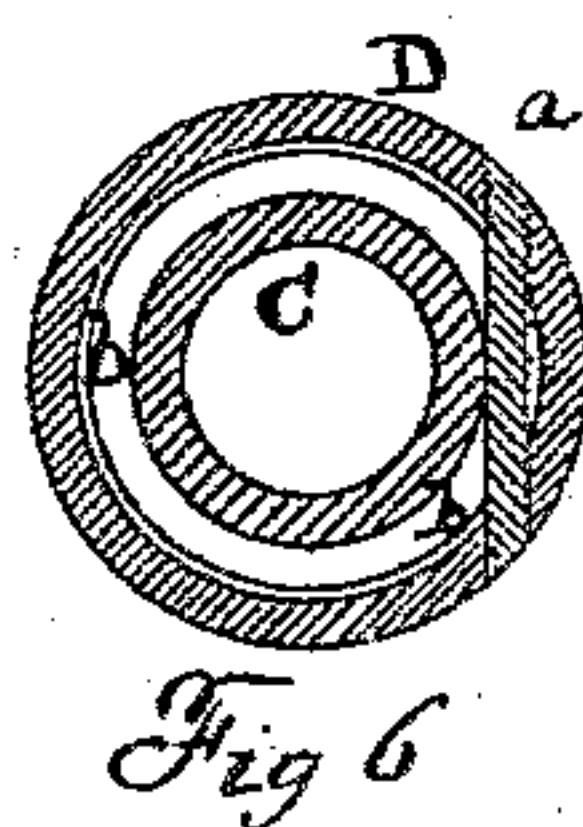
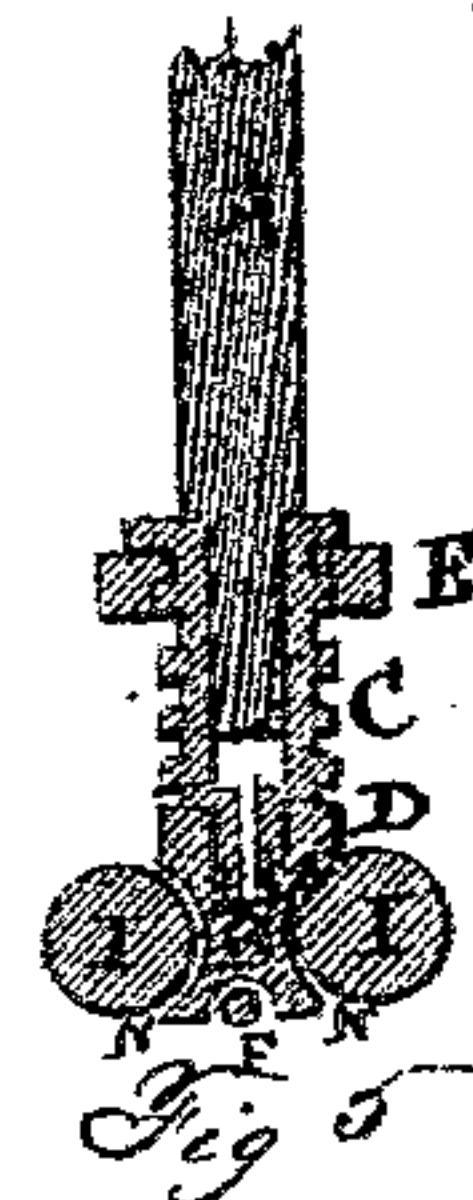
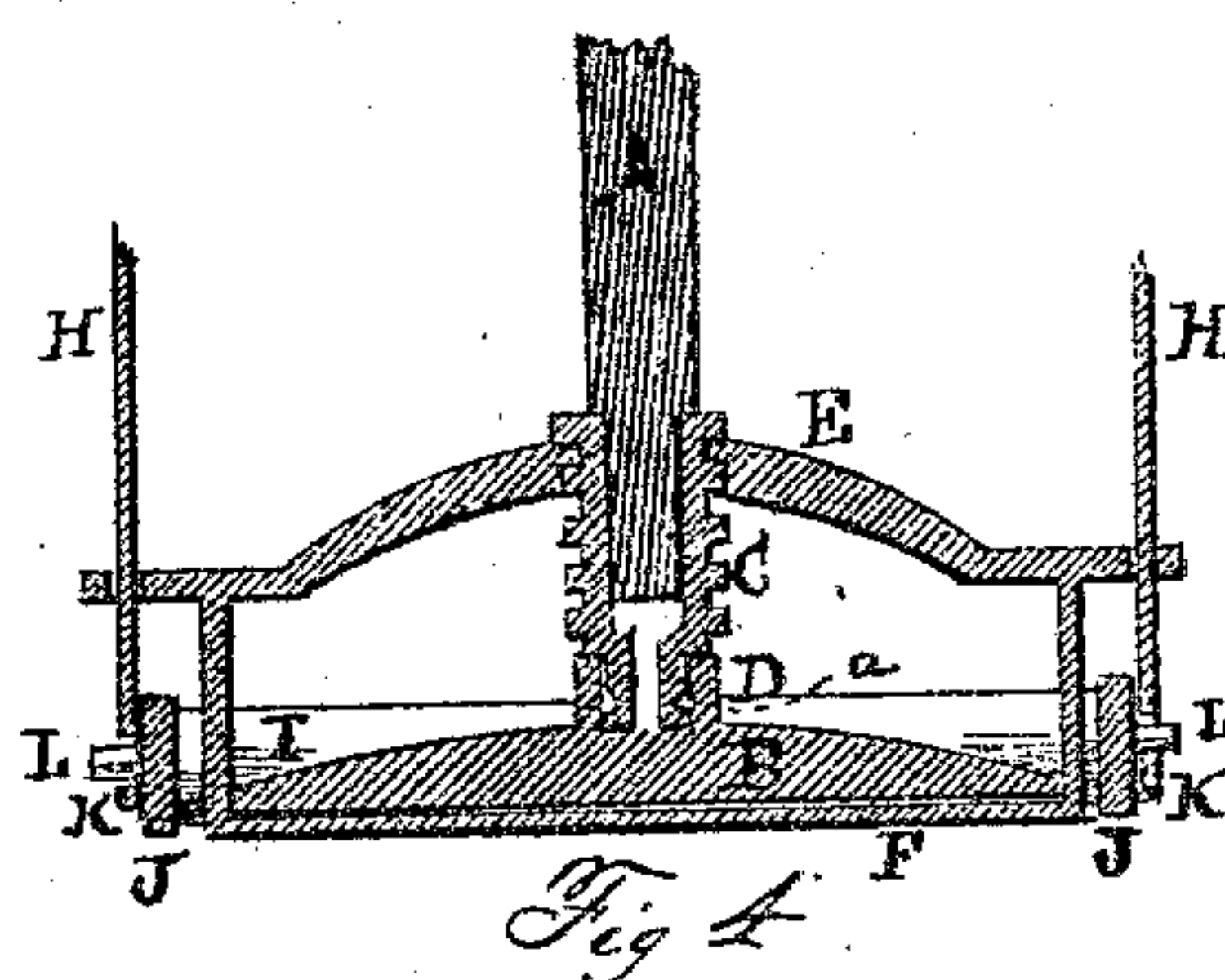
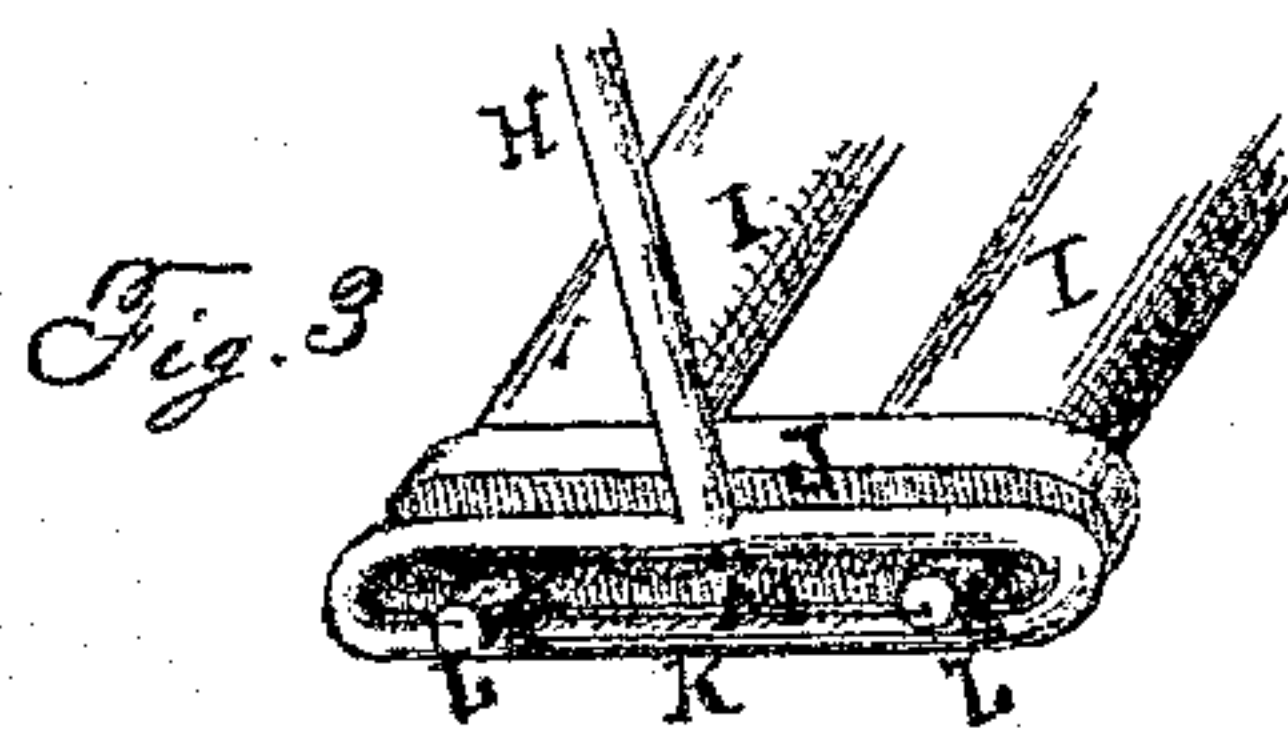
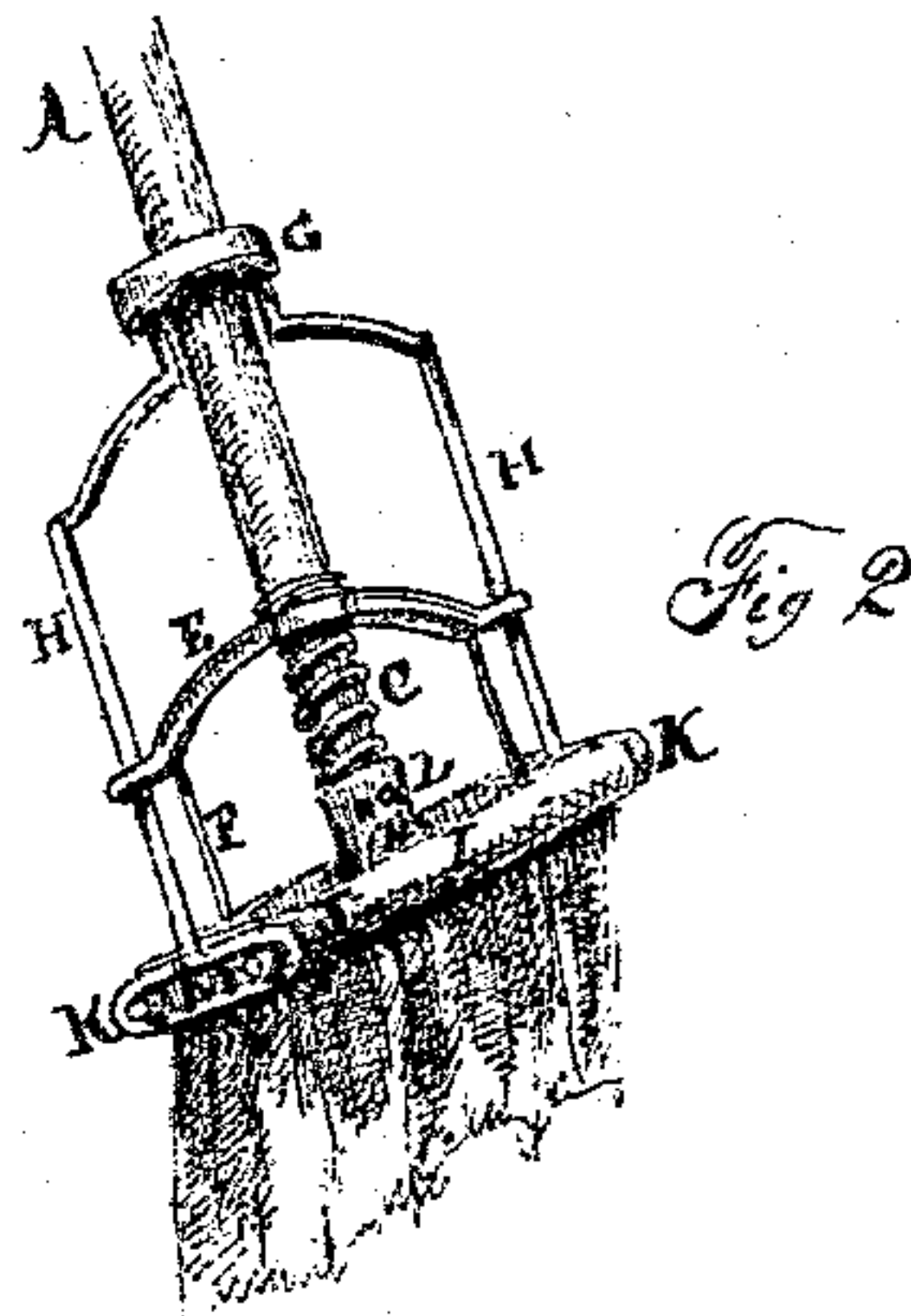
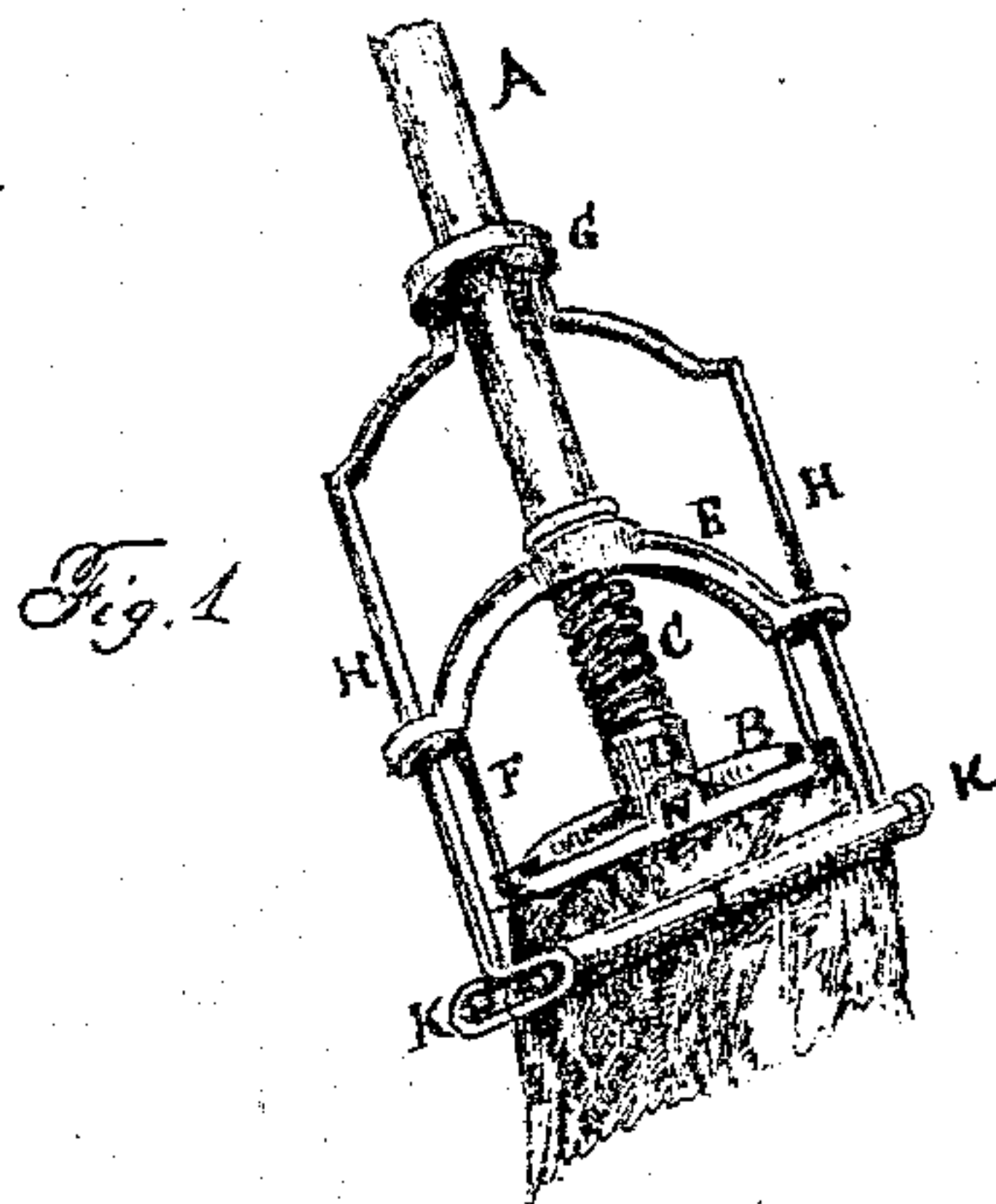


THOMAS F. ROONEY.
Improvement in Mops.

No. 115,899.

Patented June 13, 1871.



Witnesses
L. L. Bond
O. W. Bond

Inventor.
Thomas F. Rooney

UNITED STATES PATENT OFFICE.

THOMAS F. ROONEY, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN MOPS.

Specification forming part of Letters Patent No. 115,899, dated June 13, 1871.

I, THOMAS F. ROONEY, of the city of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Mops, of which the following is a full description, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a perspective view, showing the wringer in use; Fig. 2, a perspective, showing the wringer in position for mopping; Fig. 3, a detail, showing the connecting of the rollers with the arm-heads; Fig. 4, a longitudinal section of the head; Fig. 5, a cross-section; and Fig. 6, a cross-section of the socket at the pin.

The nature of my invention consists in a novel mode of connecting the wringer with a mop-head and operating the same, in the mode of connecting the rollers with the sliding frame, and in the spring for operating the rollers of the wringer.

In the drawing, A represents the handle; B, the cross-head; C, the screw; D, the screw-socket; E F, the screw-frame for securing the cloth to the mop; G, a sliding ring or disk for moving the wringer; H, curved arms connecting the ring G with the rollers and with the ring constituting the wringer-frame or sliding frame; I, rollers; J, springs; K, heads of the arms H; L, roller-pinions; M, slots or openings forming the journal-bearings of the rollers in the heads K; N, depressions or stops for holding up the wringer when not in use; a, pin or bolt passing through the socket D and into the groove b of the head of the screw to hold it in place and allow it to turn round.

I propose to make all the metallic parts of malleable cast-iron; but the parts H and F may be made of wire or wrought-iron rods, if desired. When cast, the parts E F are made of one piece, as are also the parts G and H. The screw-piece C is cast hollow at the upper end, so that the handle can be driven in and secured to it, and at the lower end or head it is provided with a groove b, made around it. It is fastened into the socket D of the cross-head by means of a pin or bolt, a, driven through the socket so as to enter the groove b, which permits the screw-piece to be turned around to operate the screw-frame E F. The heads K of the arms H are made sufficiently long to give ample play for the pinions L in the slot or opening M. Between these heads and the ends of the rollers I, I place a piece of strong

India rubber, J, through which the journals or pinions L pass. The holes through the rubber for the passage of the journals should be lined. These pieces of rubber form the springs that give the rollers their pressure upon the cloth, and are simple in their application, easily renewed, and are effectual in operation. For use in hot water it will be best to make the springs of coiled brass wire. The wringer-rollers I are made of rubber and wood or metal in the usual manner, and when drawn up out of use they rest in the indentations N of the socket D, or on a slight ledge made on the cross-head B.

In operation the foot or hand is placed upon the ring G, when a pull on the handle A will force the rollers I over the cross-head B and draw the cloth through, wringing it dry. When the wringer is to be returned, the foot is placed on some portion of the cloth and the ring G or arms H taken hold of by the hand, and the rollers lifted again into their resting-place. The action of the rollers in rolling toward each other from the top, or in turning inward, carries all of the cloth through perfectly, so that by placing the foot on any portion of the cloth all will be returned to place ready for use as a mop. The cloth is tightened or loosened by the handle A.

Having thus fully described my improved mop and wringer combined, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the ring G, arms H, and rollers I with a mop-head provided with a rest or stop, N, substantially as and for the purposes specified.

2. The combination of a mop-head with a wringer, arranged to slide thereon, substantially as and for the purpose set forth.

3. In combination with the wringing-rollers I, when mounted in the sliding arm-heads K, the springs J, as and for the purpose set forth.

4. The combination of the screw-piece C, provided with a groove, b, about its lower end, with the socket D and pin a, for the purpose of loosely connecting the socket to the screw-piece in such manner that the former will turn freely about the latter.

THOMAS F. ROONEY.

Witnesses:

L. L. BOND,
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