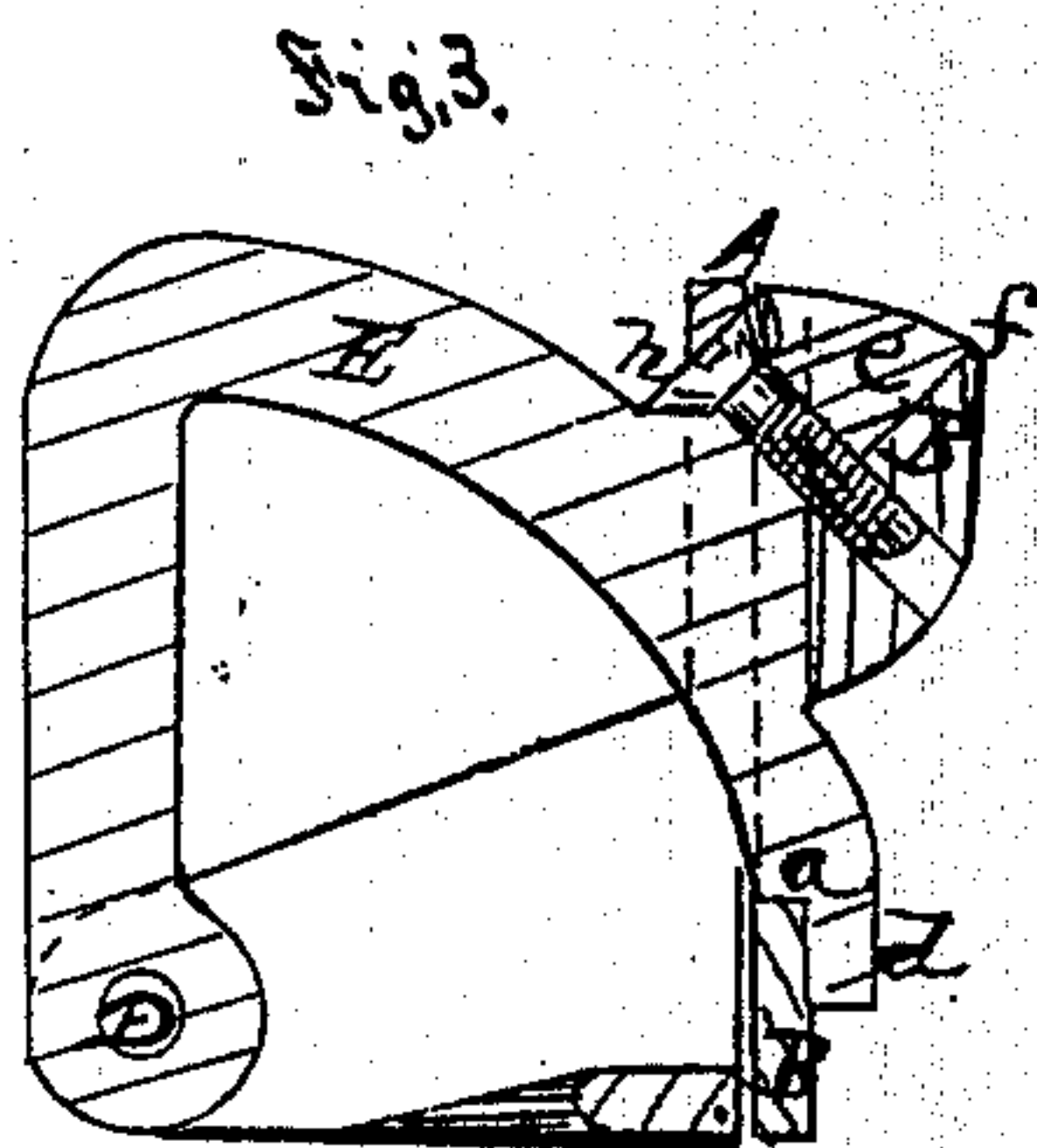
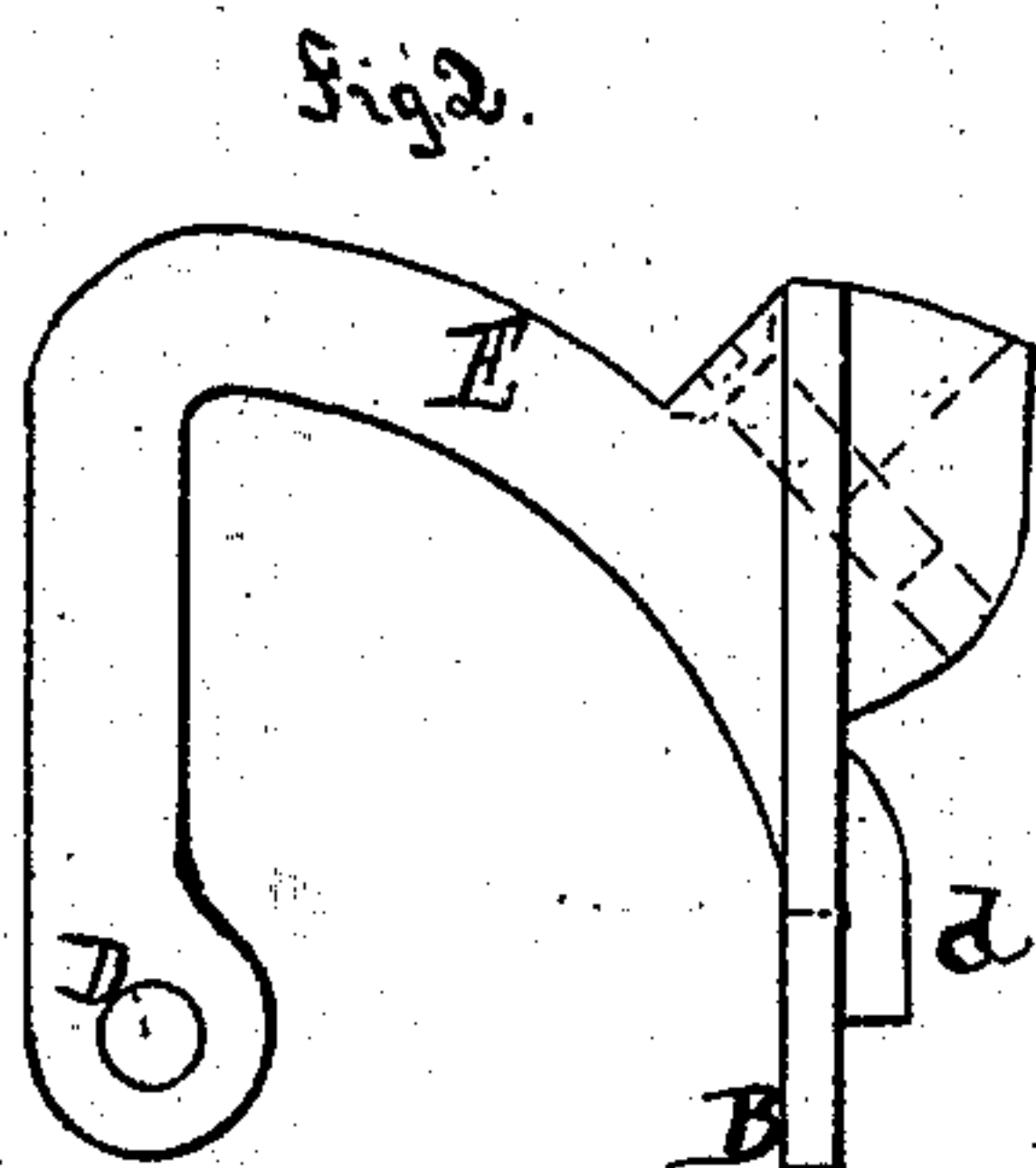
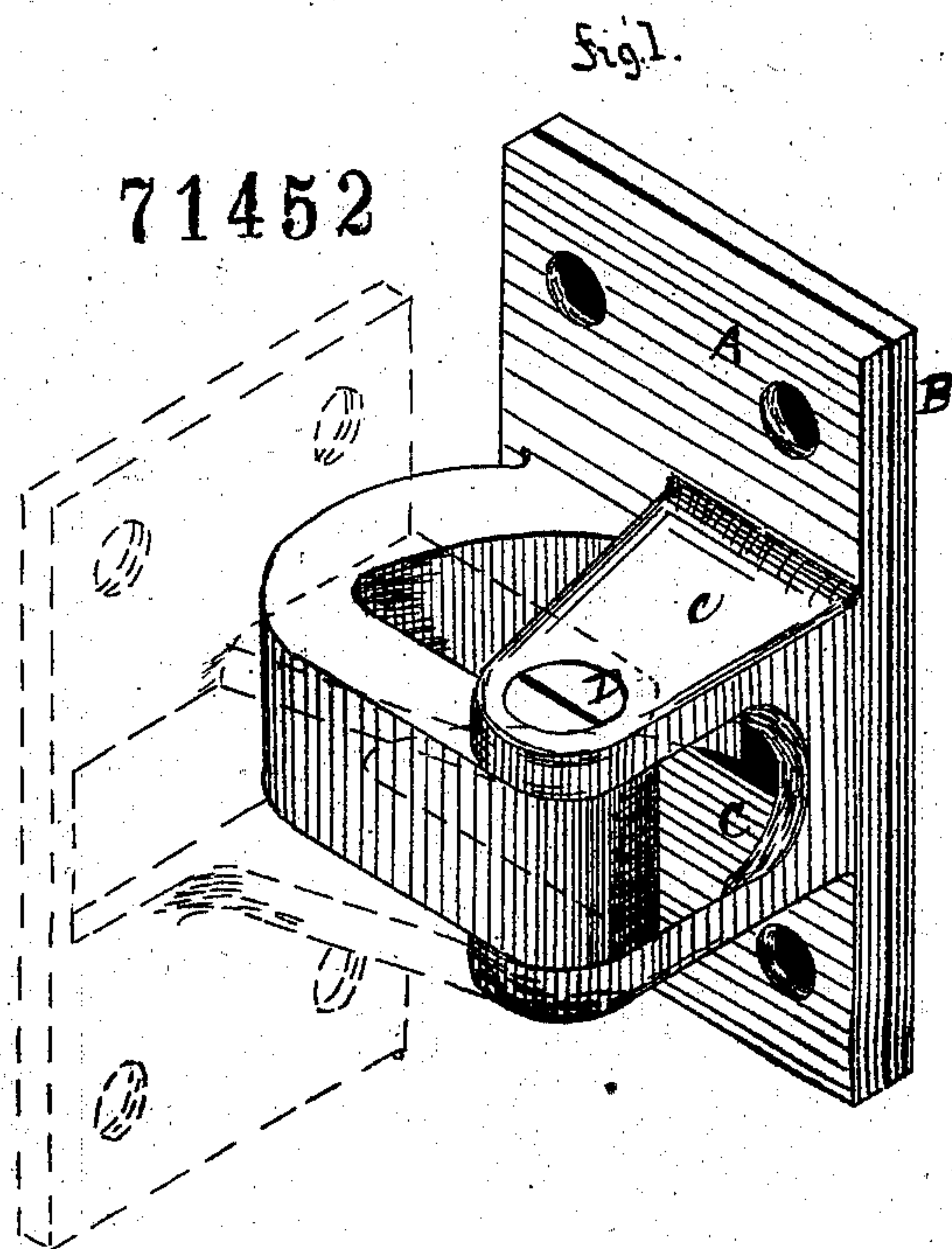


Geo. R. Cady ^{And} Wm. H. Cooper's *Impt.* in CONGEALED HINGE

PATENTED

NOV 26 1867



Witnesses

John H. Shumway
A. J. Little

Geo. R. Cady & Wm. H. Cooper.
Inventors.

By their Attorney

John E. Earle

United States Patent Office.

GEORGE R. CADY AND WILLIAM H. COOPER, OF NEW HAVEN, CONNECTICUT.

Letters Patent No. 71,452, dated November 26, 1867.

IMPROVED CONCEALED HINGE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, GEORGE R. CADY and WILLIAM H. COOPER, of New Haven, in the county of New Haven, and State of Connecticut, have invented a new Improvement in Concealed Hinge; and we do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a perspective view,
Figure 2 a top view, and in
Figure 3 a transverse section.

This invention relates to an improvement in what are commonly called concealed hinges, and such as are generally used for the hanging of carriage-doors, and consists in the manner of securing the swinging-arm to the plate.

To enable others to construct our improvement, we will proceed to describe the same, as illustrated in the accompanying drawings.

A is the one plate, which is fixed to the jamb or door-post, and B the other plate, which is fixed to the door in the usual manner. From the plate A, ears C extend inward, in the end of which is arranged a pivot, D, and to the plate B is fixed an arm, E, extending through an opening in the plate B, and pivoted to the ears C, at D, in the usual manner. Thus far the hinge is of common construction. Various devices have been arranged for securing the arm E to the plate B, so that the door may be easily detached, and yet not accidentally so; but to all such there are greater or less objections, which our invention entirely overcomes. We form an opening through the plate B, through which the end *d* of the arm E is passed, as seen in fig. 3, and so as to set against a shoulder, *a*, and upon the plate B is formed an inclined seat, *f*, to which a projection, *e*, on the arm E, is fitted, and through this projection a screw, *h*, is passed, to secure the arm E to the plate B, so that by removing the screw *h*, the door may be easily removed, and yet cannot be accidentally detached.

This construction is cheap and simple, and obviates many difficulties existing in hinges of common construction.

Having thus fully described our invention, what we claim as new and useful, and desire to secure by Letters Patent, is—

Securing the arm E to the plate B by passing the end *d* through, and so as to bear against the shoulder *a*; and so that the projection *e* will rest upon the inclined seat *f*, and there secured by means of the screw *h*, or its equivalent, substantially as herein set forth.

GEORGE R. CADY,
WM. H. COOPER.

Witnesses:

JOHN E. EARLE
A. J. TIBBITS.