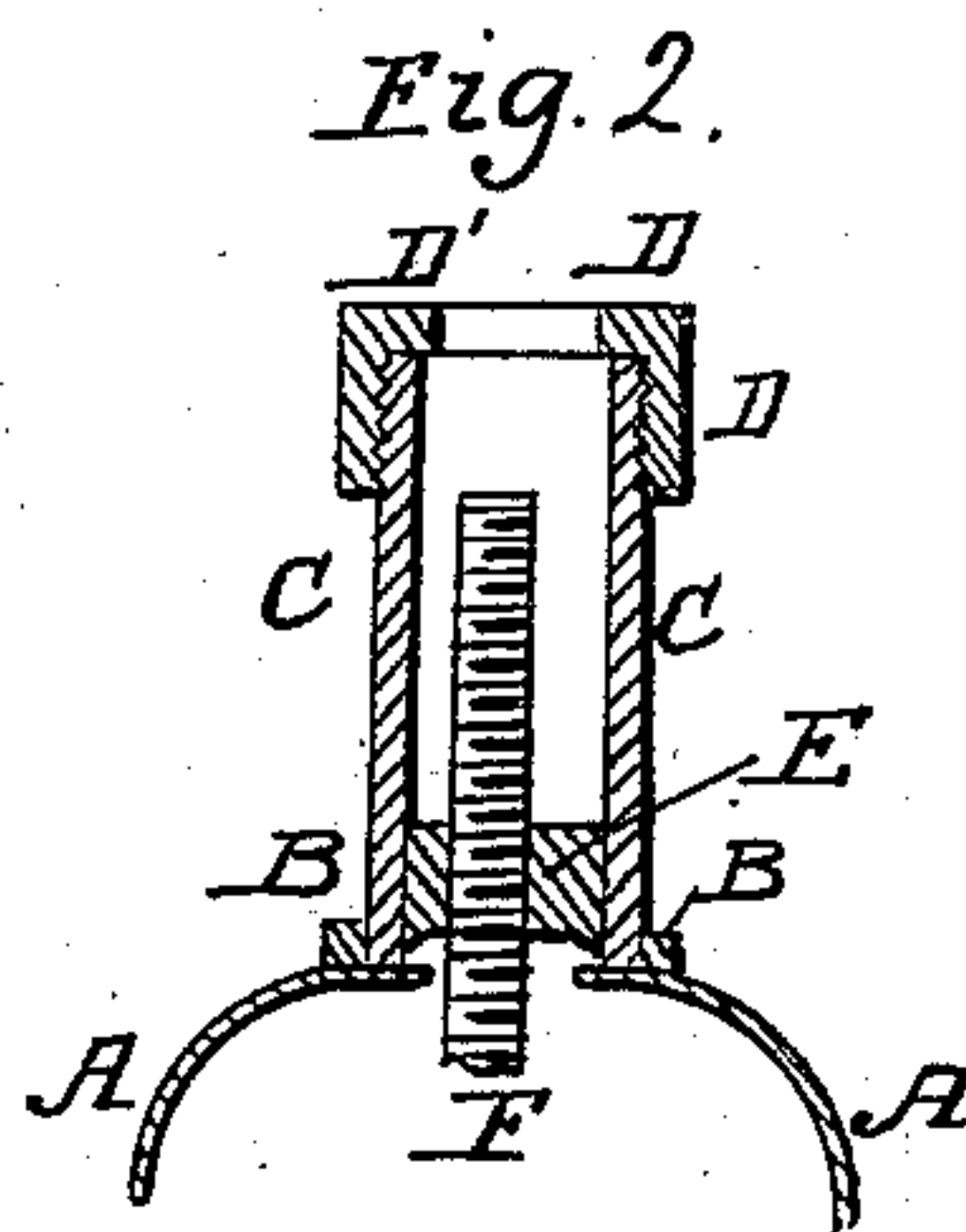
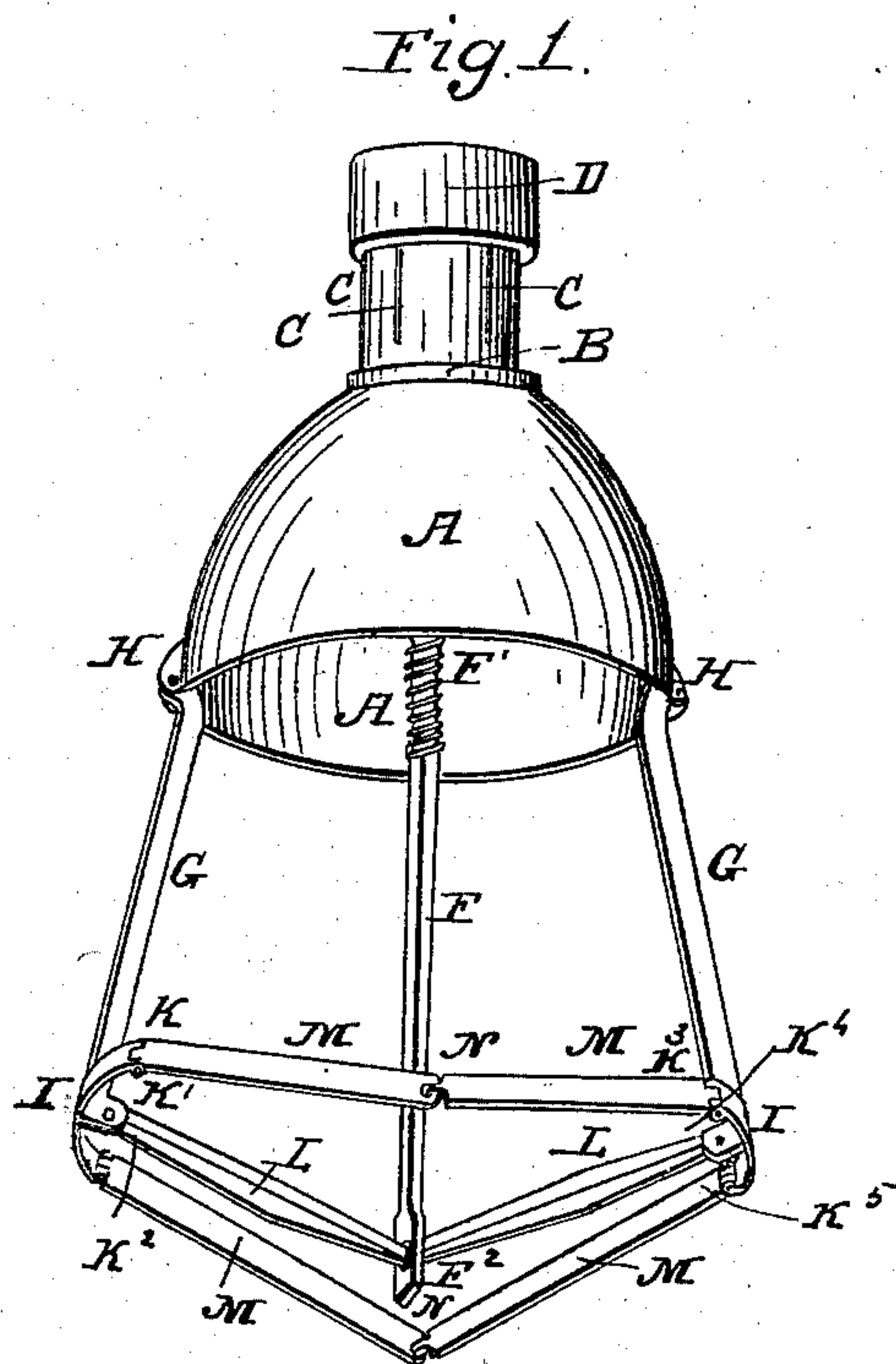


KEENE & SNEDIKER.

Broom Head.

No. 56,953.

Patented Aug. 7, 1866.



Witnesses:  
Daniel Waterman  
John A. Crocker

Inventors:  
J. H. Keene  
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# UNITED STATES PATENT OFFICE.

J. W. KEENE AND W. E. SNEDIKER, OF UTICA, NEW YORK.

## IMPROVED BROOM-HEAD.

Specification forming part of Letters Patent No. 56,953, dated August 7, 1866.

*To all whom it may concern:*

Be it known that we, JOHN W. KEENE and WILLIAM E. SNEDIKER, of Utica, Oneida county, New York, have invented a new and useful Improvement in Metallic Heads for Brooms; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of the improvement, and Fig. 2 is a sectional view of the upper part thereof.

The nature of our invention consists, first, in the mode of attaching the broom-handle to the head, and, second, the mode of holding the material of which the broom is made in place.

A is a light hollow head for receiving and securing the ends of the broom corn or brush. On its upper end or top is a socket, B, in which is fitted a ferrule, C. At the lower end thereof is a nut, E, for raising and lowering the projection-rod F by means of the screw F' on its upper end, and which screw and nut also serve to hold the ferrule C in place. The ferrule C, with its cap D, serves to hold the handle. The projection-rod F extends through the ferrule, nut, head, and to some distance below, where it terminates in a head, F<sup>2</sup>.

On each side of the head A is an arm, G G, which are attached to the head by hinges or joints H H. On the other end of each arm G G is a cross-head, I I, each having three joints, K K' K<sup>2</sup> K<sup>3</sup> K<sup>4</sup> K<sup>5</sup>. From the center joints, K' and K<sup>4</sup>, extend the links L L, which are jointed to the head F<sup>2</sup> of the projection-rod. From the other four joints, K K<sup>2</sup> K<sup>3</sup> K<sup>5</sup>, extend four straps, M M M M, which are joined in pairs by a hook or otherwise at their inner ends, N N.

The ferrule C may be slitted vertically into several parts, C', and the cap D, screwing on to it with a tapering screw, will draw the parts of the ferrule together and accommodate it to the shrinking of the wooden handle; or, in-

stead of slitting the ferrule, the cap D may have a rim on its inner edge, D', which, as it is screwed down on the ferrule, will press upon a shoulder to be left on the handle; or both of these means may be used for tightening the handle. The upper end of the screw F' may also be screwed into the handle to render it firmer.

The operation of filling the head is as follows: The projection-rod is extended downward as far as necessary by reversing the nut E, which, operating on the links L L, draws the arms G G together, and which necessarily causes the straps M M M M to open. The broom-corn is then properly placed between the straps, with its upper ends in the head A, and by screwing up the nut E the projection-rod is drawn in, which extends the arms G G, and consequently draws together the straps M M M M until they closely bind the brush.

Instead of the straps M M M M, a cord or wire may be used. When the straps are used they may have their inner side made with an obtuse angle at the center or at each side, so as the better to hold the brush.

The whole may be made of malleable iron or other suitable metal.

We claim—

1. The extension-rod F, in combination with the links L L and the straps M M M M, or their equivalents, constructed and operating substantially as described.

2. The head A, in combination with the arms G G, or their equivalents, constructed and operating substantially as described.

3. The slotted ferrule C, the nut E, and the cap D, in combination, substantially as described, and for the uses and purposes mentioned.

J. W. KEENE.  
W. E. SNEDIKER.

Witnesses:

H. D. ALEXANDER,  
JOHN G. CROCKER.