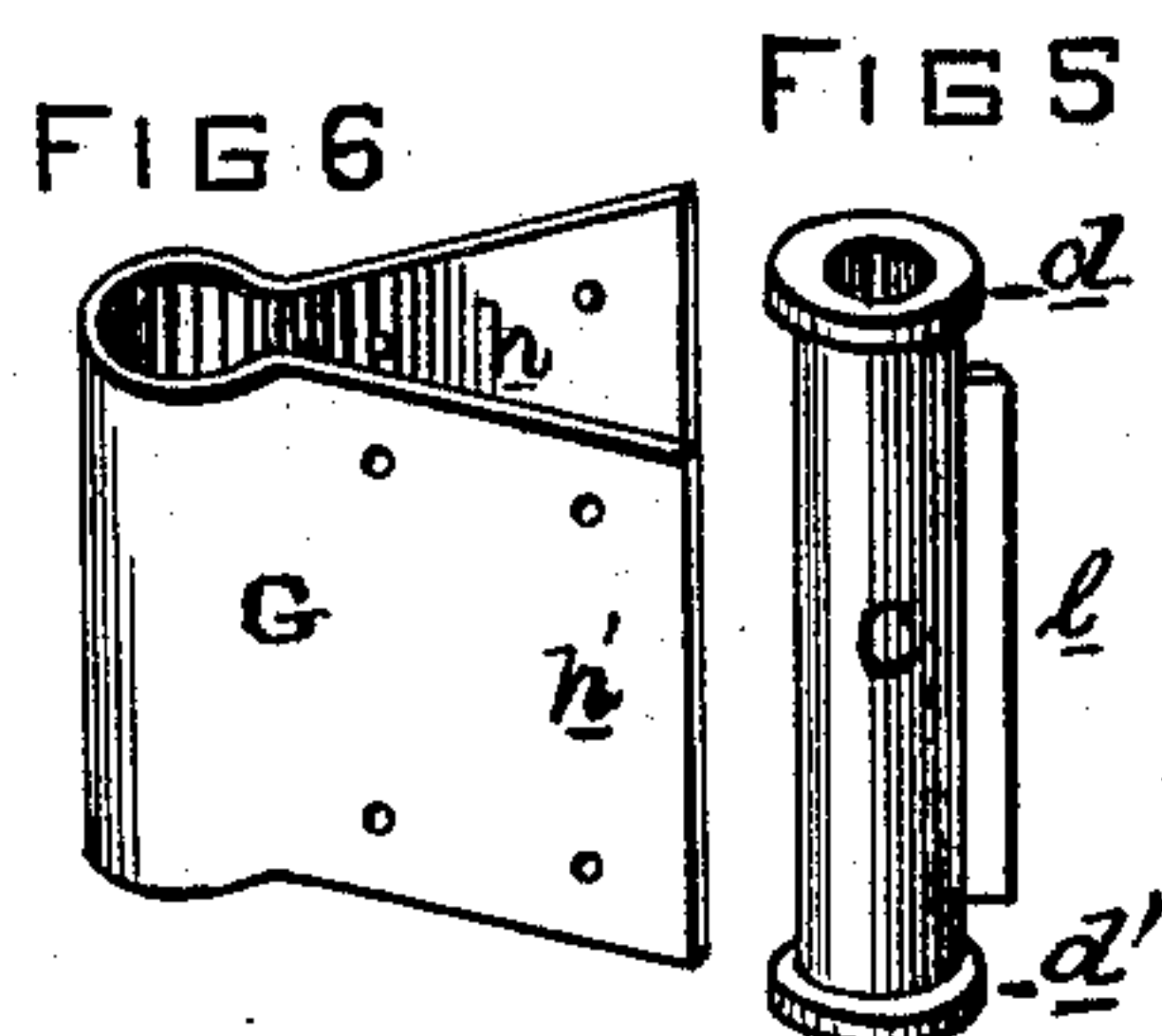
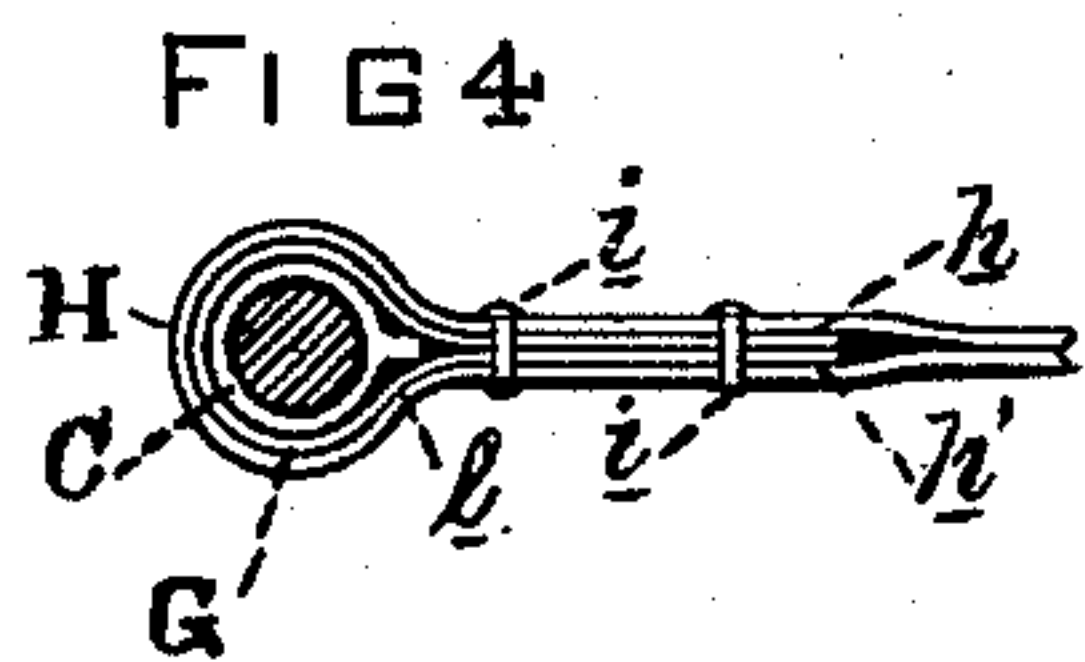
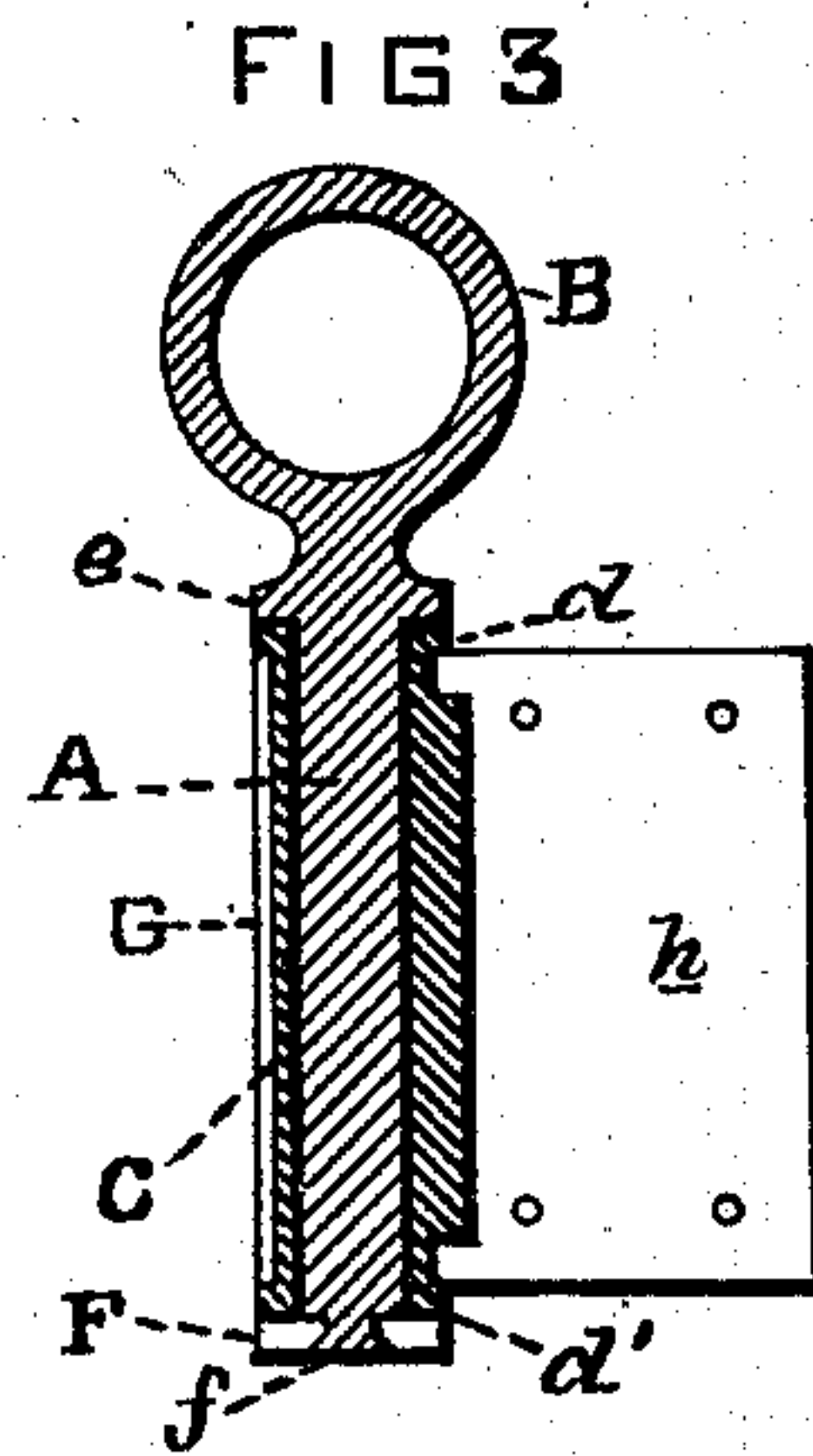
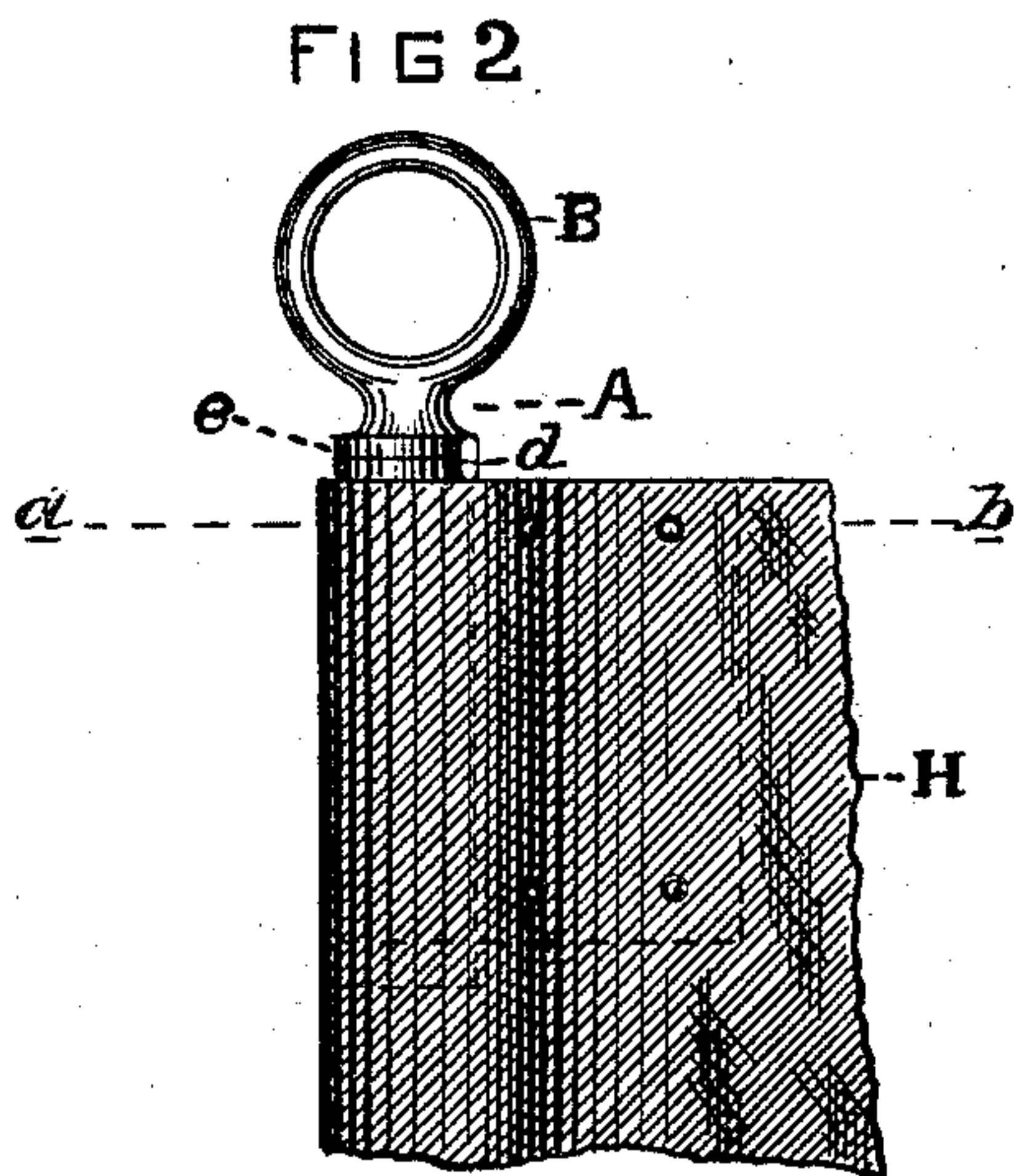
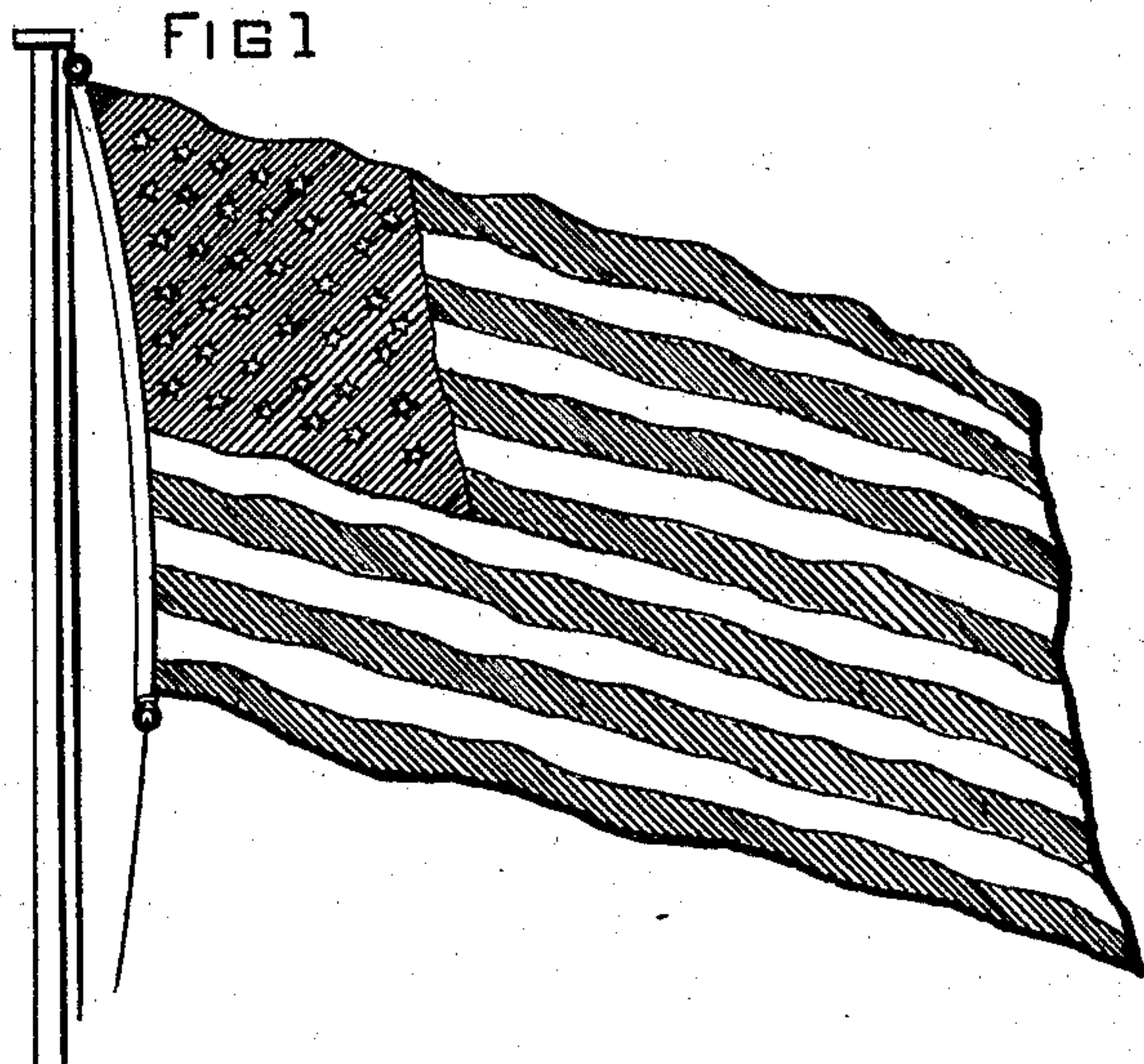


(No Model.)

H. B. THOMPSON.  
SWIVEL FOR FLAG HALYARDS.

No. 410,221.

Patented Sept. 3, 1889.



WITNESSES.  
*John Bellerjeau*  
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INVENTOR.  
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*His Attorney,*



# UNITED STATES PATENT OFFICE.

HENRY B. THOMPSON, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO  
ISAAC TOWNSEND, OF SAME PLACE.

## SWIVEL FOR FLAG-HALYARDS.

SPECIFICATION forming part of Letters Patent No. 410,221, dated September 3, 1889.

Application filed February 21, 1889. Serial No. 300,782. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY B. THOMPSON, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Improvement in Swivels for Flag-Halyards; and I do hereby declare the following to be a full, clear, and exact description of the invention, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

The object of my invention is to prevent twisting of the halyards, by means of which a flag is suspended from the summit of a flag-staff, mast-head, or gaff, which often occurs and to a certain extent interferes with the undulating motion of the flag, owing to a portion of the flag at the head becoming wound up or twisted, whereas in my invention the flag is permitted to wave gracefully, free from entanglement.

My invention, which is applicable to flags or banners of all descriptions, consists of a spindle or axis provided with an eye or opening for the halyards and inserted longitudinally within a barrel or tube, which is secured to the material of the flag by means of a sheet-metal clamp and rivets.

In the drawings, Figure 1 is a perspective view of my invention applied to a flag with the halyards attached thereto. Fig. 2 is a side elevation of my invention, showing it secured at the head of the flag. Fig. 3 is a vertical section of the swivel and clamp. Fig. 4 is a horizontal section on the line *a b* of Fig. 2. Fig. 5 is a perspective view of the barrel of the swivel. Fig. 6 is a perspective view of the sheet-metal clamp.

A, Figs. 2 and 3, is a spindle or axis of suitable length, with an eye or ring B, formed on one end for the purpose of fastening the halyards or rope thereto, and the opposite extremity inserted longitudinally, to rotate freely within the barrel or tube C. The barrel C is flanged at both ends, as shown at *d d'*, Figs. 3 and 5, and the spindle A is provided with a shoulder *e*, below the eye or ring B, which rests upon the flange *d*, and the opposite extremity (of the spindle) is formed with a small stem or pin *f*, which passes through a countersunk washer F, Fig.

3, and is riveted over flush with the outside of same, so as to retain the spindle properly within the barrel.

The clamp G, Fig. 6, consists of a rectangular sheet-metal plate bent of a tubular form in the center to embrace the barrel C between the shoulders formed by the flanges *d d'*, and in applying the same the projecting ends or wings *h h'* are drawn together and covered by the strip of canvas H, or other material, usually sewed to the head of the flag to reinforce the bunting or silk, the whole being bound together by means of rivets *i i*, which are passed through the several parts, as shown in Fig. 4. In order to prevent the clamp G turning and abrading on the barrel C, a rectangular lug *l* is formed on one side of the barrel, as shown in Figs. 3, 4, and 5, and projects a short distance between the wings *h h'* to form an effectual stop. Two swivels are applied at the head of the flag, one each at the upper and lower corners, with the eye or ring B of each spindle, to which the halyards are attached, projecting out, the barrels and clamps being completely covered, as previously stated, by the canvas or other material, so as to be invisible. The spindle A of each clamp will turn freely within its barrel, and as the sheet-metal clamp will lend additional strength to the material of the flag all wear at the corners will be prevented, while at the same time the flag is allowed to fly out freely.

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

1. A swivel for flag-halyards, consisting of a spindle or axis provided with an eye or opening for the rope and inserted to rotate within a barrel or tube attached to the material of the flag, substantially as and for the purpose specified.

2. In a swivel for flag-halyards, the spindle A, provided with an eye or ring B, shoulder *e*, stem or pin *f*, and washer F, in combination with the barrel C, flanges *d d'*, lug *l*, clamp G, and rivets *i i*, substantially as shown and described.

HENRY B. THOMPSON.

Witnesses:

ISAAC TOWNSEND,  
W. J. CASEY.