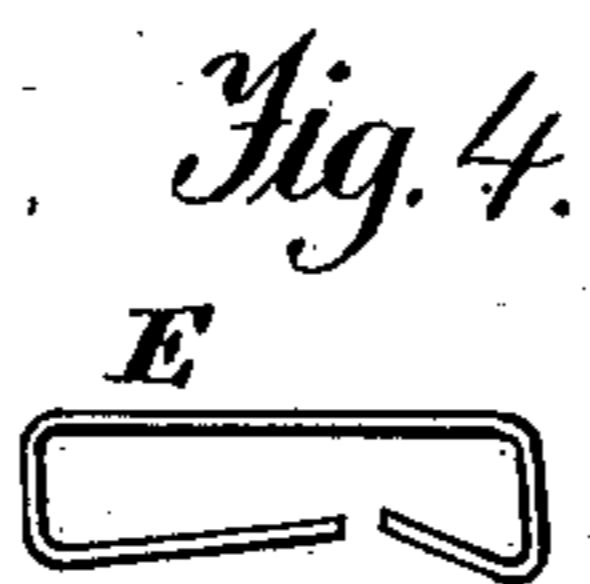
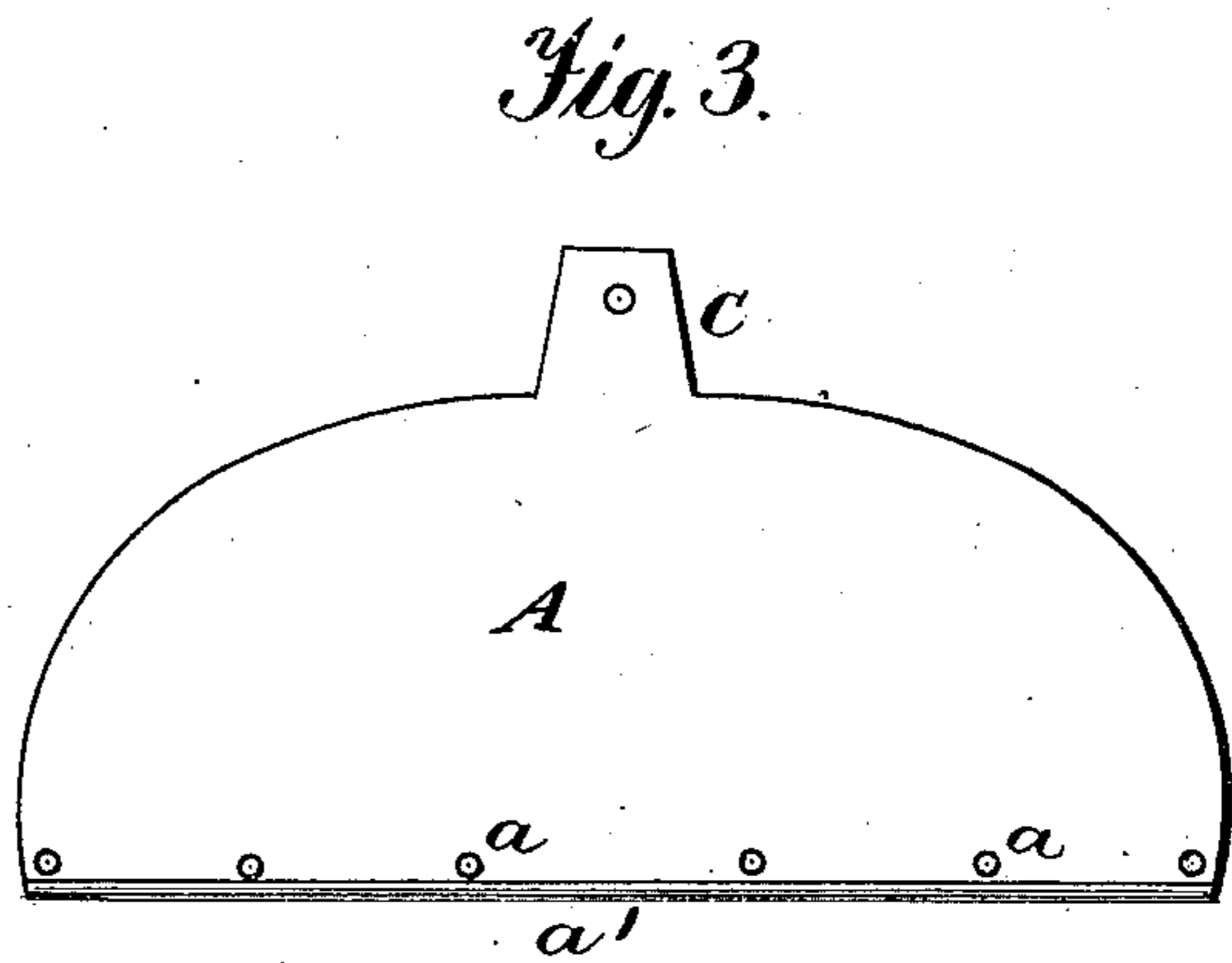
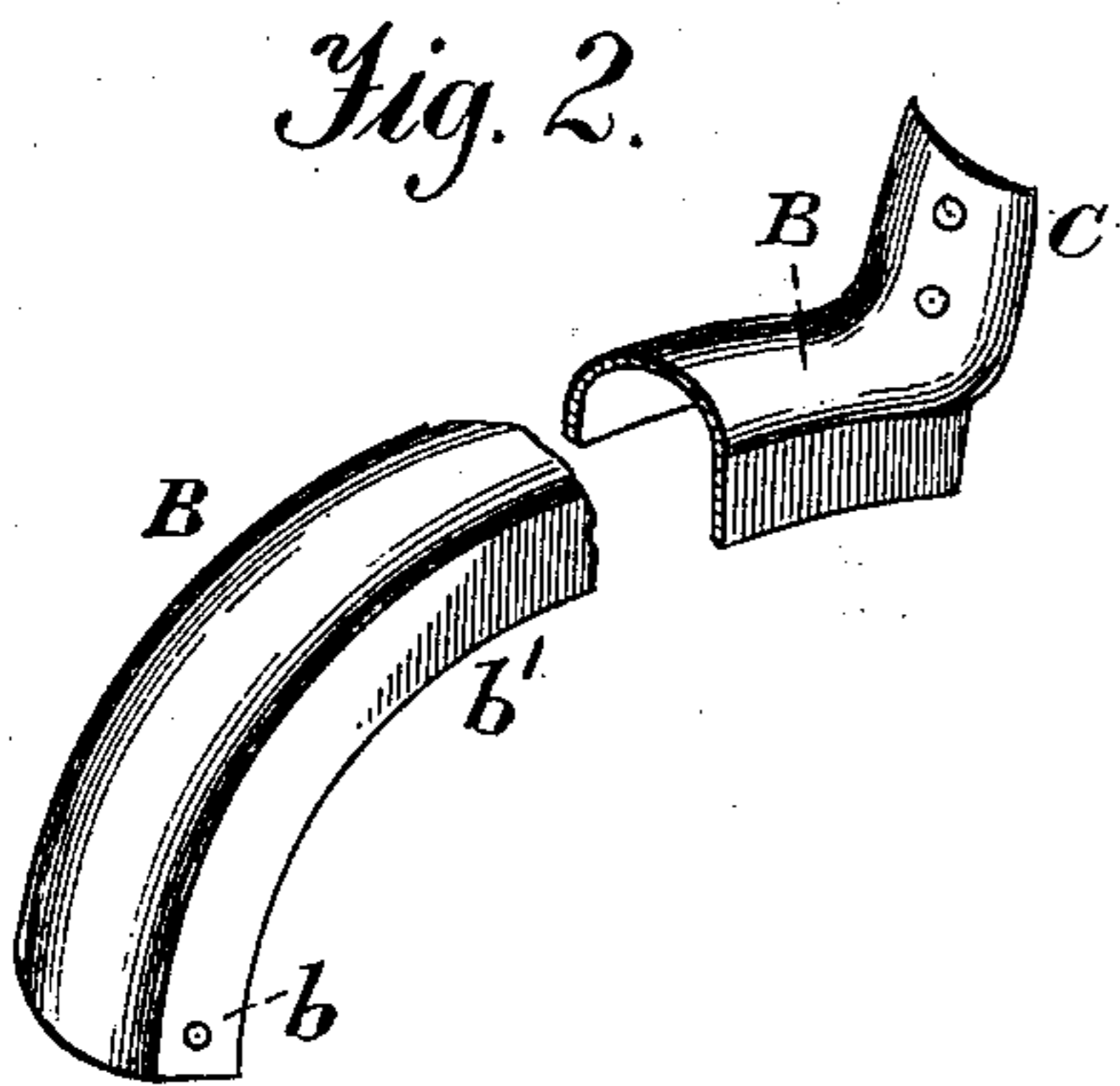
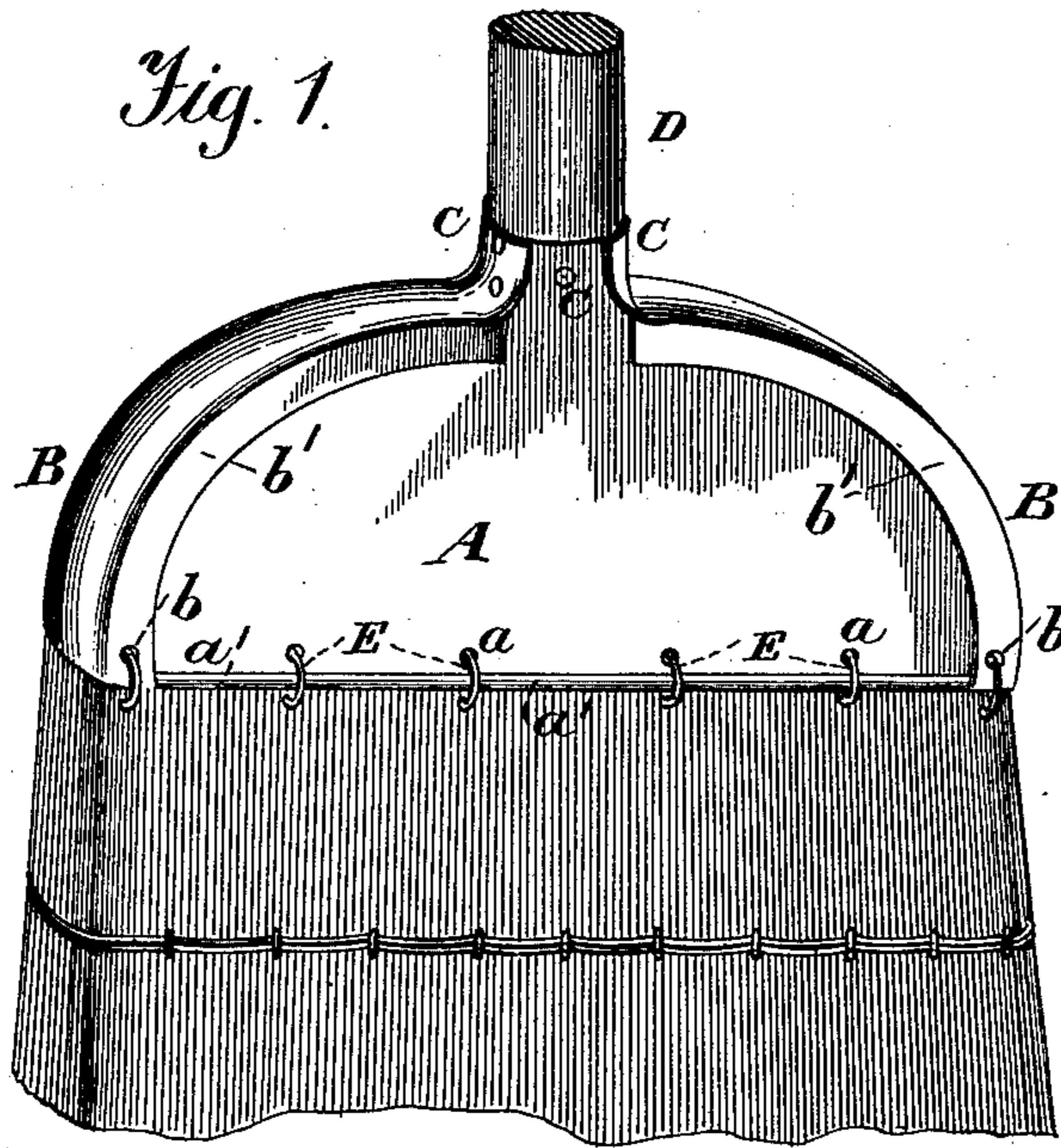


(No Model.)

M. S. CLYDE & W. WELSH.
BROOM HEAD.

No. 428,665.

Patented May 27, 1890.



Witnesses.
A. Rupert,
H. A. Daniels

Inventors.
Moses S. Clyde
Wm. Welsh
Per
Thomas Simpson

UNITED STATES PATENT OFFICE.

MOSES S. CLYDE AND WILLIAM WELSH, OF MOUNT OLIVE, ILLINOIS.

BROOM-HEAD.

SPECIFICATION forming part of Letters Patent No. 428,665, dated May 27, 1890.

Application filed September 28, 1889. Serial No. 325,342. (No model.)

To all whom it may concern:

Be it known that we, MOSES S. CLYDE and WILLIAM WELSH, citizens of the United States, residing at Mount Olive, in the county of Macoupin and State of Illinois, have invented certain new and useful Improvements in Broom-Heads; and we do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The invention relates to the heads which are employed to connect the handle and straw of brooms and to clamp the straw firmly at the upper end.

The invention will first be described in connection with the drawings, and then pointed out in the claims.

Figure 1 of the drawings is an elevation in perspective of our broom-head attached to the handle and to the straw; Fig. 2, a detail perspective of one of the end plates with its flanges; Fig. 3, a detail view of one of the side plates; Fig. 4, a detail view of one of the clamping-wires.

In the drawings, A A represent flat side plates, which have a row of holes *a*, arranged at intervals near the bottom edge *a'*, which may be strengthened by being rolled upon a wire to form a bead.

B B are curved end plates, which are provided with a hole *b* near each end and with the parallel flanges *b' b'*, the latter being at right angles to the plates.

Each of the plates A A and B B has a shoulder-cap C, which is nailed or otherwise secured to the handle D. These plates may be formed of any material which combines stiff-

ness and elasticity; but we preferably use metal for the purpose. After arranging the plates A A within the flanges *b' b'* and fastening the caps C to the handle D, we clamp them upon the broom-straw by means of the wires E, which are passed through the holes *a b* and their ends turned over toward one another among the straw. The end wires clamp the flanges *b'* with the side plates A, which bulge out a little between their ends, so as to make a more sightly broom. We propose to press down so much of the edge of the plates A as correspond with the flange part of the shoulder-caps, so that when the broom is made the outer surface of the edge of the caps and plates will be smooth to the touch.

By our construction we make a cheap, efficient, and durable broom-head, which will tenaciously retain all the straw until the broom has become useless from wear.

What we claim as new, and desire to protect by Letters Patent, is—

1. In broom-heads, the two flat side plates A, having the holes *a*, and the two curved flanged end plates B, having the holes *b*, in combination with the fasteners E, each formed of a wire passed through said holes *a b* and with the ends turned toward each other, substantially as shown and described.

2. A broom-head consisting of four plates A A and B B, each having an integral projection C, adapted to be nailed to the handle, as shown and described.

In testimony whereof we affix our signatures in presence of two witnesses.

MOSES S. CLYDE.
WILLIAM WELSH.

Witnesses:

JOHN A. STRAUB,
JOHN BENNETT.