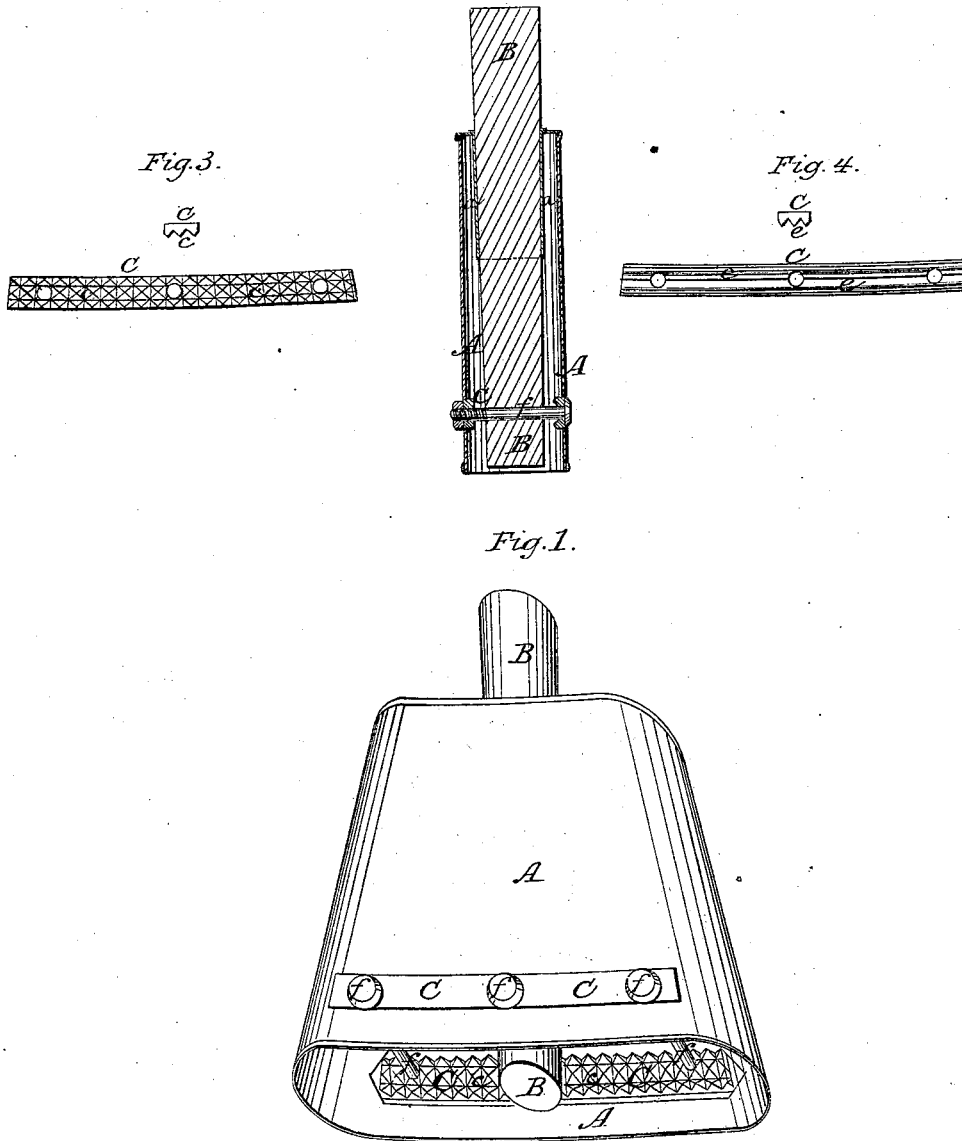


J. Danner.
Broom Head.

Nº 53,791.

Fig. 2. Patented Apr. 10, 1866.



Witnesses.

John D. Patton
Thos J. Chamberlain.

Inventor.

John Danner.
By atty A.B. Stoughton.

UNITED STATES PATENT OFFICE.

JOHN DANNER, OF CANTON, OHIO.

IMPROVED BROOM-HEAD.

Specification forming part of Letters Patent No. 53,791, dated April 10, 1866.

To all whom it may concern:

Be it known that I, JOHN DANNER, of Canton, in the county of Stark and State of Ohio, have invented a new and useful Improvement in Broom-Heads; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents the broom-head in perspective, with a portion of the handle shown therein. Fig. 2 represents a vertical section through the same. Figs. 3 and 4 represent end and longitudinal views of the clamping bars or strips detached from the broom-head.

Similar letters of reference, where they occur in the several separate figures, denote like parts in all the drawings.

I am aware that in metallic broom-heads a portion of the metal has been cut, turned in toward the filling, and, with serrated edges, is drawn into or against the broom-corn by clamping-screws. This I do not claim.

My invention consists in removing entirely a portion of the sides of the broom-head, and, after the broom-corn has been introduced, introducing into the openings in said sides serrated, grooved, or otherwise roughened plates, through which and through the interposed broom-corn, are passed screw-bolts to clamp the whole tightly together.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

A represents the exterior of a broom-head, which may be made of tin or any other sheet metal, preferring such metal for the sake of lightness with the requisite strength. Inside of this head there is a socket or ferrule, *a*, formed to receive the handle B and make a firm support between the two. I put the ferrule inside because it is there strengthened and supported by the filling of the head, which it would not be if placed, as is usual, on the outside. It may project outside of the head, however, if so preferred.

A long slot is made in each of the sides of the head, parallel, or nearly so, with the lower edge of the head, and in these slots, when the head is filled, are laid cast or other metal plates C, which may have their inner surfaces serrated or toothed, as at *c*, or simply grooved or ridged, as at *e*, and, by means of the through-bolts *f*, these plates are drawn tight up against the broom-corn to hold it firmly to the head. The thickness of these plates may be such as that they shall not be entirely drawn within the sides of the head. These clamping-plates are designed to snugly fill the slots or openings in the sides of the broom-heads without going through them entirely, which would prevent them from holding onto the head. The advantage of these side slots or openings is that it enables the user to better arrange the stalks or tops of the broom-corn within the head, and, when arranged, to lay in the clamping-plates and screw up the bolts *f*. The forming and turning in of a serrated flange made from the side of the broom-head interferes with the placing of the filling or broom-corn, and when the through-bolts go through the sides of the head and are drawn up they draw in the sides and make a bad finish to the broom.

Instead of screw-bolts common screws may be used, passing through one plate and screwing into the opposite one.

Having thus fully described my invention, what I claim therein as new, and desire to secure by Letters Patent, is—

In combination with a broom-head having slots or openings in each of its sides, the clamping-plates C and through or tightening bolts *f*, for the purpose of first arranging and then tightly clamping the broom-corn or other filling to the broom-head, substantially as herein described and represented.

JOHN DANNER.

Witnesses:

W. W. CLARK,
GEO. W. RAFF.