

(No Model.)

H. W. JUDEVINE.
BROOM HEAD.

No. 444,886.

Patented Jan. 20, 1891.

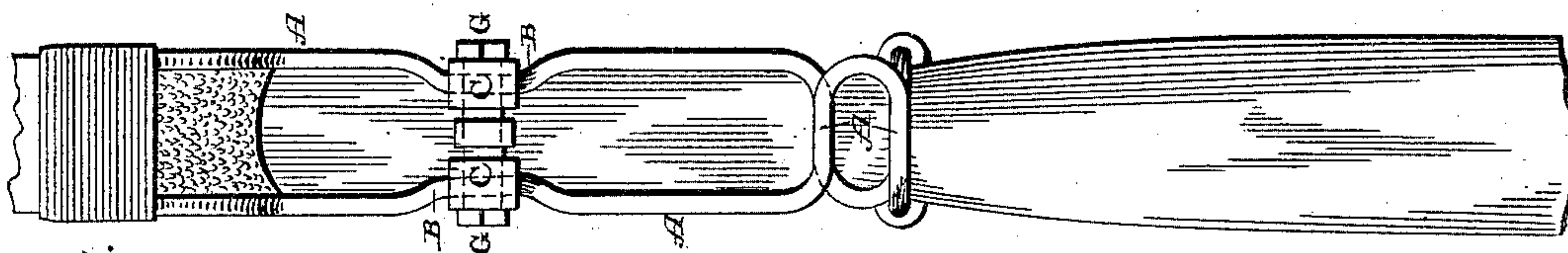


Fig. 4.

Fig. 5.

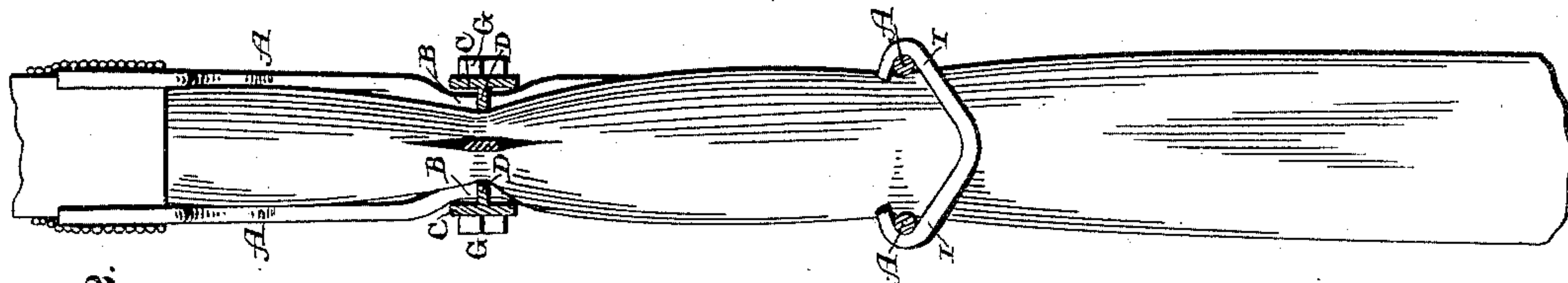


Fig. 2.

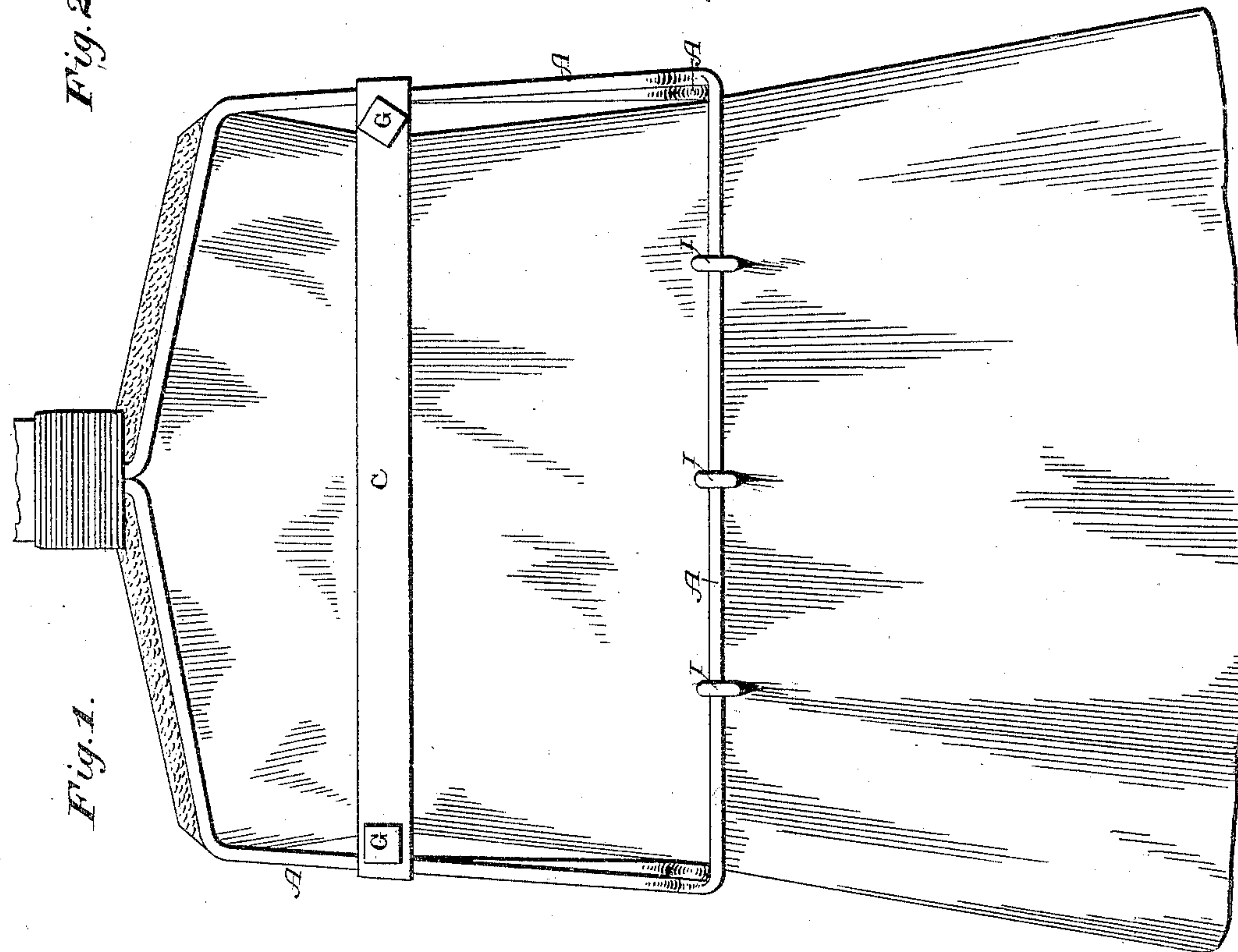


Fig. 1.

Witnesses:

E. P. Ellis,
B. Brockert

Inventor:

H. W. Judvine,
per
Lehmann & Pattison,
attys

UNITED STATES PATENT OFFICE.

HENRY W. JUDEVINE, OF EDGAR SPRINGS, MISSOURI.

BROOM-HEAD.

SPECIFICATION forming part of Letters Patent No. 444,886, dated January 20, 1891.

Application filed June 26, 1890. Serial No. 356,836. (No model.)

To all whom it may concern:

Be it known that I, HENRY W. JUDEVINE, of Edgar Springs, in the county of Phelps and State of Missouri, have invented certain new and useful Improvements in Broom-Heads; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in broom-heads; and it consists in the construction and arrangement of parts, which will be fully described and claimed hereinafter.

The object of my invention is to provide a broom-head of the particular construction hereinafter shown and described.

Figure 1 is a side elevation of a broom-head which embodies my invention. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is a vertical longitudinal section of one of the clamping-bolts. Fig. 4 is an edge view of my broom-head.

A represents the two clamping-wires, which are bent as shown, and which are applied to opposite sides of the upper end of the straw and secured to the broom-handle, as shown. Each of these clamps is provided with a bend or jog B, in which the end of a clamping-plate C catches, and this bend is of such a shape that the end of the clamping-plate cannot become displaced after the clamping-bolts have been once tightened. Upon the inner side of each one of these plates C is a flange or rib D of sufficient width to bend the straws at this point, and thus hold them more securely than can possibly be done if a flat plate alone is used. The ends of these plates are turned at right angles, so as to catch over the outer sides of the clamps A, and thus prevent any tendency of the parts to expand when the clamping-bolts G are tightened up. These bolts G pass through the ends of the plate C inside of the clamps A, but outside of the straw; and by means of these bolts the two plates and the clamps A are forced tightly together, so as to clamp the straw so securely at its upper end that it is impossible for the straw to become loosened.

In order to dispense with the usual nuts and the projecting points of the bolts beyond the nuts, I do away with the ordinary clamping-bolts and substitute for them the bolts G, which consist of the tubular sockets and the screws which fit snugly therein. The screws and the tubular sockets are both provided with angular heads, so as to give a more finished appearance upon each side of the head than can be done where the ordinary nut and bolt are used. These bolts G are in proportion to the thickness of the broom-head, and hence are especially adapted for clamping the plates and the two clamps A tightly against the straw. Placed in the center of the head is a flat plate of suitable width and thickness, and which has perforations through both of its ends, and through these perforated ends the clamping-bolts G pass. These plates serve to hold the straw at their centers and just opposite the plate C, which forces the straws tightly against the plate. By this construction the straws at the center of the head are held as securely in position as those with which the clamping-plate C come in contact. The lower end of each of the clamps A is shaped as shown, and these lower portions of the clamps are held tightly against the outer side of the straw by means of the bent wires I, and thus dispense with all necessity for sewing, which has heretofore been resorted to for the purpose of holding these parts of the clamps in position. When the straw becomes worn out, it is only necessary to remove these bent wires and the clamping-bolts, when the old straw can be entirely removed and new straw supplied. After the parts have been clamped together, it is only necessary to trim the upper projecting ends of the straw, so as to give the broom a finished appearance. As will be seen, the parts of this head are few, cheap, and simple, and require no especial skill to apply them to the straw for the purpose of forming a broom.

Having thus described my invention, I claim—

1. In a broom-head, the combination, with wire clamps which are applied to opposite sides of the straw and having vertical portions outside of the straw, which are provided with lateral bends at their upper ends, of hori-

zontal clamping-plates which extend across the straw and have their end engage the said bends, and clamping-bolts which pass through the plates and secure the parts together, substantially as shown.

2. In a broom-head, the combination of the two wire clamps applied to the sides of the straw, having bends at their upper ends, of clamping-plates having perforated ends which rest in the bends, and a plate which passes through the straw between the plates, having perforations in its ends which register with the perforations in the plates, and clamping-bolts which pass through the said perforations for securing the parts together, substantially as described.

3. The combination of the two wire clamps provided with bends near their upper ends, the plates C, having their ends turned at right angles, so as to catch outside of the clamps, the clamping-bolts, and the plate

which is passed through the center of the head, substantially as specified.

4. A broom-head consisting of the combination of the two wire clamps, which are fastened at their upper ends to the broom-handle and provided with bends at their upper ends, the clamping-plates provided with flanges upon their inner sides and having their ends turned at right angles so as to catch outside of the wire clamps, the clamping-bolts, the plate which passes through the central portion of the head, and the bent wires which connect the lower ends of the clamps together, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY W. JUDEVINE.

Witnesses:

O. P. MARGEDANT,
E. C. CURTIS.