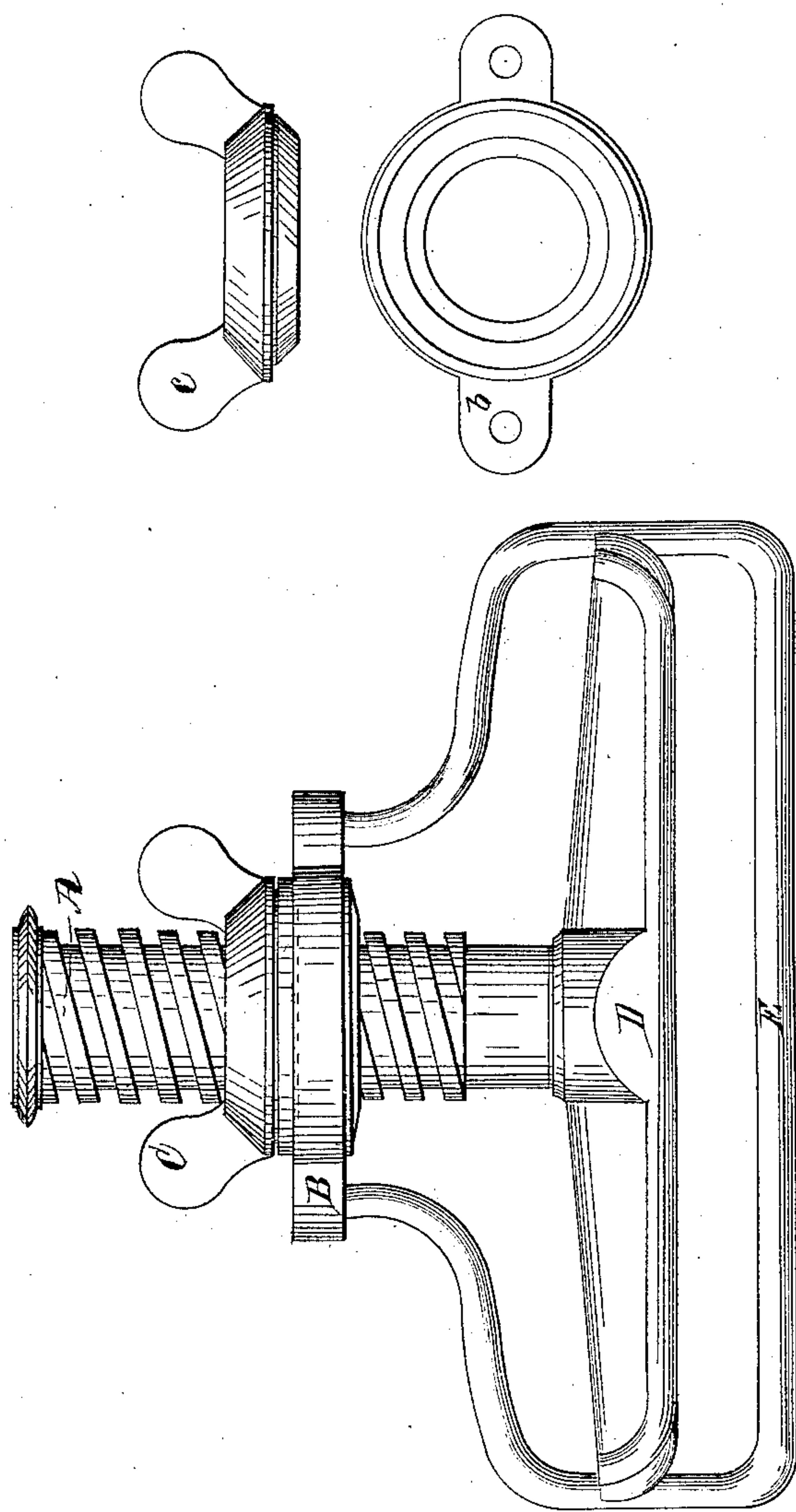


*C. Karr,
Moyn Holder.*

N^o 50,137.

Patented Sep. 26, 1865.



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UNITED STATES PATENT OFFICE.

CORYDON KARR, OF BUFFALO, NEW YORK.

MOP-HEAD.

Specification forming part of Letters Patent No. **50,137**, dated September 26, 1865.

To all whom it may concern:

Be it known that I, CORYDON KARR, of the city of Buffalo, in the county of Erie and State of New York, have invented a new and useful Improvement in Mop-Heads; and I hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a side elevation of my invention, the wood portion of the handle being omitted from the drawing. Fig. 2 is a plan view of the collar-nut B, to which the movable jaw E is affixed. (Shown separately.) Fig. 3 is a side elevation of the jam-nut C, by which the collar E is secured in position. (Shown detached.)

Like letters indicate corresponding parts in all of the figures.

The nature of my invention consists in the employment of a threaded collar carrying the movable jaw of the mop-head and working on a screw-shank, A, which is pivoted to the other jaw, together with a jam-nut, for holding the collar securely in any position required.

As represented in the drawings, A is a screw-shank, made hollow at its upper extremity to receive the ordinary wooden handle. Its opposite end is provided with a pivot, which passes through the straight jaw D, and is headed or otherwise constructed, so that the jaw may revolve freely without coming off. The other jaw, E, is rigidly connected with arms on the sides of the threaded collar B. By turning the shank A in the collar B, or vice versa, the collar traverses the thread of the shank and carries the movable jaw E to or from the stationary one, D, according to the direction in which the one is rotated.

Fitted also to the thread of the shank A is a jam-nut, C, provided with lugs or any other convenient means for turning with the hand. This nut is employed to hold the collar B firmly in the position required to clamp the mop-cloth; and the operation is this: The cloth being inserted between the two jaws, the screw-shank A is turned by the handle (or the head turned while the handle remains stationary) until the cloth is pressed between the two as tightly as necessary, when the jam-nut C is turned so as to press hard against the collar.

This fixes it immovably, as no amount of vibration or use will have the effect to loosen both screws, and by this means the mop-fastening is rendered entirely secure and a great cause of trouble is obviated.

The bearing-surface of the jam-nut is preferably made somewhat conical, and a corresponding recess provided in the collar to receive it to insure a considerable degree of friction between the two. This same result may be accomplished by casting the two surfaces with corresponding annular grooves and rings, or by simply making the surfaces flat and broad. The advantage gained by this device is, that the nut, working freely, as it should, upon the screw, will, in moving the collar back and forth to adjust it, when there is no resistance to the jaw, carry the jam-nut with it by the friction of their adjoining surfaces (the two then acting as a single nut) and prevent the necessity of turning the jam-nut separately. When the collar is screwed down firmly on the mop-cloth, however, the effect of setting the jam-nut hard against it imparts the greater friction to the thread, and thus holds the collar immovably in place.

In mop-heads as heretofore constructed the clamping of the cloth is effected by screwing a nut or collar down, the resistance of which comes against a shoulder often formed on the wooden handle. The constant working of the mop tends to unloose the head from the handle or to unclamp the cloth, and in order to obtain a requisite shoulder for this mode of construction the handle is so much weakened by being cut away that it is liable to break at this point.

The advantages of my improvement are, that greater strength is obtained both in the head and handle of the mop. The clamping of the mop-cloth is entirely reliable. The collar moves from the jam-nut in the act of spreading the jaws to change the cloth, thereby making it unnecessary to remove the jam-nut by hand, and the jaws may be opened or closed by turning either the handle or the head, so that unskillful persons cannot fail of working it successfully.

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

1. The combination and arrangement of the

jam-nut C with the threaded collar B and screw-shank A, operating as and for the purposes set forth.

2. In combination with the jam-nut C and collar B, the pivoting of the screw-shank A in the stationary jaw D, whereby the opening and closing of the jaws may be effected by turning either the head or handle of the mop, substantially as described.

3. In combination with the threaded collar B and screw-shank A, forming the contiguous surfaces of the jam-nut C and collar B conical or of equivalent shape, substantially in the manner and for the purposes set forth.

CORYDON KARR.

Witnesses:

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