T. C. SEAMAN.

Clamp for Barrel-Heads.

No. 197,179. Patented Nov. 13, 1877.

Fig. 1

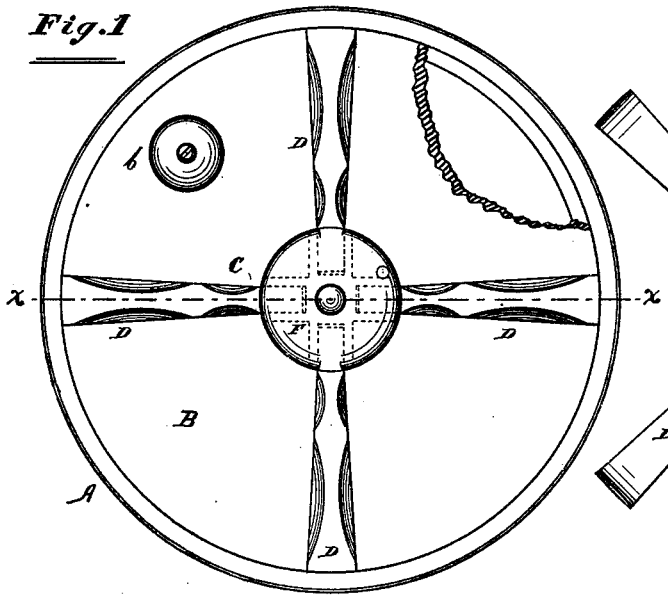
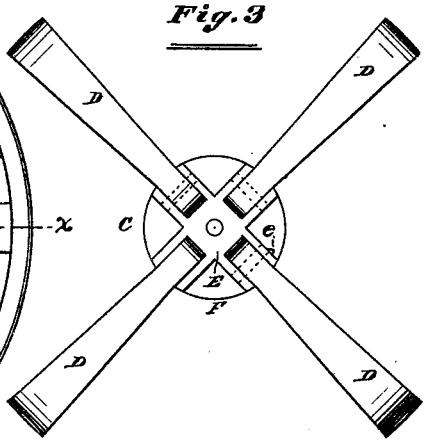


Fig. 3



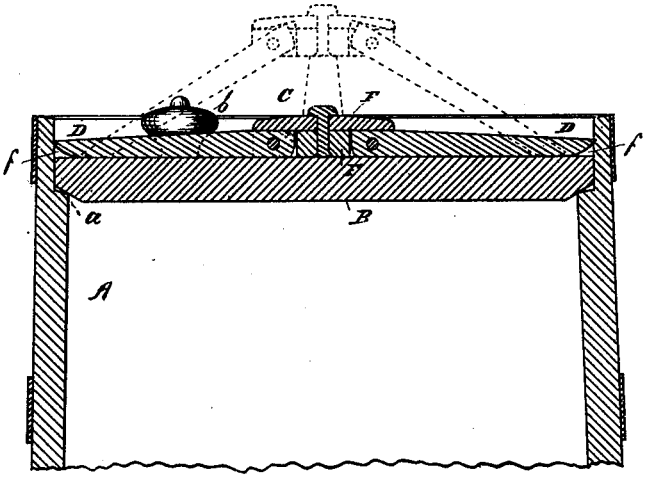


Fig. 2

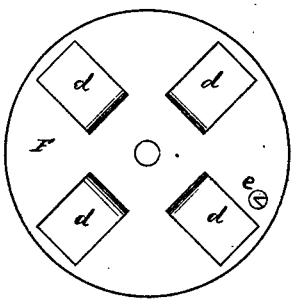


Fig. 4

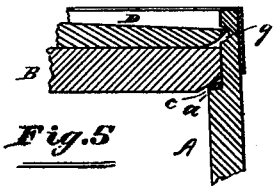


Fig. 5

Attest:

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THOMAS C. SEAMAN, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN CLAMPS FOR BARREL-HEADS.

Specification forming part of Letters Patent No. **197,179**, dated November 13, 1877; application filed September 24, 1877.

To all whom it may concern:

Be it known that I, THOMAS C. SEAMAN, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Clamps for Barrel-Heads, of which invention the following is a specification, reference being had to the accompanying drawing, in which—

Figure 1 is a top view of my improved clamp applied to a barrel; Fig. 2, a bottom view of the clamp; Fig. 3, a section in the plane of the line *x x*; Fig. 4, a bottom view of the rotary disk or button; and Fig. 5, a section representing some modification of the parts shown in Fig. 3.

In the drawing, A represents a barrel shouldered at *a* to receive a head, B, the latter being removable without removing the upper hoops.

To facilitate the removal of the head, it may be provided with a knob, *b*. A tight joint can be made by placing a packing, *c*, upon the shoulder *a*, as represented in Fig. 5.

C is the clamp, which consists of the arms D D, knuckle-jointed to the center block E, to the latter of which the locking disk or button F is pivoted. Any of the opposite arms operate as a toggle when the clamp is arranged on the head, as indicated in Fig. 3, the lower face of the disk F being arched or formed, as at *d d*, to receive the articulated ends of the arms D D, and allow the latter to assume the position indicated by the broken lines in Fig. 3. The remaining part of the lower surface of the disk F is flush with the upper side of the arms D D when they occupy a horizontal position, as is also indicated in Fig. 3, so that when the disk is turned on its pivot, so as to carry the recesses *d d* away from or between the arms D D, the latter will be locked in a horizontal position.

To unlock the arms, the disk must be turned until the recesses *d d* are over the arms.

e is a stop to limit the rotation of the disk F.

The outer ends of the arms D D are beveled, as shown at *f f*, so that the arms will act as levers in depressing the head firmly when the clamp is pressed, and so that the ends of the arms will be sharp enough to enter the chine slightly, it being understood that the arms are long enough to admit of that result.

A groove, *g*, may be made in the chine, if deemed desirable.

It will be perceived that the head will be very firmly held in its place by means of this clamp, and that the clamp and head may be easily removed. The clamp is arranged within the chine and engages its inner face only, being thus protected and shielded.

The clamp is simple in its construction and operation, and is strong, durable, and cheap. It may be also used to hold in the heads of casks, kegs, pails, and boxes, and other like cooperage articles.

The free ends of the arms D D may be notched or toothed to make them retain their hold upon the chine with certainty, if deemed necessary.

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

1. A clamp consisting of a toggle having two or more arms or levers, the free ends of which are adapted to enter the inner face of the chine, substantially as and for the purposes specified.

2. A clamp consisting of the combination of the center block E, the arms D D, two or more, and the rotary locking-disk F, substantially as and for the purposes specified.

THOS. C. SEAMAN.

Witnesses:
F. F. WARNER,
S. S. SCHOFF.