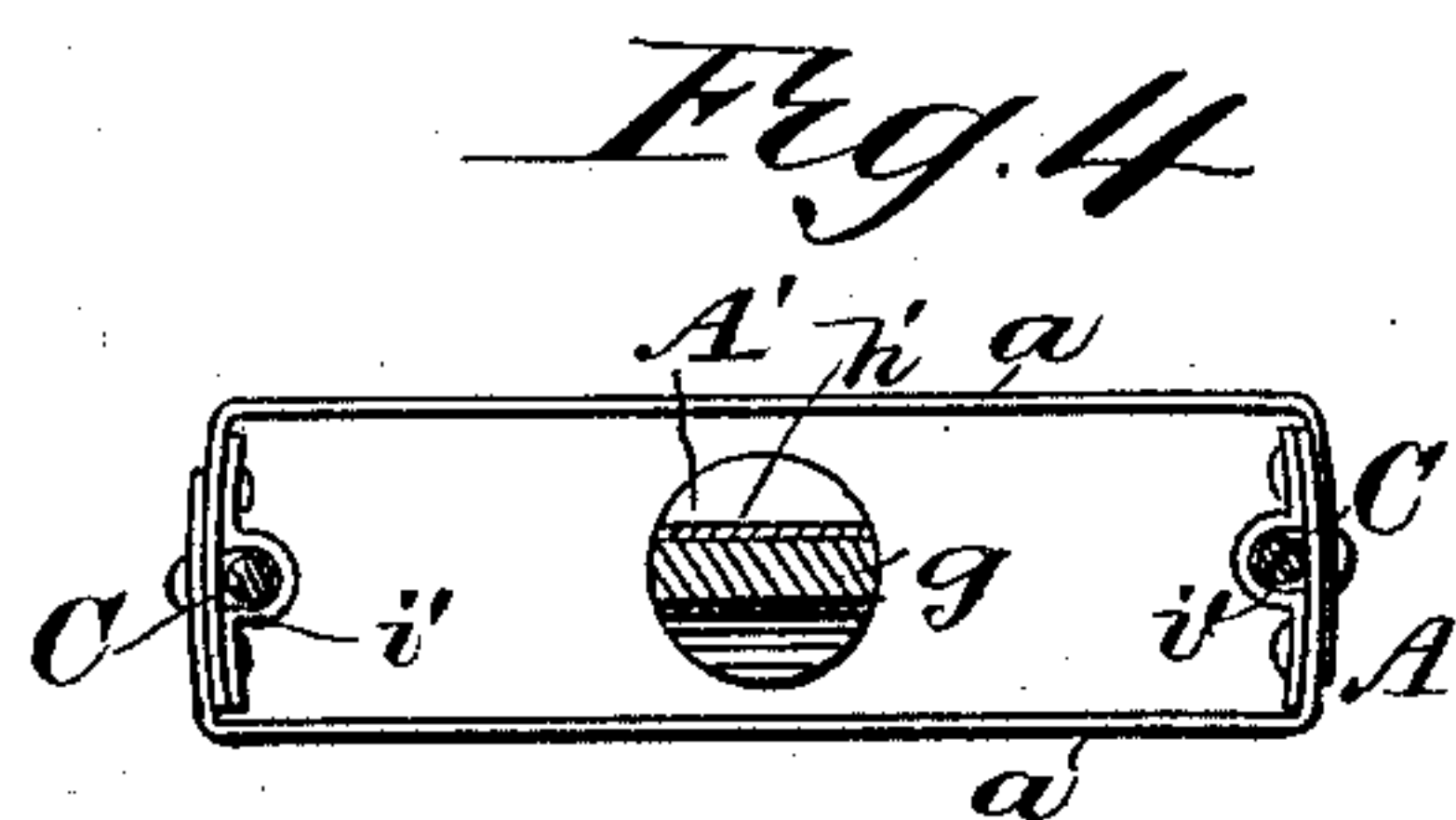
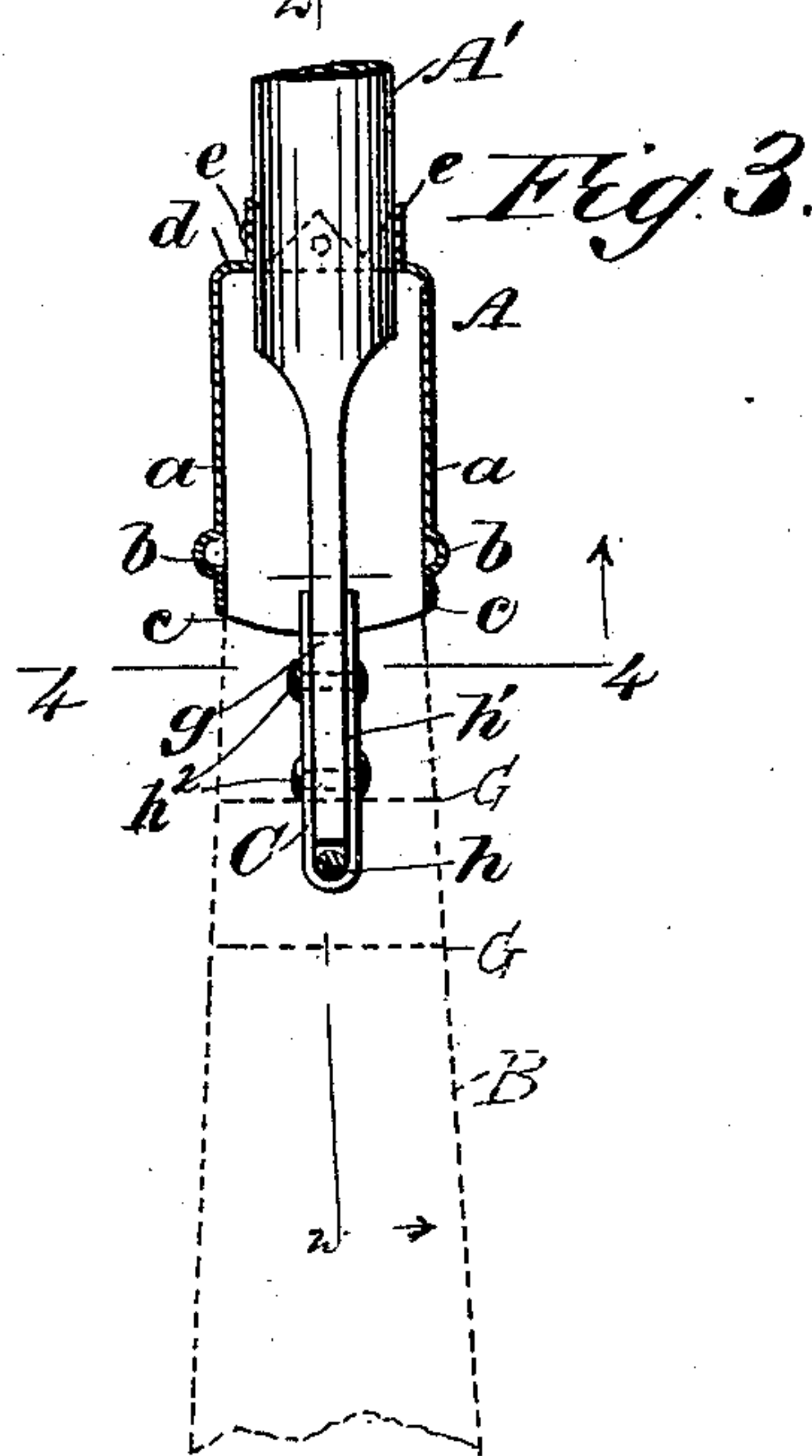
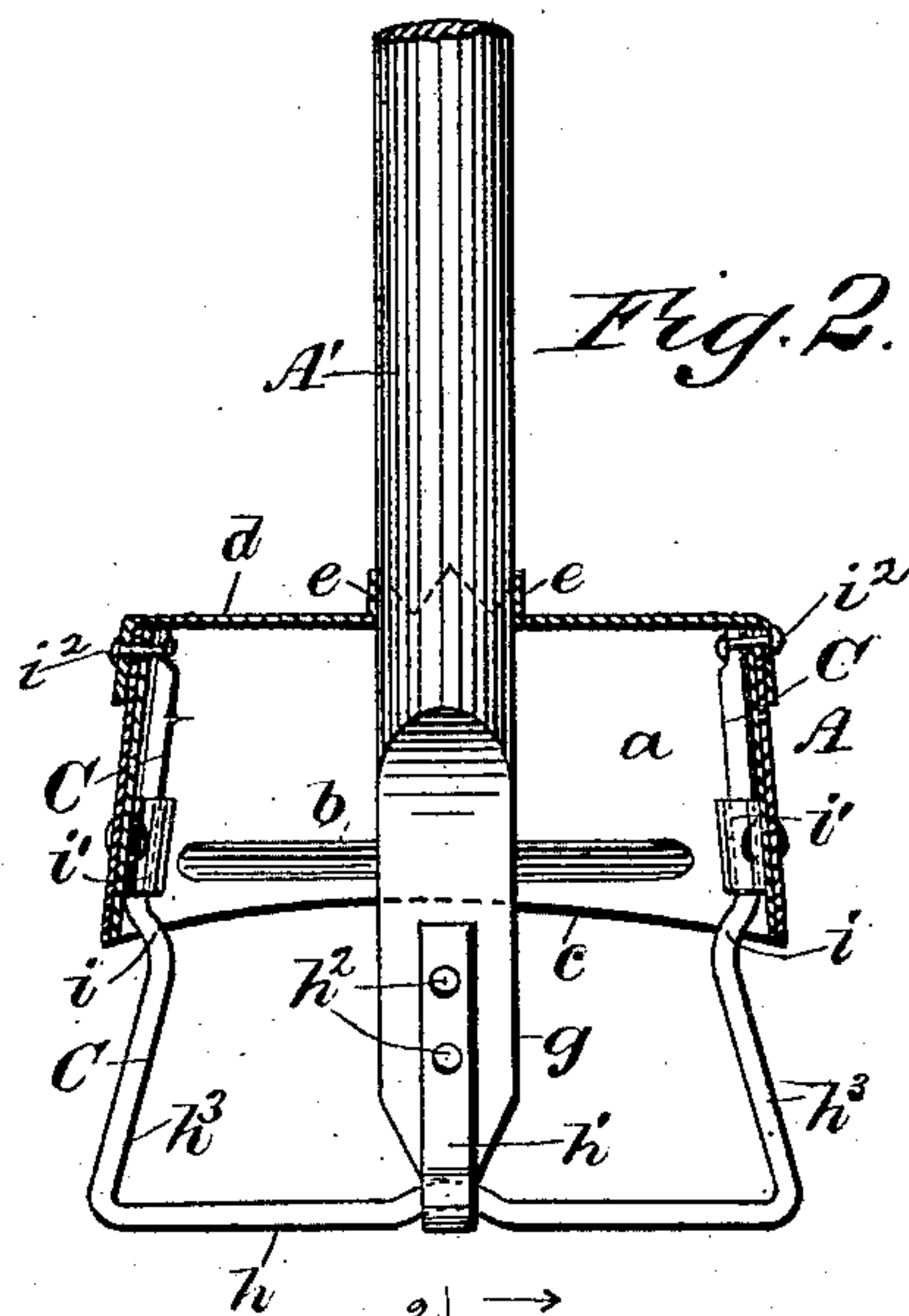
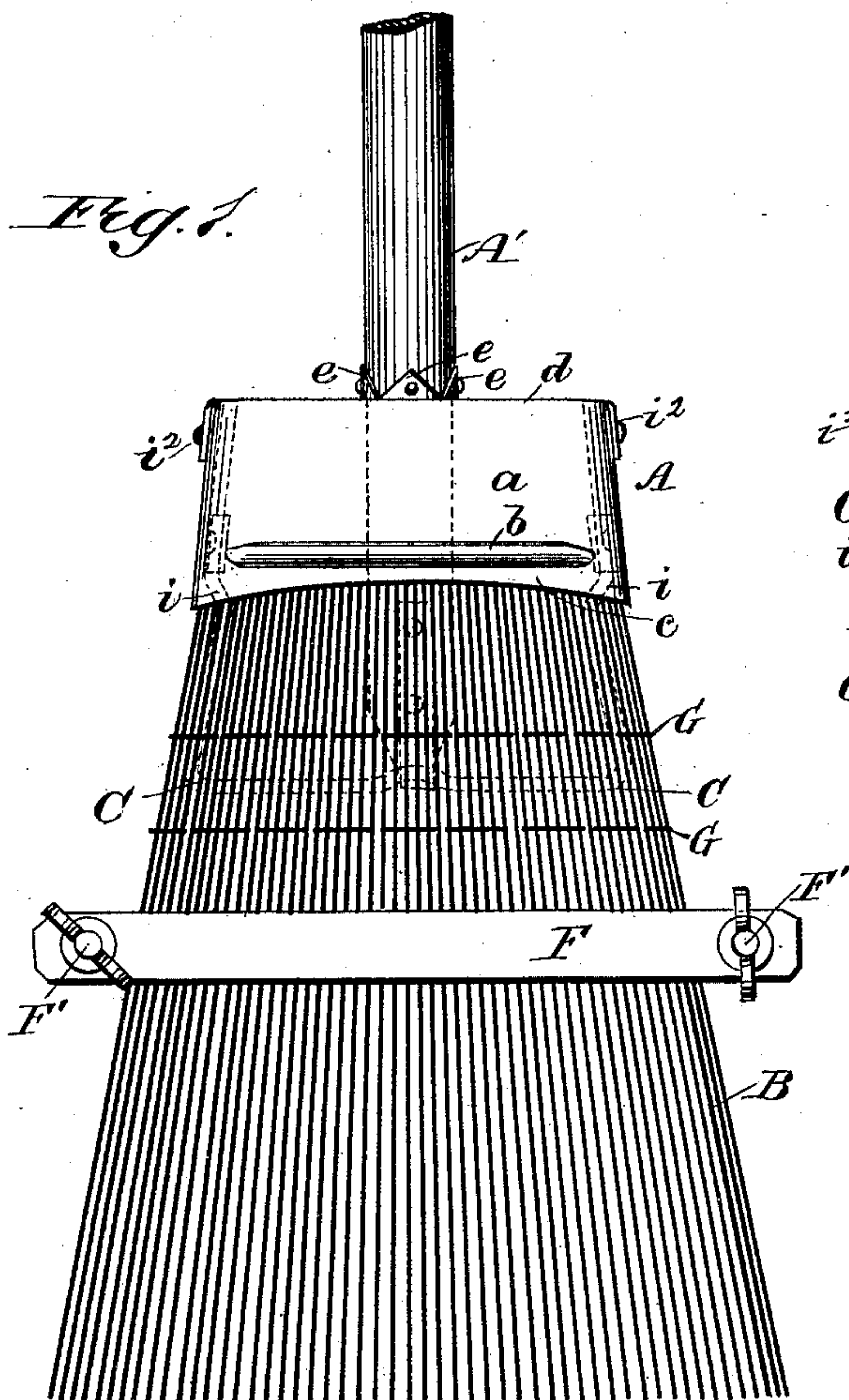


(No Model.)

J. O. KING.  
BROOM HEAD.

No. 472,365.

Patented Apr. 5, 1892.



WITNESSES:  
*F. M. Arde,*  
*C. Sedgewick*

INVENTOR  
*J. O. King*  
BY *Munn & Co*  
ATTORNEYS,



# UNITED STATES PATENT OFFICE.

JOHN O. KING, OF ALTAMONT, KANSAS.

## BROOM-HEAD.

SPECIFICATION forming part of Letters Patent No. 472,365, dated April 5, 1892.

Application filed July 15, 1891. Serial No. 399,629. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN O. KING, of Altamont, in the county of Labette and State of Kansas, have invented a new and Improved Broom-Head, of which the following is a full, clear, and exact description.

This invention relates to an improved device for receiving broom-corn splints and retaining the handle and splints in firm connection, the object being to provide a practical, cheap, and reliable device of the character mentioned, which will, in conjunction with the ordinary sewing, form a neat, shapely, durable, and serviceable broom.

To these ends my invention consists in the construction and combination of parts, as is hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of a complete broom-head, an inserted handle partly broken away, and a splint-clamp in place to retain the splints in flattened condition ready for the sewing of the broom. Fig. 2 is a longitudinal section of the complete broom-head, taken on the line 2 2 in Fig. 3, and an attached handle partly broken away. Fig. 3 is a longitudinal section of the head shown in Fig. 2, taken at right angles to the line of section in said figure; and Fig. 4 is a transverse section on the line 4 4 in Fig. 3.

The main portion A of the broom-head consists of a sheet-metal box flattened on the sides and of a suitable width to receive the broom-corn B or other splints of which the broom is composed.

The head-box A is flattened sidewise, having parallel walls *a*, that are sufficiently separated on their interior surface to retain the splints B in good shape for the formation of a neat broom.

The side walls *a* of the head-box A are fluted oppositely, as at *b*, which affords strength to the comparatively light sheet-metal box. Preferably the lower edges *c* of the side walls *a* are curved, as shown in Figs. 1 and 2, giving them a neat appearance, and also to allow the corn splints to swell outwardly or on each side toward the center of the head when

sewed, thereby binding them and preventing their looseness in the head-box.

The top wall *d* of the head-box A is secured thereon firmly by any preferred means, and at its center an aperture of proper diameter is formed for the reception of the handle A', as represented. The material of the top wall *d* is cut and bent outwardly, so as to provide a series of border ears *e*, that are angular in outline, thereby economizing material in their formation, their use being to afford means for the secure attachment of the top wall of the broom-head upon the handle by insertion of tacks through the ears into the body of the handle, as shown in Fig. 1.

The part of the broom-handle A' that extends through the head-box A should be of such proportionate length as will allow it to be secured at its terminal end *g* to a stay-loop C, the latter named being preferably bent from a single piece of wire rod, as indicated in Fig. 2, there being a bar *h* formed from a central part of the material of the loop, which is slightly bowed at its longitudinal center for the reception of a clip-band *h'*, which clasps the flattened sides of the handle end *g* and is thereto attached by bolts or rivets *h''*.

The length of the loop-bar *h* is about equal to the major width of the head-box A and has two equal limbs *h'*, bent in the same plane, but inclined toward each other, so as to decrease the width between the portions of these limbs that are adjacent to the lower edges of the sides and end walls of the head-box A, outward and upward bends being produced at these points *i*, so as to project the parts of the limbs which enter the head-box against the inner surface of the end walls of said box, to which they are clipped, as at *i'*, their upper ends being riveted, as at *i''*, in perforations in the end walls, whereby the stay-loop C is securely fastened in the head-box and serves to retain the handle A' firmly in place, stiffening the head-box end walls in an obvious manner.

The reduction of material so as to flatten the end portion *g* of the handle A' permits the broom-corn splints B to be inserted in the head-box A in proper quantity for the formation of a serviceable broom, and when these are entered fully they are secured in the



head-box by first temporarily clamping them with the parallel clamping-strips and cross-bolts F F', so as to flatten the mass near to the loop-bar *h*, and then completing the construction by sewing two or more rows of stitching G across the splints, one row on each side or above and below the loop-bar *h*, which will bind the splints against said bar, so as to prevent them from working out of place and stiffening them edgewise and laterally, serving to retain the broom in proper form until the splints are worn away so as to become useless for their service, it being understood that the temporary clamp is removed after the sewing of the broom is completed. New splints may be readily substituted whenever necessity requires.

It will be observed that the inclination of the limbs of the stay-loop C toward each other will afford room for the introduction of splints outside of the limbs, so as to render the broom complete on the edges near the end walls of the box A, as well as on the sides of the same.

Having thus described my invention, what

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

1. The combination, with a head-box and a handle flattened on the end portion that penetrates the head-box, of a stay-loop secured by its ends to the end walls of the head-box and connected at its center to the flat end portion of the handle, substantially as described.

2. The combination, with a head-box having flat parallel side walls and a top wall that has a serrated collar formed integrally at its center, and a handle having a flattened end portion inserted in the head-box and attached to the serrated collar, of a stay-loop affixed by its ends to the end walls of the head-box and near its center to the end of the handle by a clip-band, and broom-splints inserted in the head-box and therein retained by rows of stitching, substantially as described.

JOHN O. KING.

Witnesses:

HARRY MILLS,

CHAS. GARST.