

(Model.)

J. W. NORCROSS.

DOOR LOCK.

No. 248,780.

Patented Oct. 25, 1881.

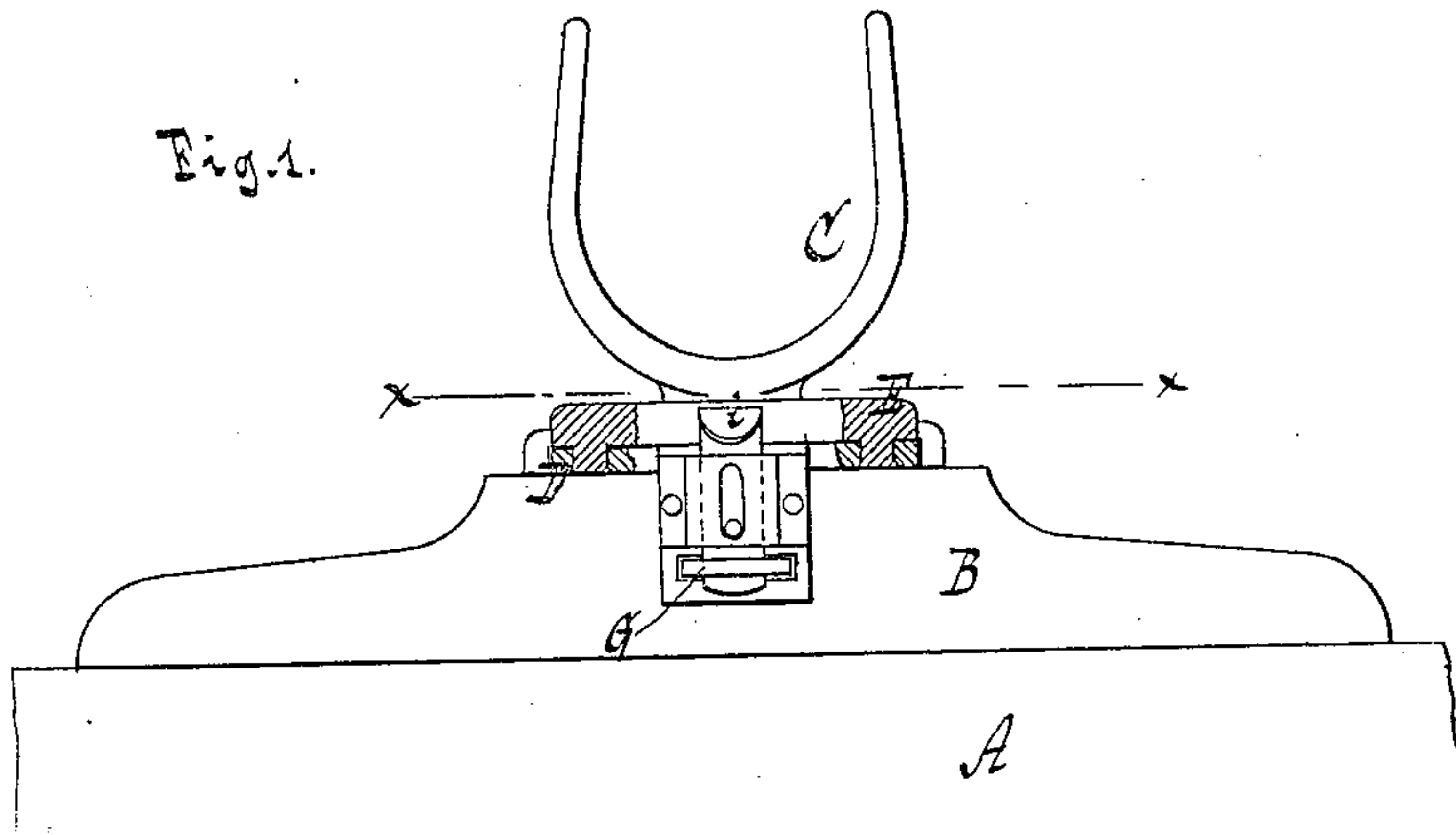
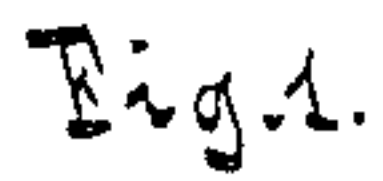


Fig. 2.

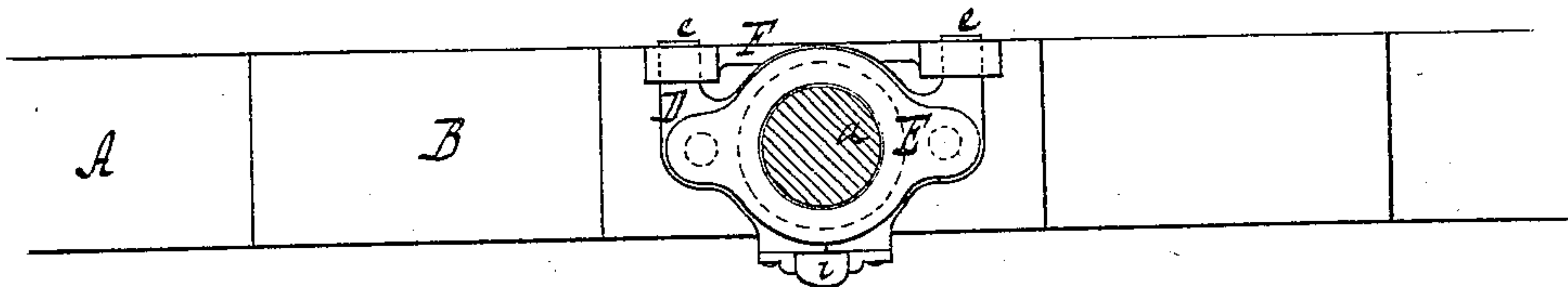


Fig. 3.

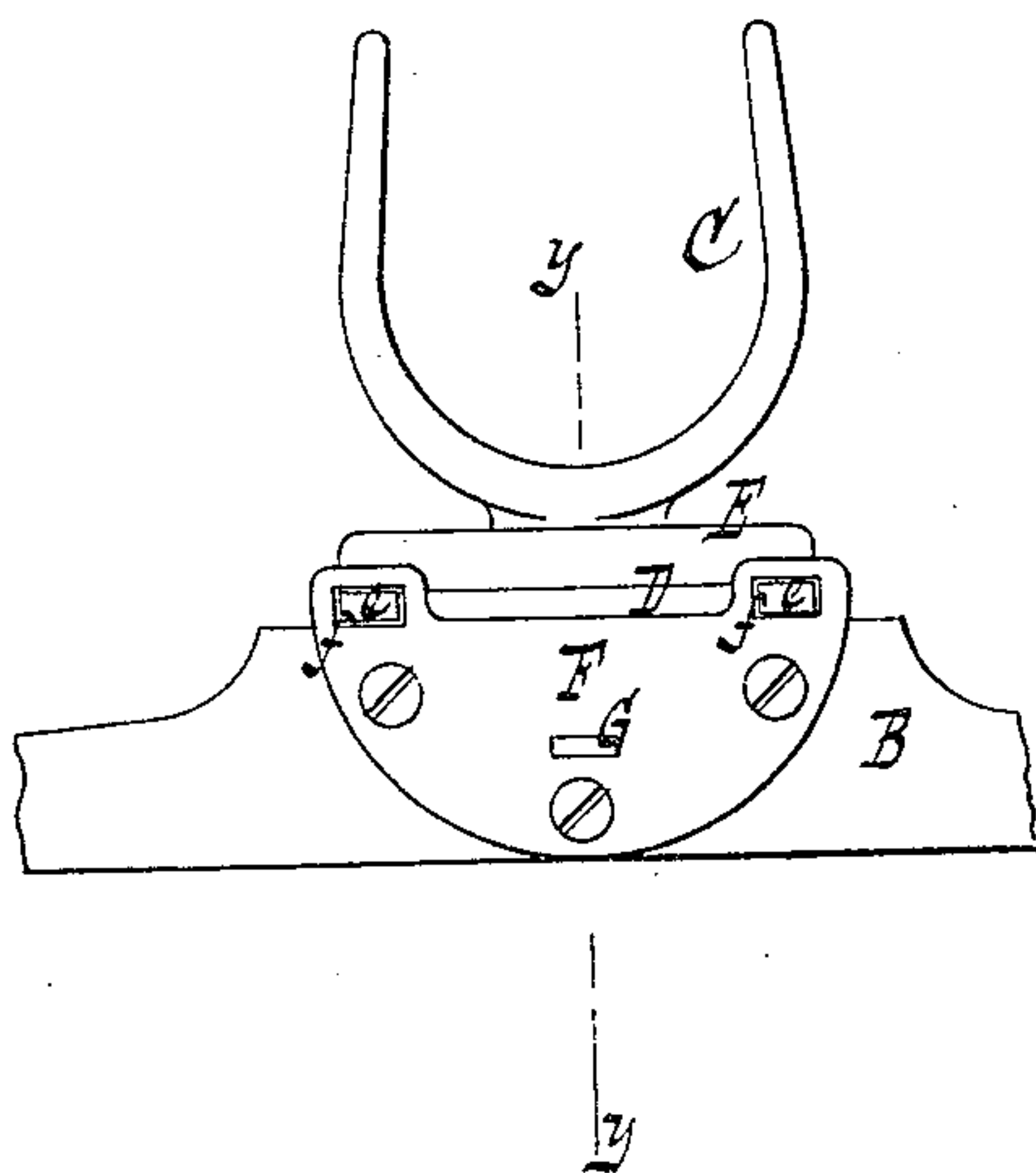


Fig.5

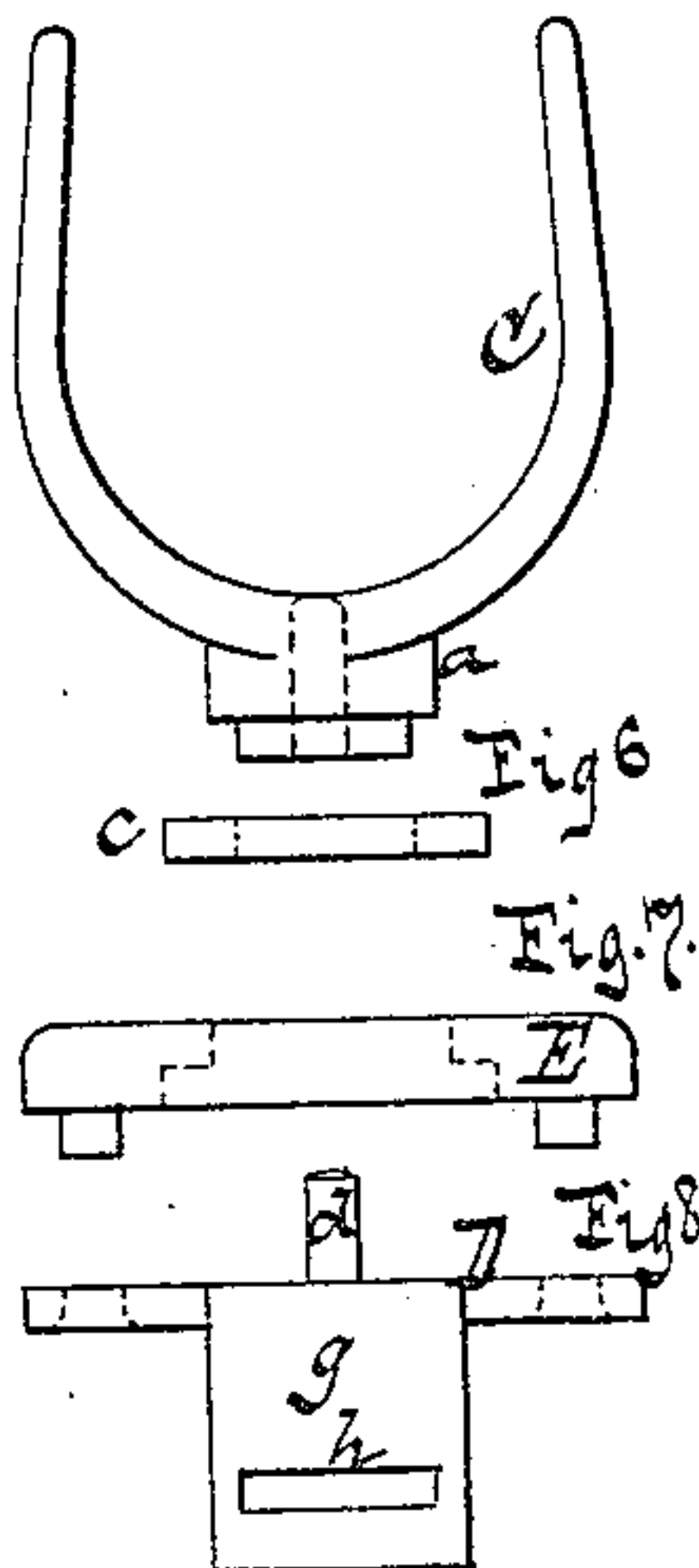
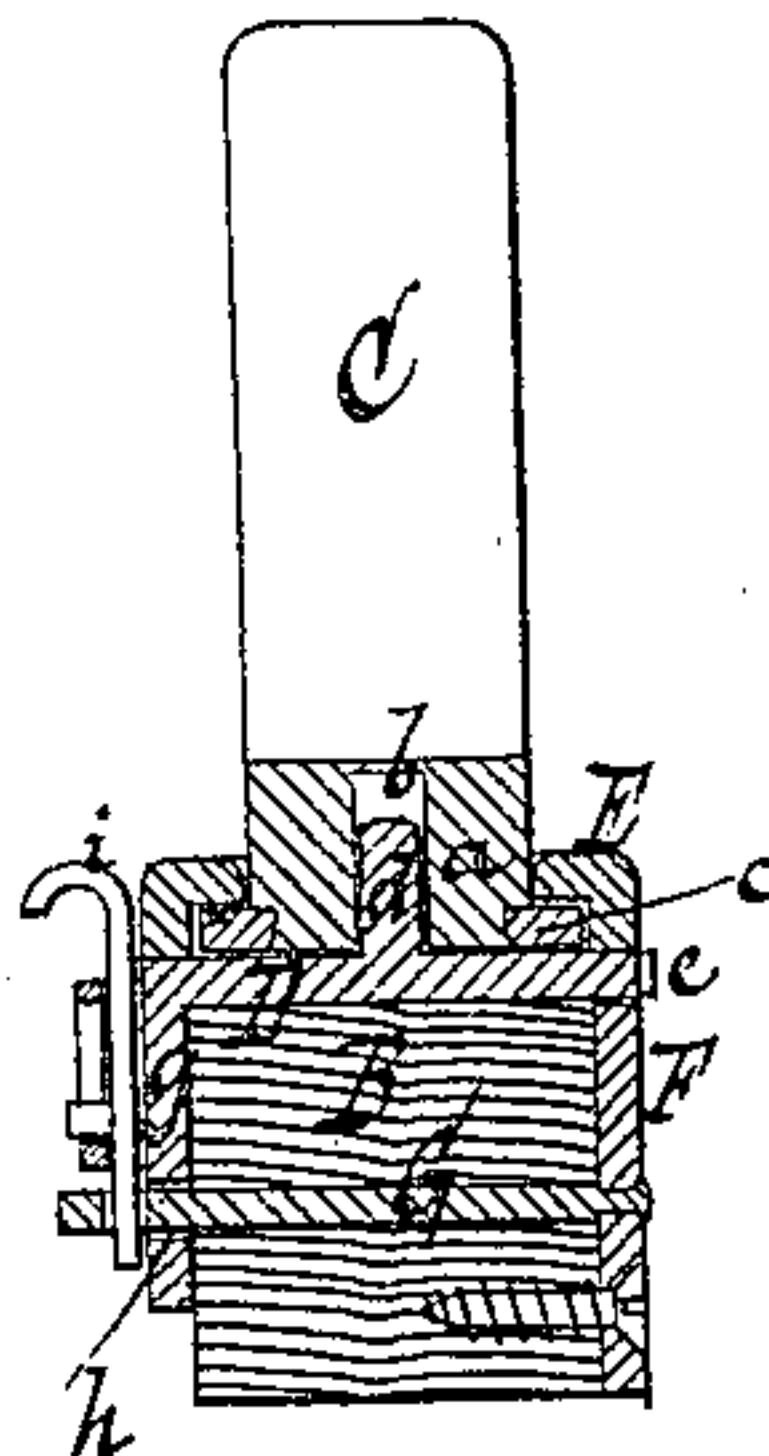


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH W. NORCROSS, OF LOCKPORT, NEW YORK.

OAR-LOCK.

SPECIFICATION forming part of Letters Patent No. 248,780, dated October 25, 1881.

Application filed July 16, 1881. (Model.)

To all whom it may concern:

Be it known that I, JOSEPH W. NORCROSS, a citizen of the United States, residing at Lockport, in the county of Niagara and State of New York, have invented new and useful Improvements in Rowlocks, of which the following is a specification.

This invention relates to a rowlock which, together with its supporting-plate, can be unshipped, so as to leave the edge of the gunwale-rail free from any projection against which a rope can catch. The particular construction of my rowlock, and of the devices for fastening and releasing the same, are pointed out and explained in the following specification.

This invention is illustrated in the accompanying drawings, in which Figure 1 represents a sectional inside view of my rowlock. Fig. 2 is a horizontal section of the same in the plane $x x$, Fig. 1. Fig. 3 is an outside view of the same. Fig. 4 is a transverse vertical section in the plane $y y$, Fig. 3. Figs. 5, 6, 7, and 8 show the parts of my rowlock detached from each other.

Similar letters indicate corresponding parts.

In the drawings the letter A designates the gunwale of a boat, and B is the gunwale-rail which supports the rowlock.

My rowlock consists of the horns C, which are provided with a stem, a . In this stem is bored an axial hole, b , Fig. 5, and from its end projects a circular flange, c , Figs. 4 and 6. D is the base-plate of my rowlock. (See Fig. 8.) From this base-plate rises a pin, d , Fig. 4, which engages with the hole b in the stem of the horns C, and on said base-plate is firmly secured a cap, E, Fig. 7, which catches over the circular flange c , so that the horns revolve on the pin d , and are held down upon the base-plate by the cap E.

The circular flange c may be cast solid with the stem of the horns, and in this case the cap E must be made in two halves; but I prefer to make the circular flange separate from the stem a , and secure it thereto, by riveting or otherwise, after the stem has been passed through the cap E, which in this case is made in one piece. (See Fig. 8.)

From the base-plate D extend two lugs, $e e$, which engage with holes $f f$, formed in a plate or bracket F that is firmly secured to the outside of the gunwale-rail B. From this bracket extends a bar, G, through the gunwale-rail, Fig. 4, and the base-plate D is provided with a downwardly-projecting flange, g , Figs. 1, 4, and 8, which has a flat eye, h , to catch over the bar G, Fig. 4.

On the flange g is secured a sliding bolt, i , which, when the rowlock is in position, engages with an eye in the bar G, Figs. 1 and 4. By means of the lugs $e e$, bracket F, bar G, and bolt i , therefore, my rowlock is firmly secured to the gunwale-rail B, and if the bolt i is raised, the rowlock—that is to say, the horns, the base-plate D, and the cap E—can be readily unshipped, leaving only the bracket F on the gunwale-rail, and this bracket is made in such a form that it is not liable to catch in a rope which may sweep over the gunwale. In this respect my present invention is superior to that described in my Patent No. 44,446, dated September 27, 1864, in which the horns revolve in a supporting-plate which is fastened to the upper surface of the gunwale-rail, and which, when the horns are removed, is liable to catch ropes sweeping over the edges of the gunwales, thereby endangering the boats.

The rowlock which forms the subject-matter of my present invention is so constructed that it can be bodily removed or unshipped, horns, base-plate, and all, and no place is left for a rope to catch against and to swamp the boat. Besides this my new rowlock is simple in its construction, it requires comparatively little stock for its construction, it is extremely durable, and readily attached to or detached from the gunwale.

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

1. The combination of the bracket F and transverse bar G with the base-plate D, provided with a depending flange, g , through which the transverse bar projects, the horns swiveled on the base-plate and the bolt engaging the outer end of the transverse bar, substantially as described.

2. The combination of the base-plate D, provided with the vertical pin *d*, the horns having a stem provided with an axial aperture, *b*, swiveled upon the said vertical pin, the annular flange *c*, secured to the lower end of the stem of the horns, and the cap E, connected with the base-plate and confining the said annular flange, but permitting it to rotate with the horns, substantially as described.

In testimony whereof I have hereunto set to my hand and seal in the presence of two subscribing witnesses.

JOSEPH W. NORCROSS. [L. S.]

Witnesses:

W. HAUFF,
E. F. KASTENHUBER.