

J. F. McLAUGHLIN.

MOP.

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937,007.

Patented Oct. 12, 1909.

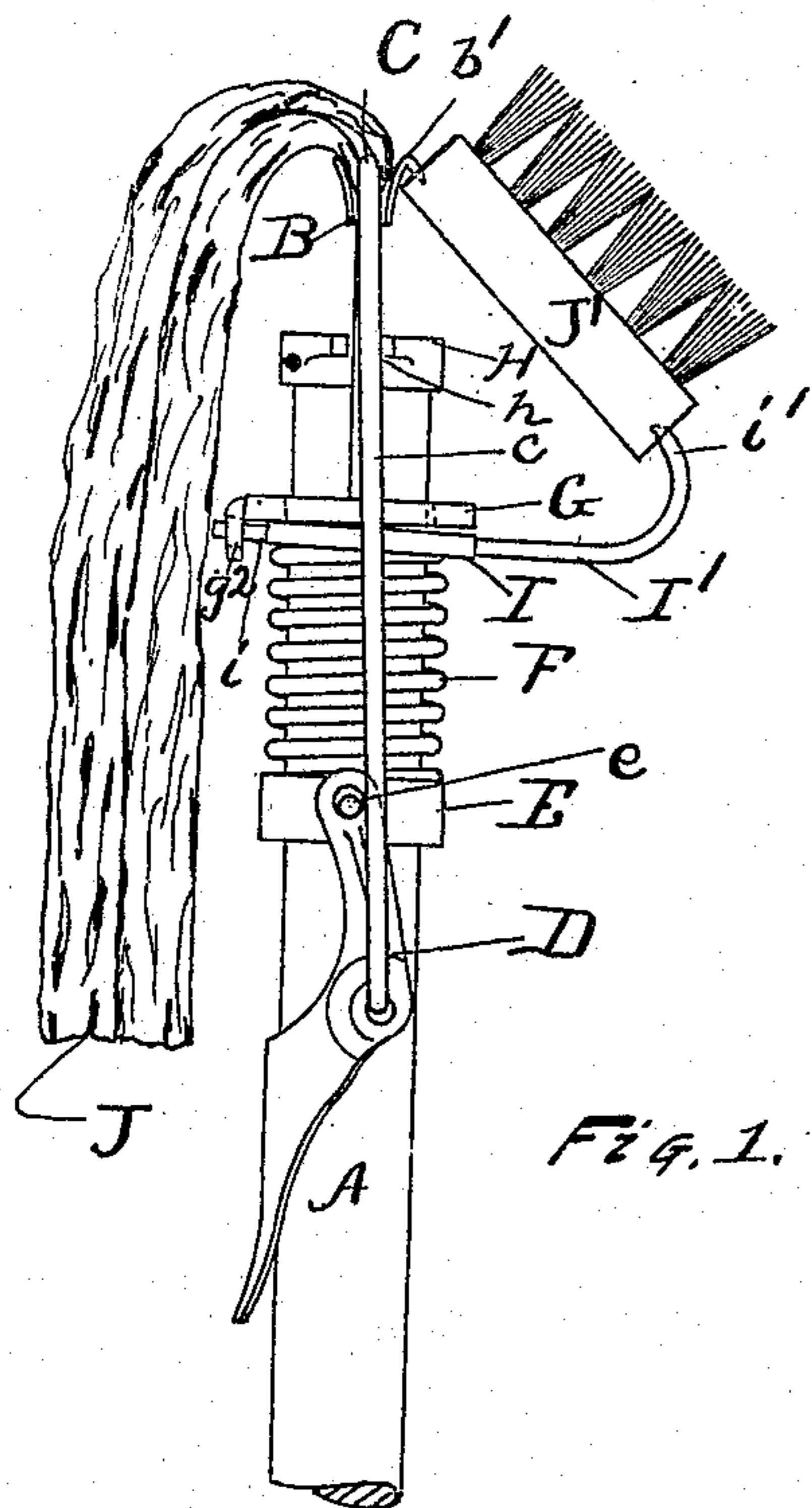


Fig. 1.

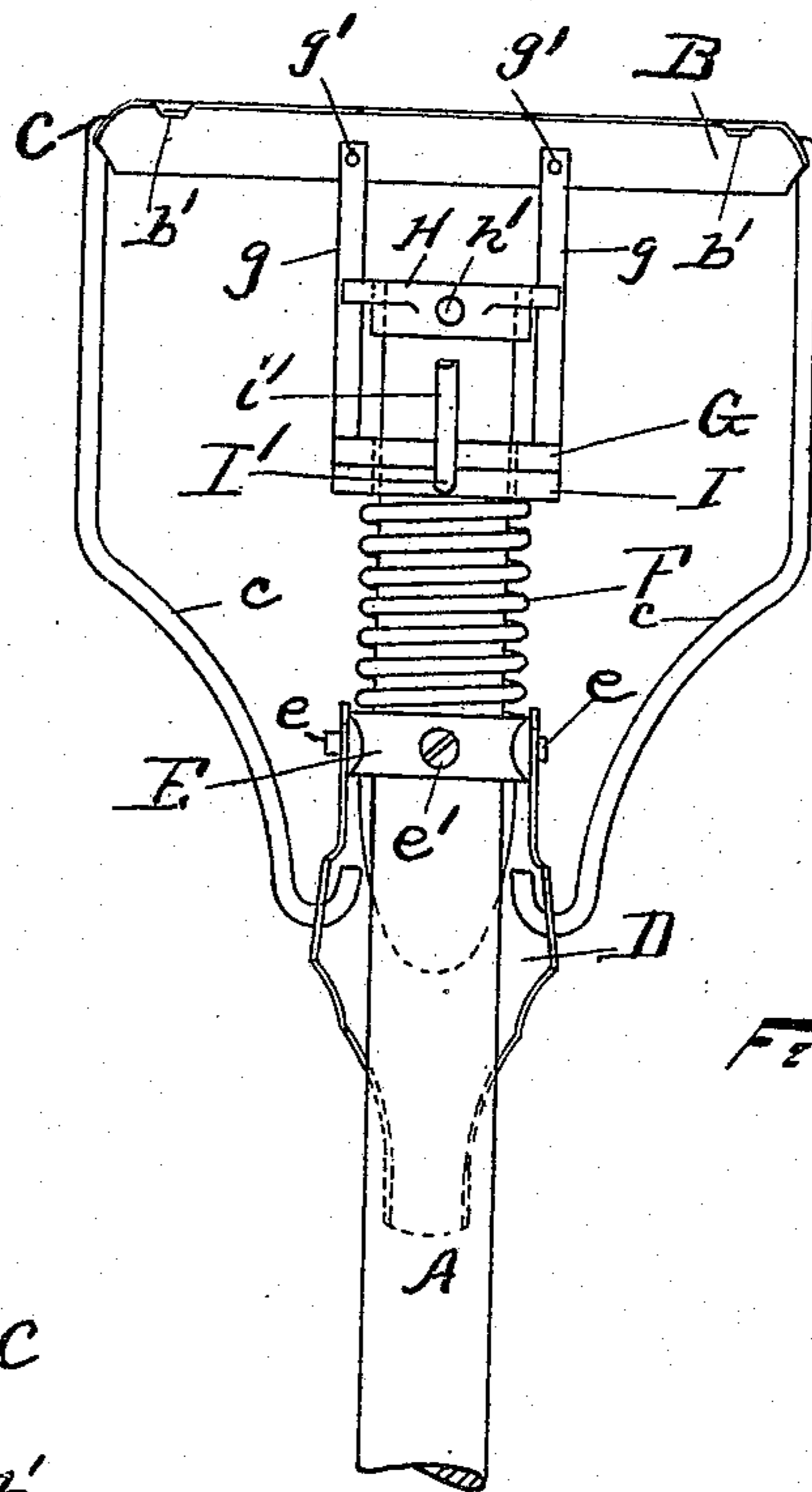


Fig. 2.

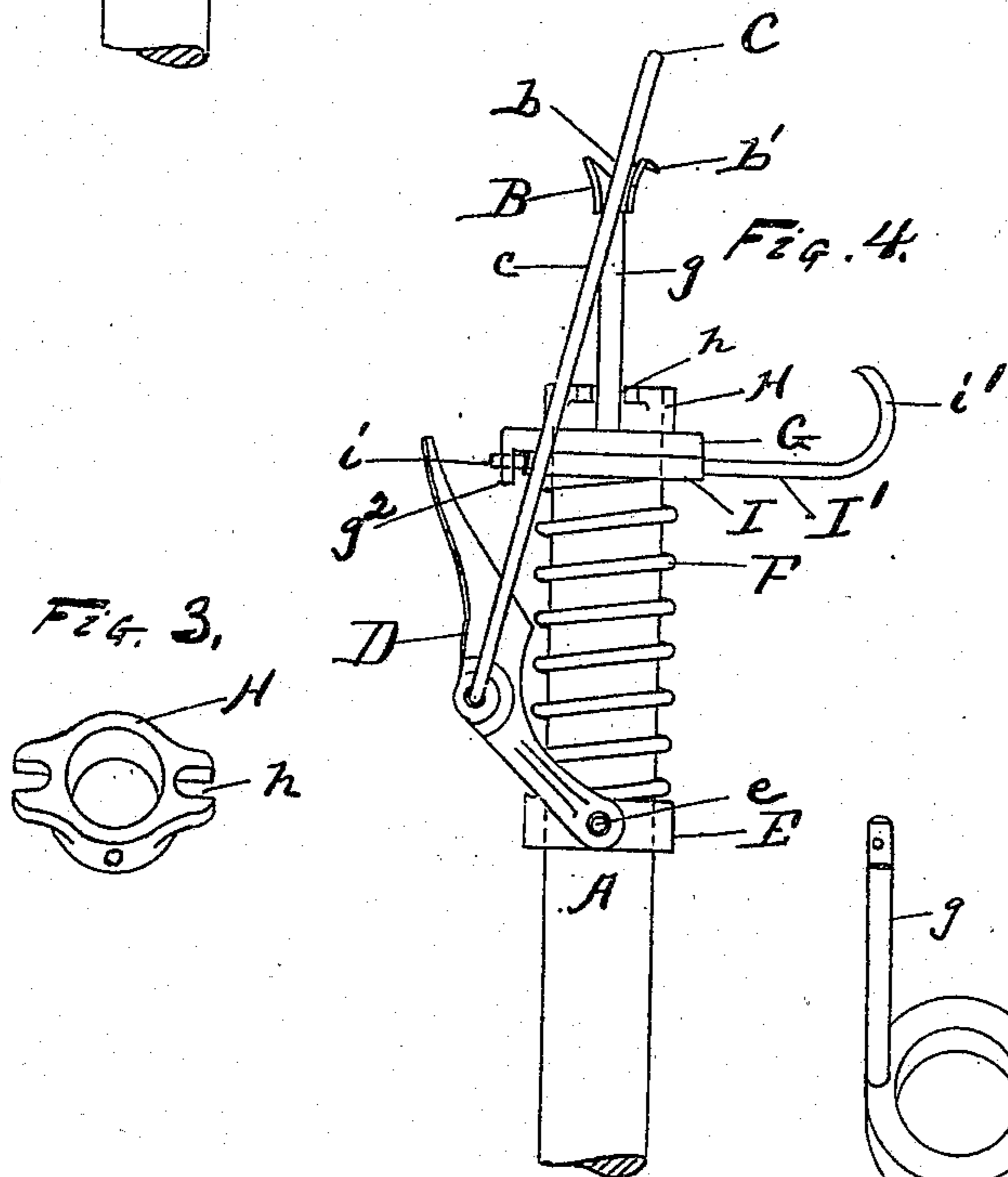


Fig. 3.

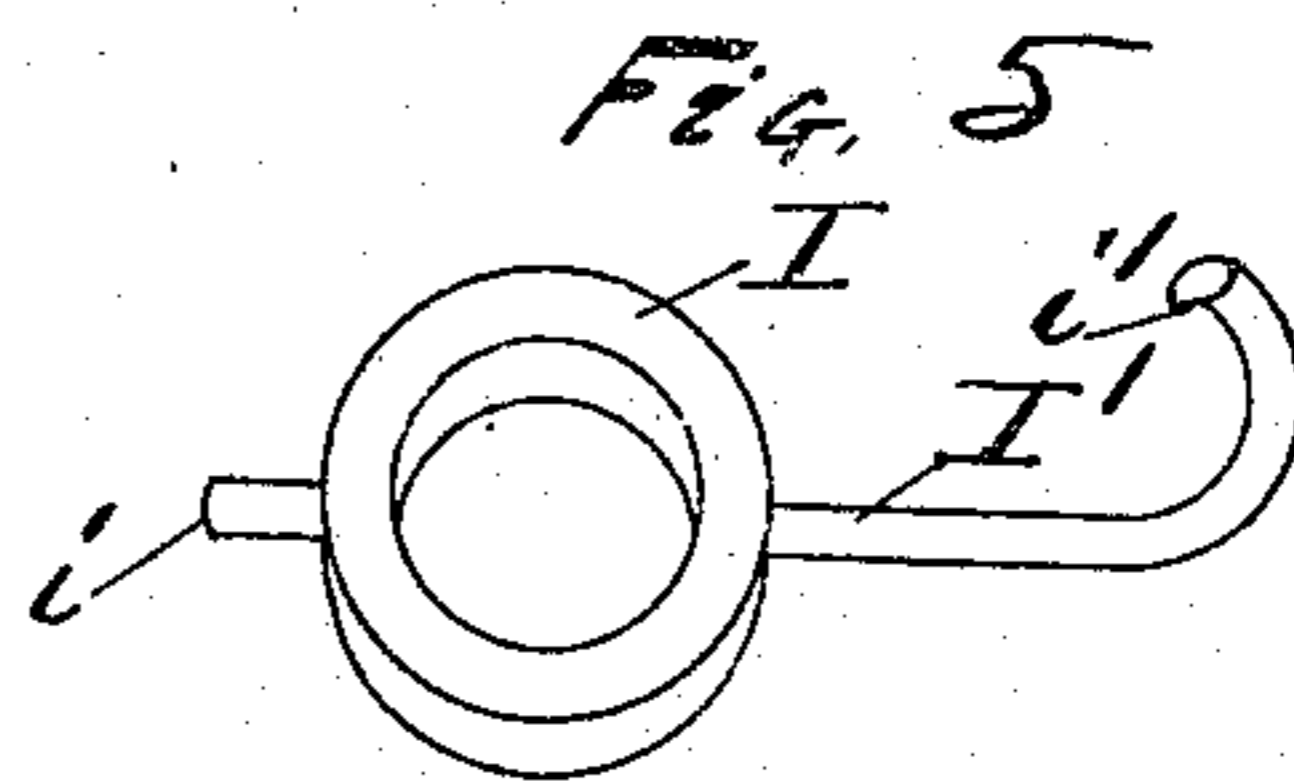


Fig. 5.

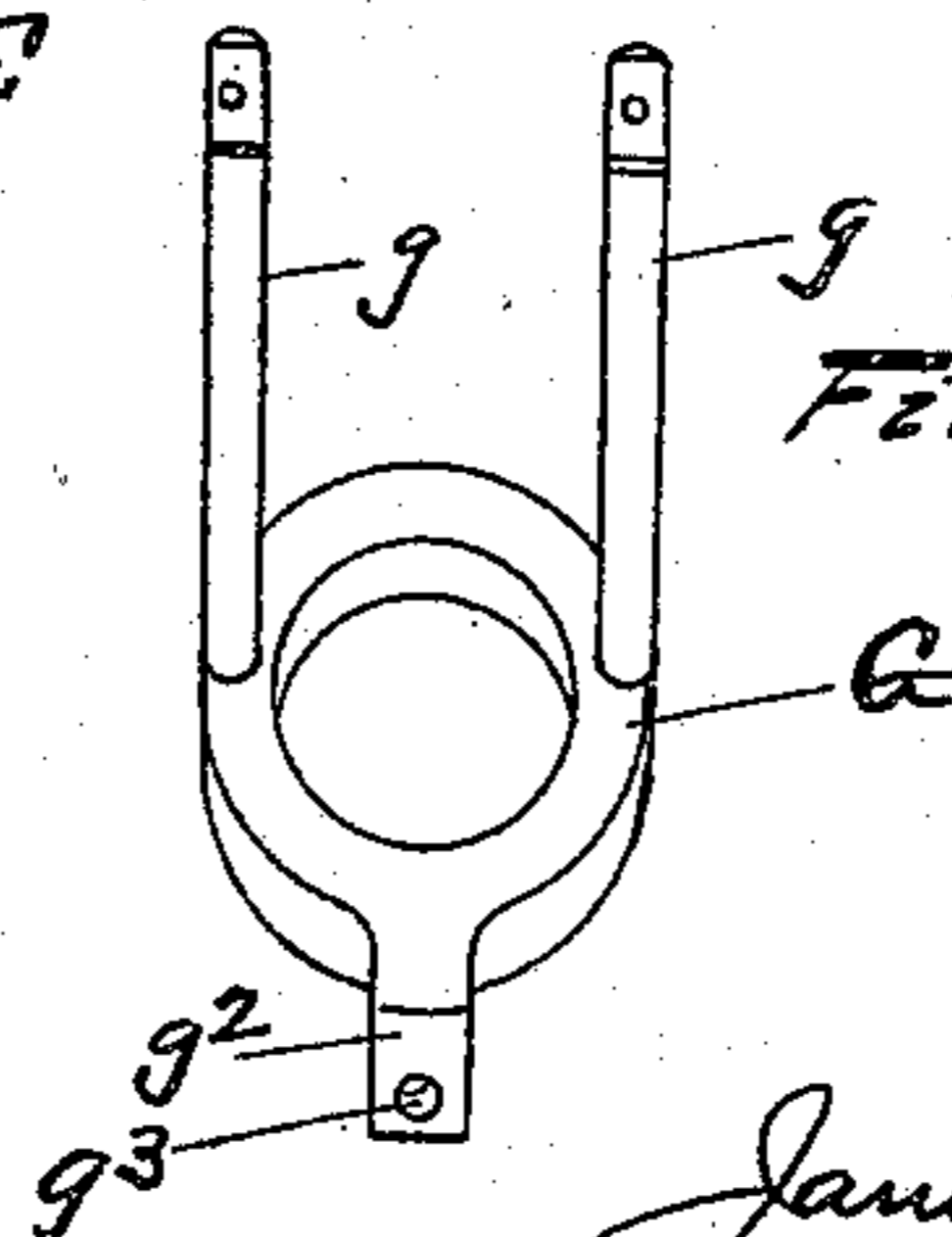


Fig. 6.

Witnesses
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UNITED STATES PATENT OFFICE.

JAMES F. McLAUGHLIN, OF ERIE, PENNSYLVANIA, ASSIGNOR OF ONE-THIRD TO CHARLES RAPPOLD AND ONE-THIRD TO GEORGE McLAUGHLIN.

MOP.

937,007.

Specification of Letters Patent.

Patented Oct. 12, 1909.

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To all whom it may concern:

Be it known that I, JAMES F. McLAUGHLIN, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented new and useful Improvements in Mops, of which the following is a specification.

This invention relates to mops, and consists in certain improvements in the construction thereof, as will be hereinafter fully described and pointed out in the claims.

The invention is illustrated in the accompanying drawings as follows:

Figure 1 shows a side elevation of the mop. Fig. 2 a front elevation. Fig. 3 a perspective view of the guide stop. Fig. 4, a side elevation of the mop, with the clamps open. Fig. 5, a perspective view of the slide of the brush clamp. Fig. 6, a perspective view of the slide and connecting pieces for carrying the head.

A marks the mop stick, B the head. The head has the usual groove *b*, and the mop rag J is clamped on this head by means of the bail C. The bail C has the rearwardly extending arms *c*, which are connected with the lever D. The lever D is connected by means of the pivot *e*, with a ring E. The ring E is fixed on the stick by means of the screw *e'*.

As clearly shown in Fig. 1, the lever is so formed that when it is pressed against the stick, the arms *c* of the bail are past the pivot *e*, so that pressure on the bail tends to lock the lever in place. A coil spring, F is arranged about the stick, and is tensioned against the ring E. It exerts pressure against the slide G, this slide being in the form of a ring surrounding the stick. The guide connections *g* extend forwardly from this ring and are secured to the head by means of rivets, *g' g'*. These guide connections *g*, are passed through slots *h* in the stop ring H and the stop ring H is secured to the end of the stick by means of the pin *h'*.

In the operation of the mop, the mop rag is placed between the bail and the head, and the lever pressed against the stick. This acting on the head moves the slide G against the spring F and compresses the same. By this means the mop is held between the bail and the head with spring pressure. The

slide G is subjected to the guiding effect of the stop H so as to hold the head in place. This is particularly effective as the head is moved back under the influence of the bail. The coil spring F permits of varying thicknesses of mop rag being inserted under the bail, and secured by the clamp.

It is desirable to secure to a mop of this character, not only a mop rag, but a brush. The projections *b' b'* are arranged on the head in position to engage the brush J'. The slide ring I is arranged around the stick between the spring F and the slide G. It has a projecting lug *i* which extends loosely through a perforation *g³* in a lug *g²* on the ring G. The effect of this mechanism is to form a hinge between the slide G and the ring I. The lug *i* being placed in the perforation *g³* and the two rings being placed on the stick, the parts are locked together. A clamp finger I' extends from the slide I and the clamp point *i''* is arranged on this finger in position to engage a brush. This finger is preferably of such a length as to position the brush at about an angle of 45 degrees to the axis of the stick.

With this construction, either the mop or the brush may be separately clamped and the wide latitude of sizes is made possible by the spring F, or if desired, both of these articles may be securely clamped at the same time, and the same clamping mechanism in each instance operate both clamps.

What I claim as new is:

1. In a mop, the combination of a mop stick; a lever having a pivoted fulcrum, connected with the stick; a mop head; a bail operating upon the head and connected with the lever; a slide carrying the head, the slide being free to move axially, relatively to the stick; a stop secured to the end of the stick to limit the movement of the slide; and a guide on said stop to guide and support the slide and head.

2. In a mop, the combination of a stick A; the lever D having a fulcrum connection with the stick; the head B; the bail operating upon the said head, and operated by the said lever; a stop H at the end of the stick; the slide ring G around the stick near its end; a connection between the slide ring and the head; a guide on the stop for the connection; and a

spring F arranged on the stick, and in position to be actuated by the movement of the slide G.

3. In a mop the combination of the stick A; the head B having lugs *b'* forming brush engaging devices thereon; the slide I arranged on the stick and having the clamp finger I' thereon; the spring F tensioned against the slide; and means acting with the spring for actuating the head and clamping finger relatively to each other to clamp a brush thereon.

4. In a mop, the combination of the stick A; a head B having lugs *b'* forming a brush engaging device thereon; the slide I arranged on the stick and having the clamp finger I' thereon; the spring F tensioned against the slide; and means for actuating the head and the finger relatively to each other to clamp the brush between them, said means comprising a bail C arranged to operate against the head, and the lever D operating upon the bail to set the clamp.

5. In a mop, the combination of a mop stick; a head on the stick; a bail operating on the head for securing a mop; a brush clamp; a coil spring encircling the stick for delivering pressure to the bail and clamp formed by said parts; and means for putting the spring under tension.

6. In a mop, the combination of a mop stick; a head mounted on the stick; a bail for securing a mop on the head; a brush clamp put under pressure by the action of the bail and adapted to secure a brush; a coil spring

encircling the stick for delivering pressure to the bail; and means for putting the spring under tension.

7. In a mop the combination of a mop stick A; the head B; the slide comprising the ring G and connecting pieces for connecting the ring with the head; the ring I surrounding the stick and having a connection with the ring G permitting relative movement between them, the ring I carrying a clamping finger; brush engaging devices on the head; the spring F surrounding the stick and tensioned against the ring I; the bail C; and means for actuating the parts for setting the bail and head together against the tension of the spring F.

8. In a mop the combination of a stick A; head B; the lever D having a pivot connection with the stick; the bail C engaging the head and connected with the lever; the slide comprising the ring G and connecting pieces *g* for carrying the head; the stop H, having means for guiding the slide; the ring I having hinge connection with the ring G and carrying the clamping finger I'; the lug *b'* on the head; and the spring F tensioned against the ring I.

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

JAMES F. McLAUGHLIN.

Witnesses:

H. C. LORD,

CHARLES RUPPERT.