

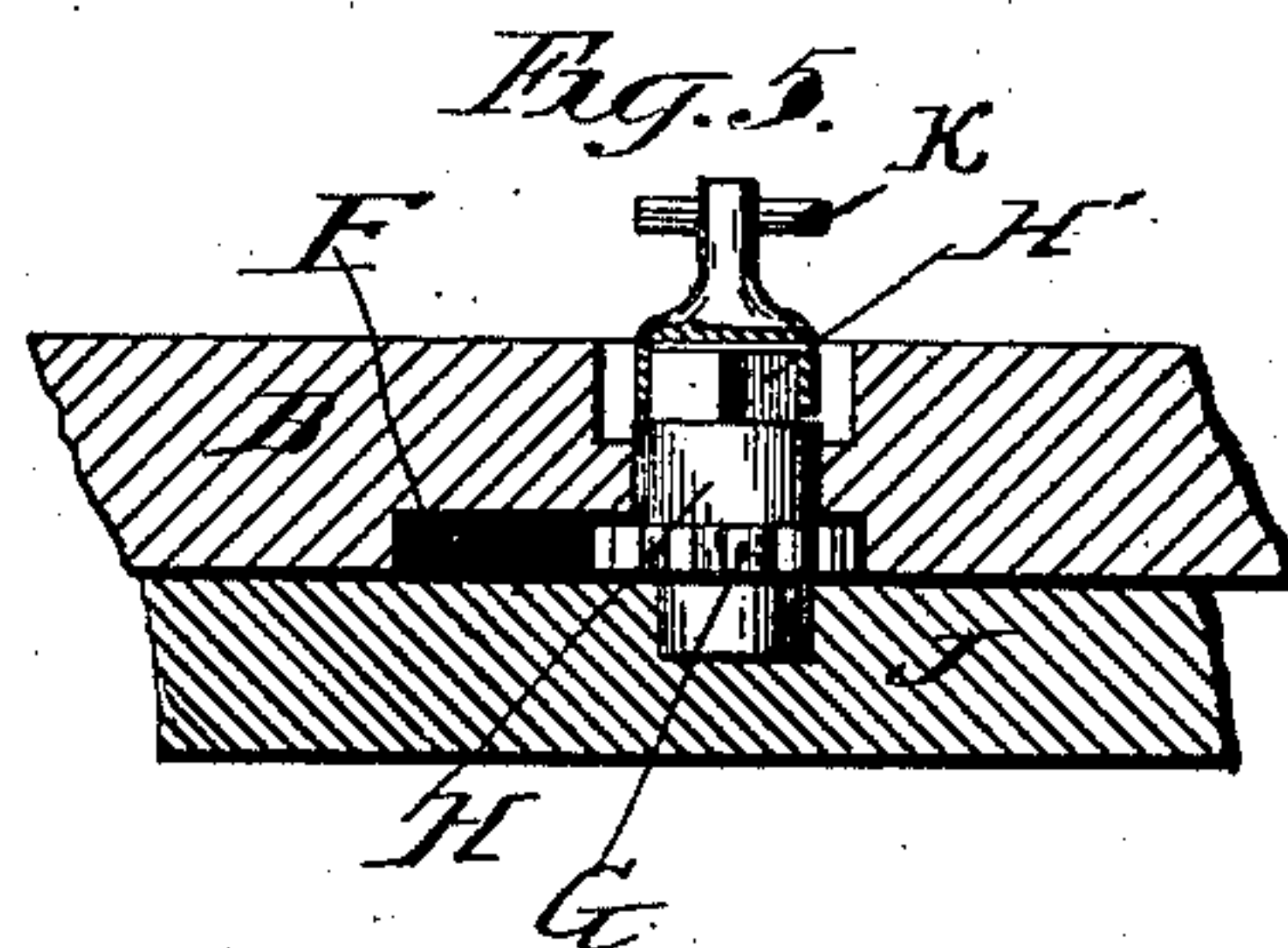
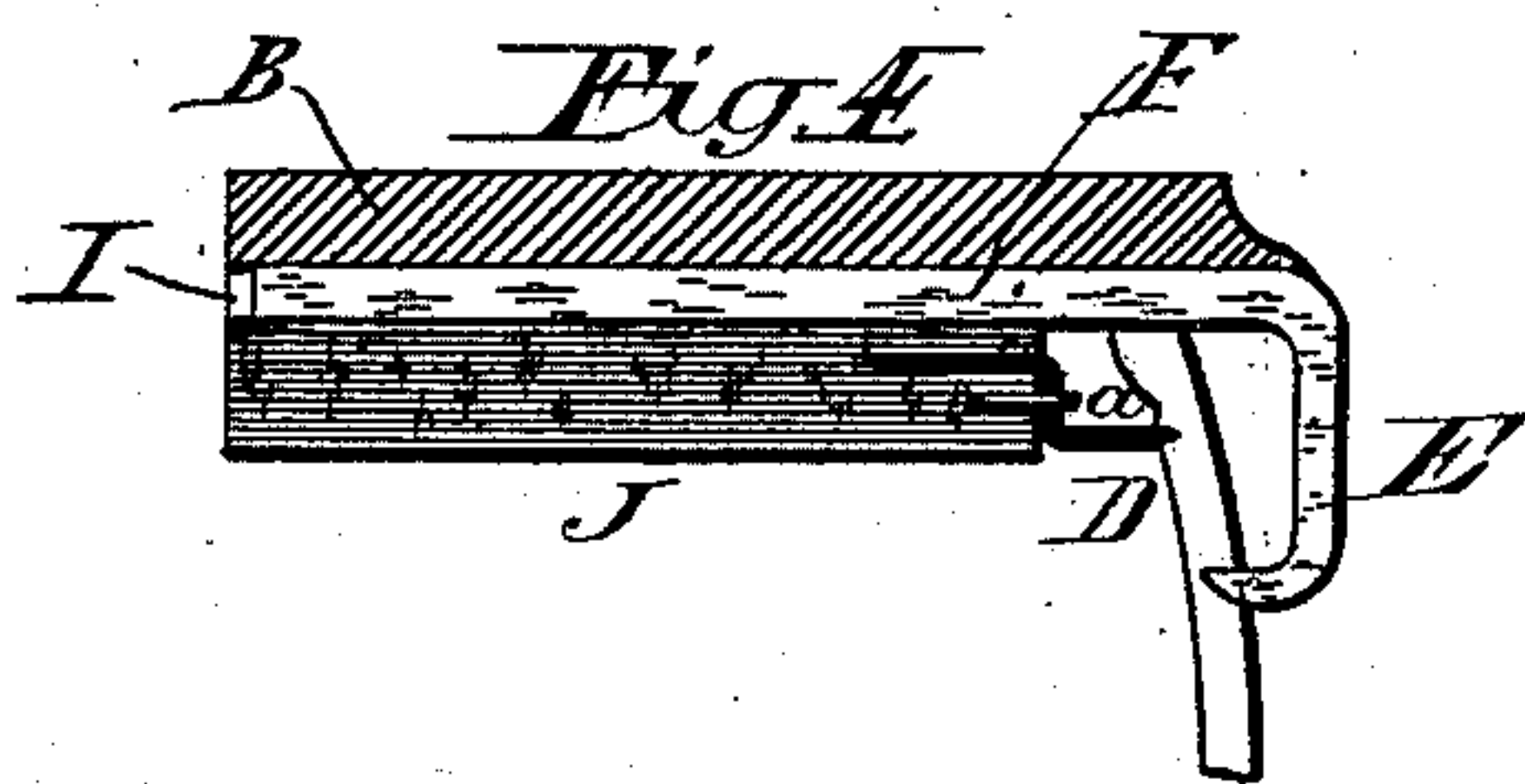
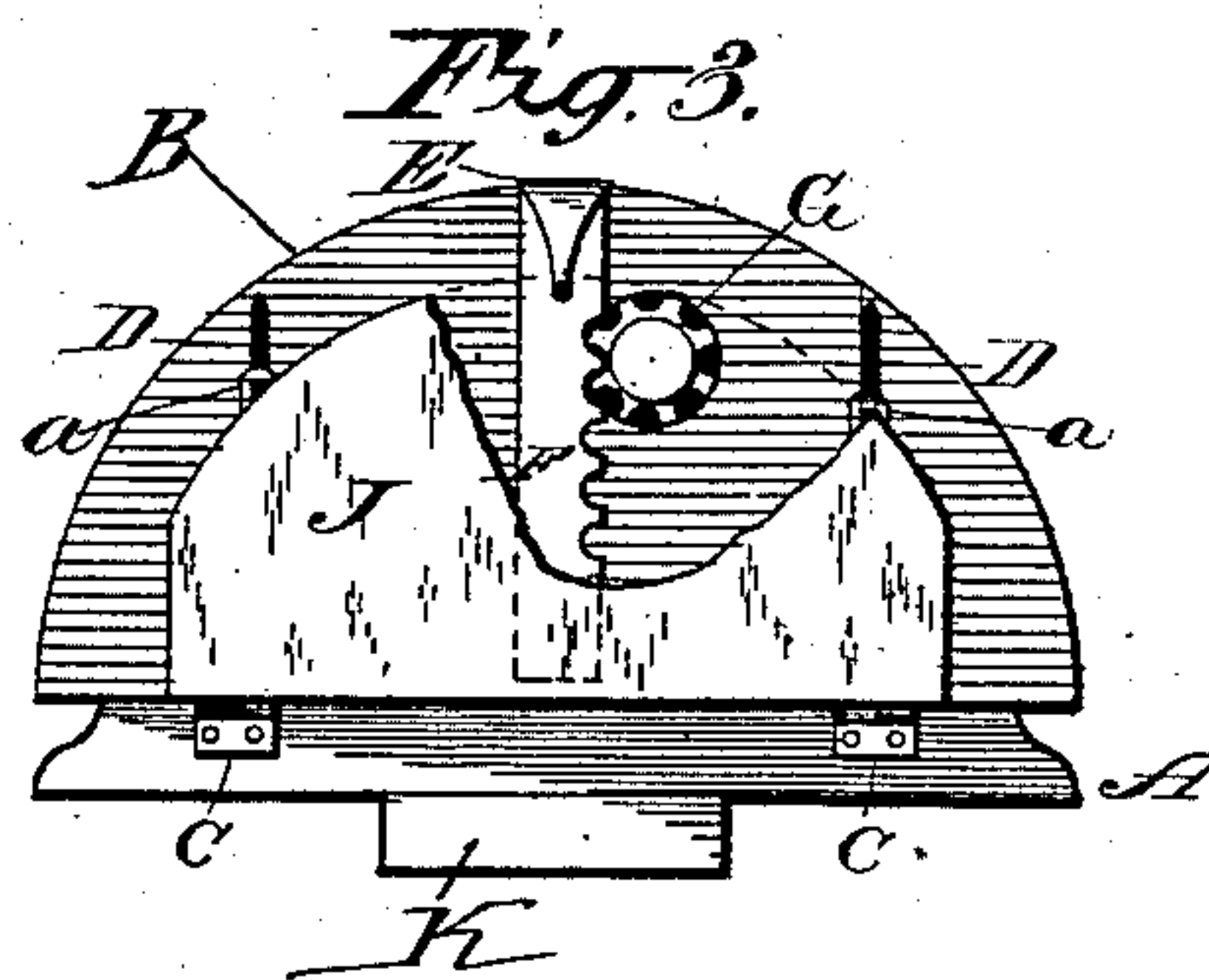
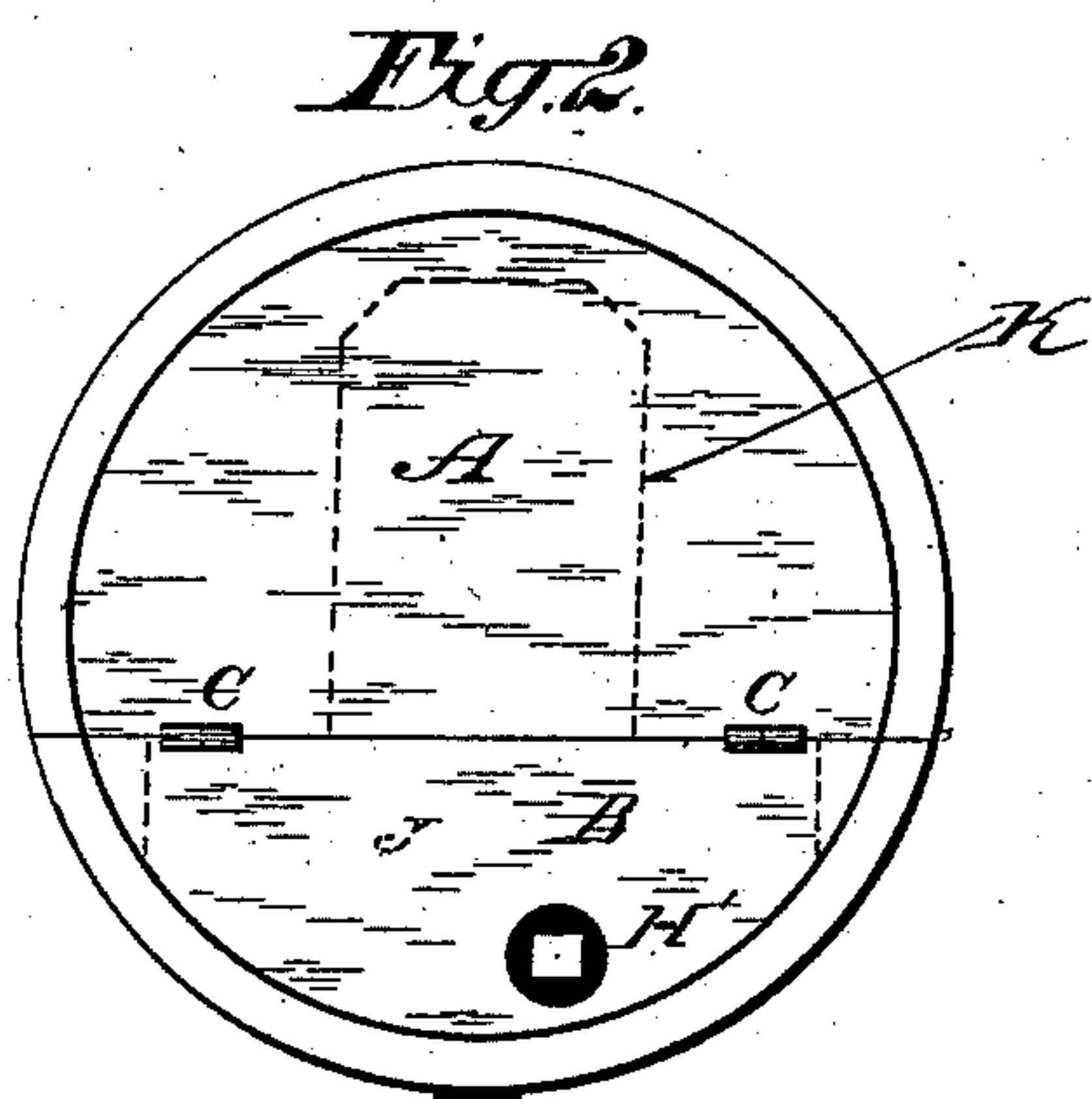
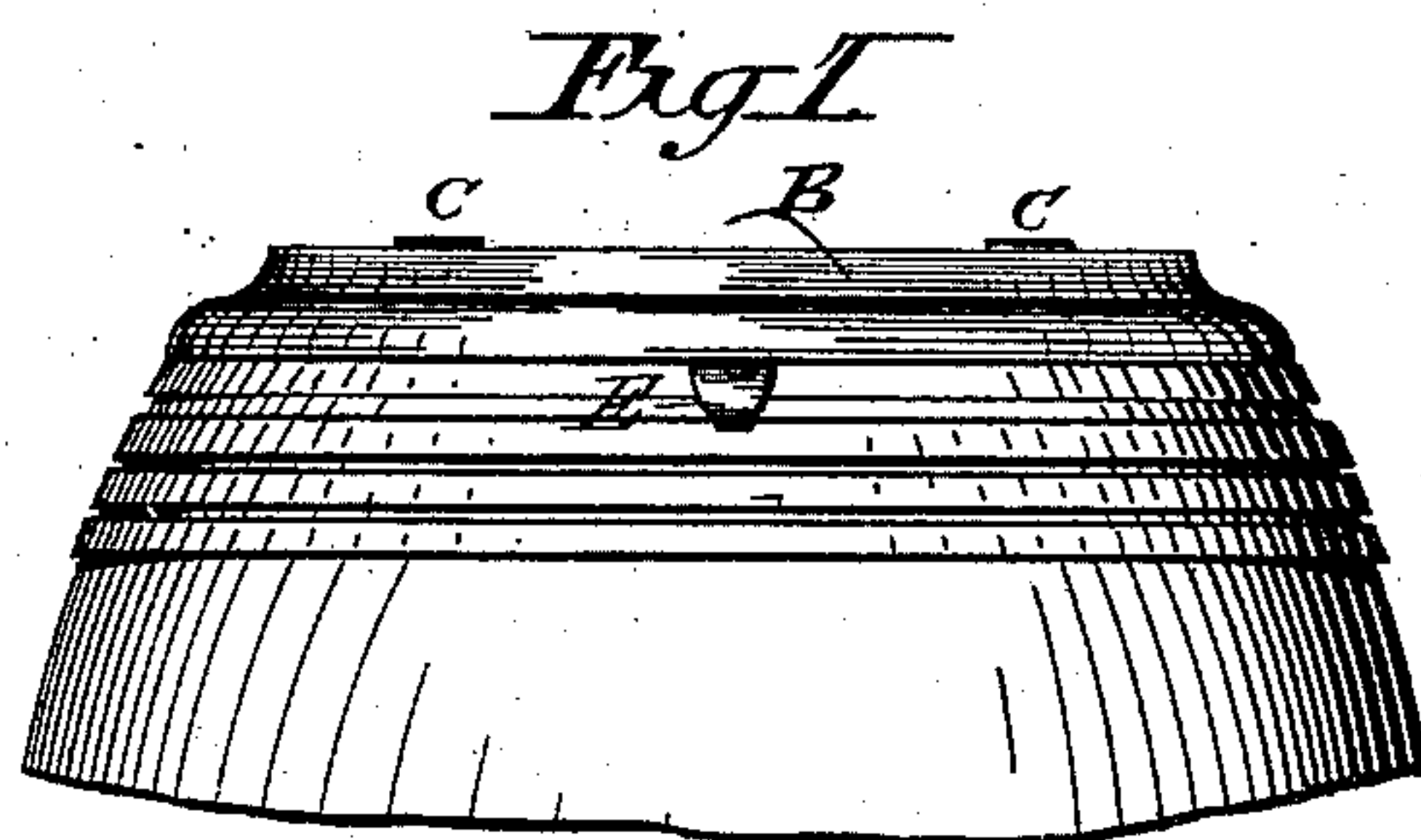
(No Model.)

H. MANN.

DETACHABLE BARREL COVER.

No. 294,057.

Patented Feb. 26, 1884.



Witnesses:
C. B. Story.
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UNITED STATES PATENT OFFICE.

HENRY MANN, OF MILWAUKEE, WISCONSIN.

DETACHABLE BARREL-COVER.

SPECIFICATION forming part of Letters Patent No. 294,057, dated February 26, 1884.

Application filed June 13, 1883. (No model.)

To all whom it may concern:

Be it known that I, HENRY MANN, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Detachable Barrel-Covers; 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in devices for attaching covers temporarily to barrels.

Heretofore it has been common to attach this class of covers by retaining hooks and brads which were forced into the surface of the chine by the action of screws located beneath the cover, in which case it becomes necessary for a person to insert his hand beneath the cover when attaching and detaching them. It is obvious that when a barrel is filled with flour or other similar substances it would be difficult to reach the attaching-screws thus located without soiling one's hands and clothes with the contents of the barrel.

The object of my improvement is, first, to provide a device by which the cover may be attached and detached from the outside; second, to so construct the device that the parts may be struck up or cut with a power-press or cast in the shape to be used, whereby they are more cheaply made than that class in which the fastening-hooks are operated by screws.

My invention is further explained by reference to the accompanying drawings, in which—

Figure 1 represents a side view of a barrel provided with my improved detachable cover. Fig. 2 is a top view of the cover. Fig. 3 is a bottom view of that part of the cover which is provided with retaining-hooks. Fig. 4 represents a vertical section of the cover, showing the manner of attaching the inner retaining-barbs, and also the manner of attaching the cover to the barrel. Fig. 5 is a vertical section of the cover on a line with the rack-pinion.

Like parts are represented by the same reference-letters throughout the several views.

The cover is formed of two pieces, A and B, which are connected together by hinges C C. The part A is adapted to be thrown back on the hinges C C when desirous to open the barrel. The part B is rigidly attached to the barrel by the pointed barbs D D and the pointed hook E. The hook E is provided with a series of cog-teeth, F, into which the pinion G is adapted to mesh. The rack-pinion G is secured to the trunnion H, by which trunnion it is revolved. The upper end, H', of the trunnion H is made angular for the reception of the wrench K, which is temporarily placed thereon when fastening and unfastening the cover. The upper end of the projection H' terminates flush with the cover. The hook E is fitted in a groove or recess, I, formed in the stationary part of the cover, and is retained therein by the cleat J. The lower end of the stud H is socketed into the cleat J, whereby it is relieved of all side strain as the hook E is drawn back against the chine of the barrel. The barbs D D are made in the peculiar angular shape shown in Fig. 4, one end of which is driven into the cleat until its shoulder is brought in contact with the edges of the cleat, when they are further secured by the staples a a. The hook E is drawn into the chine of the barrel by turning the stud H in one direction, and is forced from the chine and the cover disengaged by turning the same in the opposite direction. The chine-hook E is formed of a thin plate of metal, and the teeth may be formed thereon by cutting a series of corrugations, which may be struck up by a die and power-press, while the pinions G may be cast in the proper shape for use, and the barbs D and staples a may be formed of ordinary wire in the shape shown. Thus it is obvious that the operative mechanism is quickly and cheaply made and easily attached to the cover.

When the cover is attached the wrench may be removed, thus leaving no part of the attaching device projecting above the cover.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a detachable barrel-cover provided with outward-projecting barbs adapted to engage against the inner surface of a barrel-chine, chine-hook E, the shank of

which is provided with a series of cog-teeth, rack-pinion G, and stud H, said chine-hook being adapted to be moved horizontally and inserted and withdrawn from the chine by
5 turning said stud, substantially as set forth.

2. The combination, with the stationary leaf of a detachable cover, of the chine-hook E, provided with a series of teeth, F, retaining-block J, provided with projecting barbs D, and
10 rack-pinion G, adapted to engage in the teeth of said chine-hook E, said pinion G being provided with angular projection H' for the reception of a wrench, said chine-hook E and

barbs D being adapted to be inserted in the respective sides of the chine by turning said stud in one direction, and withdrawn therefrom by turning said stud in the opposite direction, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY MANN.

Witnesses:

C. T. BENEDICT,
C. B. STORY.