

No. 670,185.

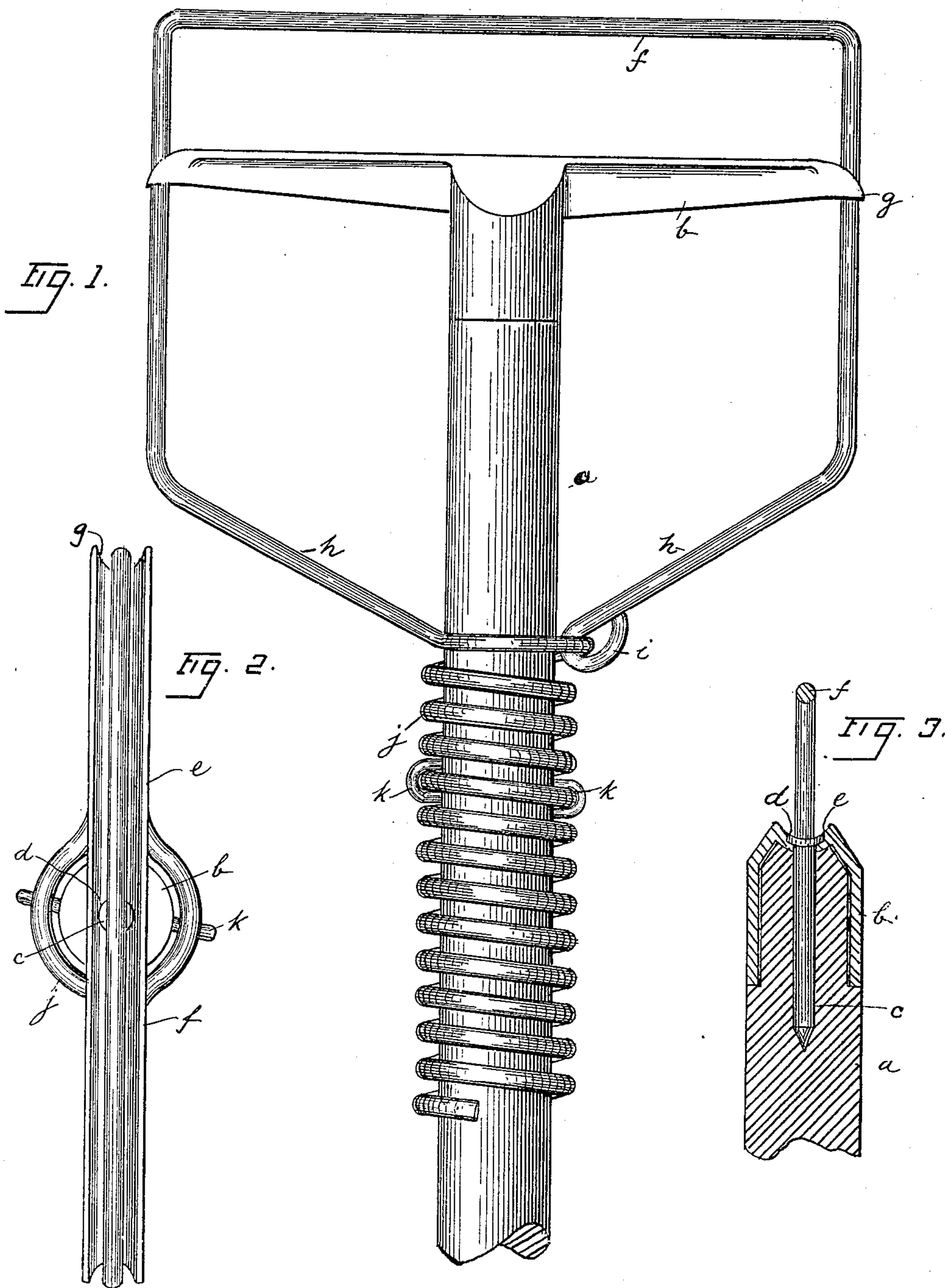
Patented Mar. 19, 1901.

J. F. McCLEARY.

MOP HEAD.

(Application filed June 2, 1900.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## MOP-HEAD.

SPECIFICATION forming part of Letters Patent No. 670,185, dated March 19, 1901.

Application filed June 2, 1900. Serial No. 18,799. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES F. McCLEARY, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Mop-Heads, of which the following is a specification.

My invention relates to improvements in mop-heads, the object of my invention being to provide a mop-head which shall be very cheap and simple in construction and convenient in operation.

My invention therefore resides in the novel construction, combination, and arrangement of parts for the above ends hereinafter fully specified, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of my improved mop-head. Fig. 2 is a top plan view thereof. Fig. 3 is a transverse section of the upper portion of the mop-head.

Referring to the drawings, *a* represents the handle of a mop, upon which is pivotally mounted the cross-head *b*. Said cross-head *b* is pivoted upon the end of the handle by means of a nail *c*, driven axially into said handle *a* through a countersunk orifice *d* in the center of the groove *e* of the cross-head. Said groove serves to securely hold the mop in place in conjunction with the yoke *f*, the side pieces of which pass through the forked ends *g* of said cross-head. The side pieces of said yoke at their inner ends are bent inward, as shown at *h*, toward the handle of the mop, one end thereof being bent into a loop *i* and the other being bent into a coil *j*, surrounding the mop-handle. The uppermost turn of the coil *j* passes through the loop *i* to connect the sides of the yoke together.

The coil *j* serves as a screw by means of which the yoke *f* is moved to or from the cross-head *b*, said coil being for this purpose passed through two staples *k*, driven into the mop-handle on opposite sides thereof.

In operation if the mop be pressed upon the ground so as to prevent the yoke from turning and the handle *a* be turned in the direction of a left-handed screw the staples *k* will draw the screw *j* up the handle away from the cross-head, and thus the yoke *f* will be

drawn up to said cross-head, clamping the mop between said cross-head and yoke. If, on the other hand, the handle *a* be revolved upon its pivotal connection with the cross-head in the direction of a right-handed screw, then the staples *k* will cause the screw to descend upon the mop-handle and the yoke to open from said cross-head to release the mop. The screw being engaged by the staple *k* at one point only, the portion of the coil lying between this point and the cross-head will act as a spring, causing the mop to be elastically held between the yoke and cross-head.

My improved mop-head is not only of a very effective and convenient form for clamping and releasing the mop, but it is also very cheap and simple in construction, containing, in fact, only two principal parts besides the handle—namely, the cross-head and the yoke and screw. By making the yoke and screw all in a single piece of wire the construction is greatly simplified and cheapened.

I claim—

1. In a mop, the combination of a handle, a cross-head rotatably mounted thereon, the portion of the handle contiguous to the cross-head being of the same diameter throughout, a yoke having freedom of movement to and from the cross-head, but constrained to rotate therewith, a screw having its interior diameter adapted to fit and slide freely over the portion of the handle contiguous to the cross-head, and a metallic stop projecting from the handle at a point thereon at a greater distance from the cross-head than the length of the screw, and adapted to engage the screw; substantially as described.

2. In a mop-head, the combination of a handle, a cross-head rotatably mounted thereon, a yoke having freedom of movement to and from the cross-head, but constrained to rotate therewith, the side pieces of said yoke having their ends bent, one into a coil or screw surrounding the handle and the other into a loop passing around a turn of the coil, and a metallic stop projecting from the handle to engage the screw to move it longitudinally when the handle is rotated relative to the cross-head, substantially as described.

3. In a mop-head, the combination of a handle, a cross-head rotatably mounted thereon,

a yoke having freedom of movement to and from said cross-head but constrained to rotate therewith, a screw for moving said yoke, said screw being formed of a piece of wire  
5 bent into a helical form and surrounding the handle, and a staple in the handle through which the screw passes, substantially as described.

In witness whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JAMES F. McCLEARY.

Witnesses:

FRANCIS M. WRIGHT,  
FLORENCE H. WIGAND.