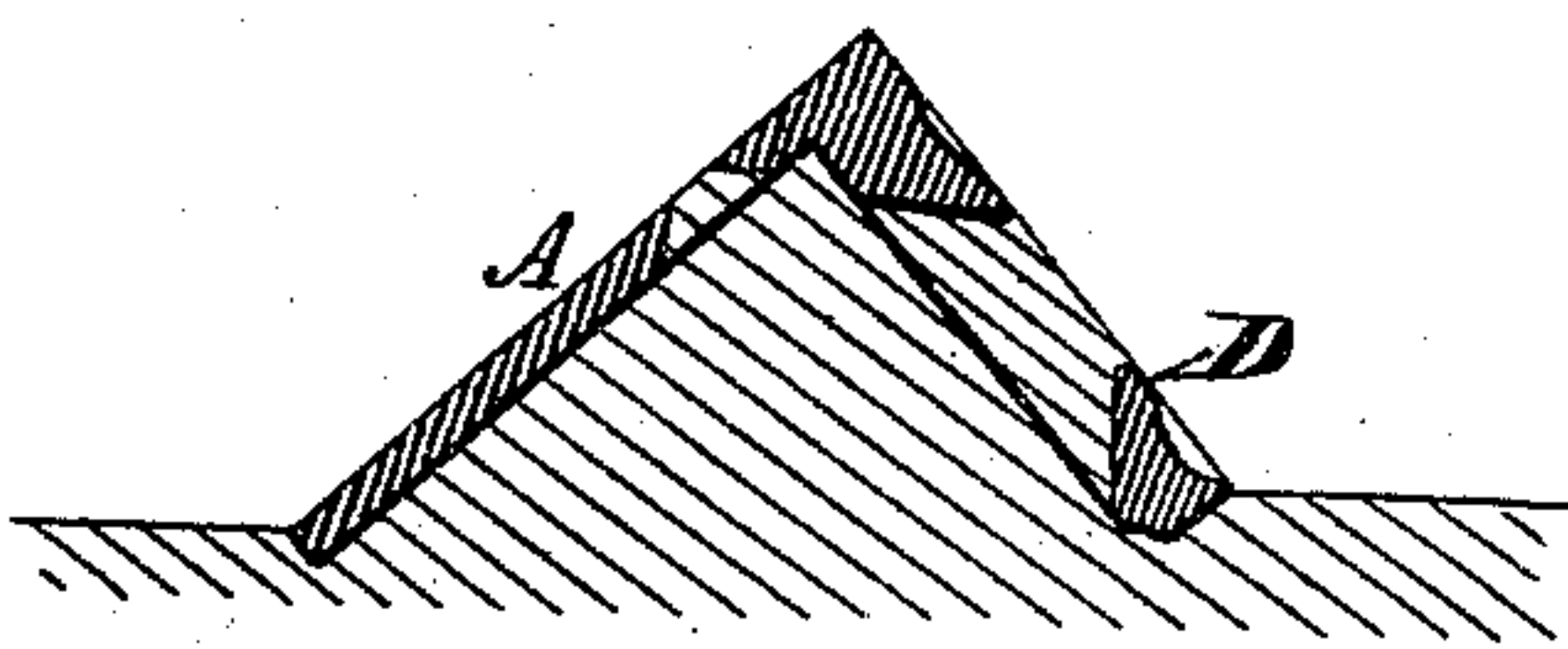
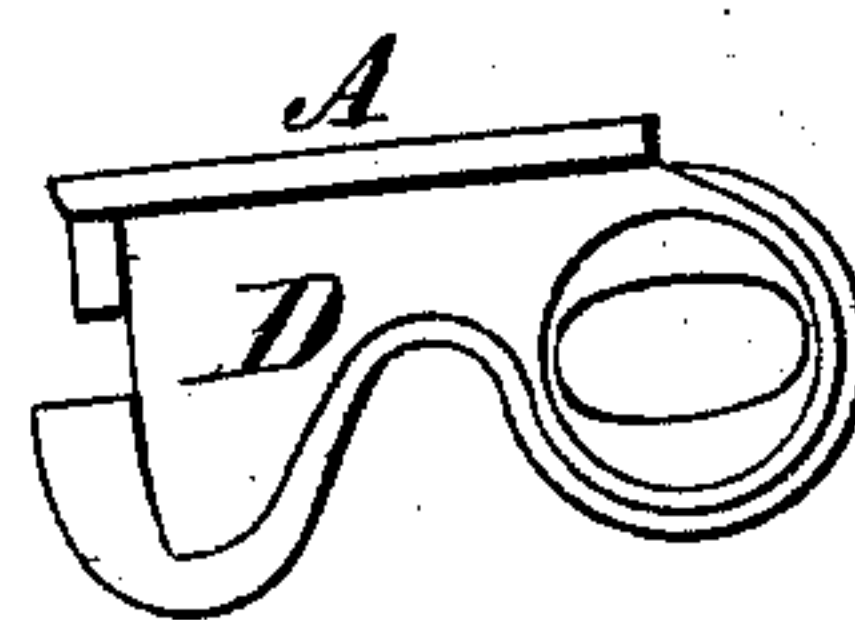


Fig 4.



Witnesses.

Harry King.
W. H. P. King

Inventor.

Charles G. Shepard.
by Dodge Munn
Atty.

UNITED STATES PATENT OFFICE.

CHARLES G. SHEPARD, OF BUFFALO, NEW YORK.

IMPROVEMENT IN BLIND-HINGES.

Specification forming part of Letters Patent No. 131,571, dated September 24, 1872.

To all whom it may concern:

Be it known that I, CHARLES G. SHEPARD, of Buffalo, in the county of Erie and State of New York, have invented certain Improvements in Blind-Hinges, of which the following is a specification, reference being had to the accompanying drawing.

My invention consists of an improvement in the mode of constructing the blind-hinges heretofore made by John D. Shepard, and on which he has previously filed applications for patents; and consists in the form, hereinafter claimed, which allows the screw-holes and pintle-eye to be both cast at one operation.

Figure 1 is a perspective view of my improved hinge as applied for use. Fig. 2 is a front elevation of the same, a portion being shown in section. Fig. 3 represents the same as it is molded for casting to illustrate my improvement; and Fig. 4 is a top plan view of one part detached.

The hinges of John D. Shepard, as fully described in his specifications, were so constructed that they could be cast complete with the locking devices at the outer edges, and with the screw-holes formed therein. In those hinges it was, however, necessary to core the eye in the act of casting that portion of the hinge containing the same.

Now, the object of my invention is to so construct the hinge that while it can be cast like his with the locking devices and screw-holes complete, it can also have the eye formed without the use of a core, thus still further simplifying and cheapening their production.

To accomplish this, I construct the hinge as represented in the drawing. In this it will be observed that each part or leaf, A and B, is provided with a laterally-projecting rib or flange, D and C, the rib C having a pintle, *b*, depending from its under side, with a conical hub, *a*, where it joins the rib, while the rib D is provided with an elongated eye, which is made correspondingly conical on its upper surface, as represented in Fig. 2, the longer axis of the eye being arranged in line with the plane of the rib, so that when the conical

portion of the pintle rests in the conical seat of the eye the smaller portion *b* of the pintle will rest about midway of the length of the eye. These ribs or flanges, C and D, as shown in the drawing, instead of being located near the center of their respective leaves, A and B, as in Shepard's former hinges, are located at the extreme lower end, by which means I am enabled to mold it as represented in Fig. 3, where it will be seen that the sand fills all the holes without any core and permits the pattern to be drawn without difficulty, it being molded either side up. As heretofore made, that portion of the leaf below the rib projected beyond the vertical line when set in the mold and prevented it from being molded complete without a core for the eye.

By this construction I obviate this difficulty, and am thus enabled to form the hinge complete by the simple act of casting, no other operation being required, except to smooth them in a tumbler.

The locking-shoulders are the same or similar to those on the former hinge, and engage automatically as the blind is swung open. The elongated eye permits the shoulders to be unlocked by simply shoving the blind edge-wise in either direction, the conical portion *a* of the pintle riding upon its seat, and thereby raising the blind so as to disengage the locking-shoulders. Both the upper and lower hinges are to be made alike.

Having thus described my invention, what I claim is—

A blind-hinge, consisting of the leaves A and B each provided with the horizontally-projecting rib, located at the extremity of the leaves, the rib D being provided with the conically-recessed elongated eye, and the rib C with the conically-enlarged pintle *a b*, substantially as described, said arrangement allowing the screw-holes and pintle-eye to be cast at one operation.

CHARLES G. SHEPARD.

Witnesses:

JOHN D. SHEPARD,
MILES JOY.