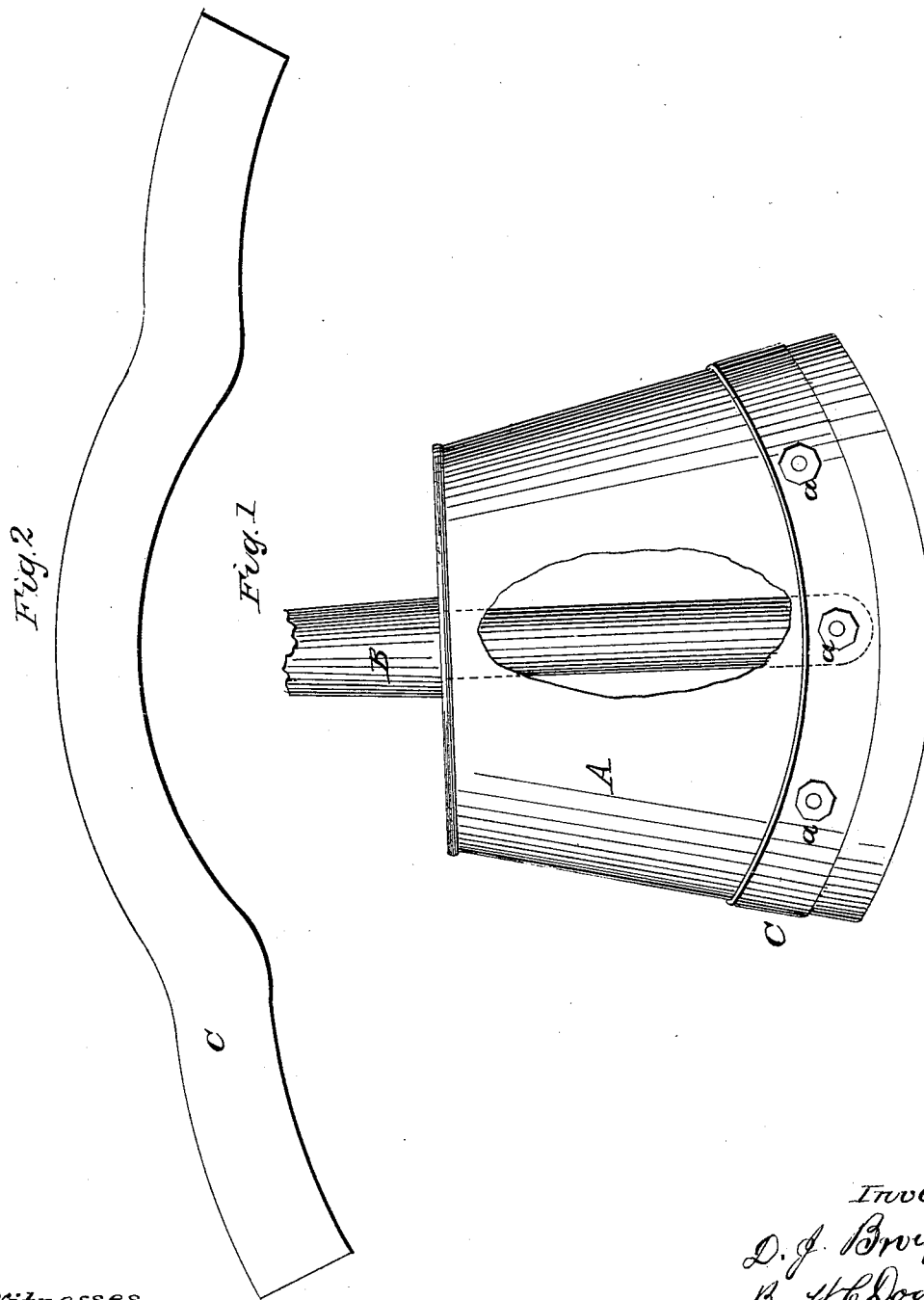


D. J. BROUGHER.

Broom Head.

No. 51,689.

Patented Dec. 26, 1865.



Witnesses
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UNITED STATES PATENT OFFICE.

D. J. BROUGHER, OF HARRISBURG, PENNSYLVANIA.

BROOM-HEAD.

Specification forming part of Letters Patent No. 51,689, dated December 26, 1865.

To all whom it may concern:

Be it known that I, D. J. BROUGHER, of Harrisburg, in the county of Dauphin and State of Pennsylvania, have invented a new Improved Broom Head or Frame; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making part of this specification.

Figure 1 is a side view; Fig. 2, a side view of the band as cut out of metal before being formed up.

The nature of my invention consists in making a light and cheap case for holding the brush of the broom securely, and so constructed that any person can readily replace the brush when worn by use.

To enable others skilled in the art to construct and use my improved broom-head, I will proceed to describe it.

I am aware that many plans have been devised for accomplishing the object that I seek; but such devices are generally inefficient, for the reason that they are too heavy and clumsy to be used with advantage, or do not hold the brush securely, and are frequently too expensive to make. It is to obviate these objections that my invention is devised.

A represents an oval or nearly flat case, made preferably of sheet-tin, of the form shown in Fig. 1. This case has its upper end closed by a flat piece secured in any suitable manner, having a hole in its center, through which the handle B is inserted, as shown, the handle being provided with a shoulder where it comes in contact with the top of the case.

Around the lower portion of the case A a band, C, constructed of metal heavier than that of which the case is formed, is placed, this band C being composed of sheet-iron, German silver, or some similar material that will yield or bend without breaking. The form of this band C, as cut from a piece of sheet metal previous to being formed into shape, being shown in Fig. 2. This band C is provided with three or more holes in each half, corresponding with similar holes made

through the lower portion of the case A, and through these holes small bolts *a* are inserted and provided with nuts for tightening up the case. The lower end of the handle extends down into the case far enough to permit the central bolt to pass through it, and thus unite the handle and case firmly together.

The case being thus constructed it is only necessary, in order to complete the broom, to insert the stem of the brush into the case A and tighten up the nuts on the bolts *a*.

By making the band of material that will yield more or less to the pressure applied by the bolts and nuts the case is made to adjust itself to the varying thicknesses of brush in the different parts of the case, which cannot be done where cast-iron plates are used on the sides of the case.

By using the additional bolts the case is pressed more or less tight in its various parts, according to the thickness of the mass of brush, which cannot be so inserted as to be of uniform thickness throughout, and thus prevent the brush, near the outer edges or sides of the case, from becoming loose and working or falling out. They also serve to keep the brush from being crowded from the edges toward the center when the broom is used edgewise, as is more or less necessary in sweeping out corners and along the base-board and angles of the room, a difficulty to which many of those heretofore devised are specially liable when in practical operation.

By my invention I provide a very cheap, light, and efficient article, and one that will enable any person to make their own brooms at pleasure.

Having thus fully described my invention, what I claim is—

A broom-head consisting of the thin metallic case A, provided with the band C and bolts *a*, all arranged and operating as shown and described.

D. J. BROUGHER.

Witnesses:

J. F. CALLAN,
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