

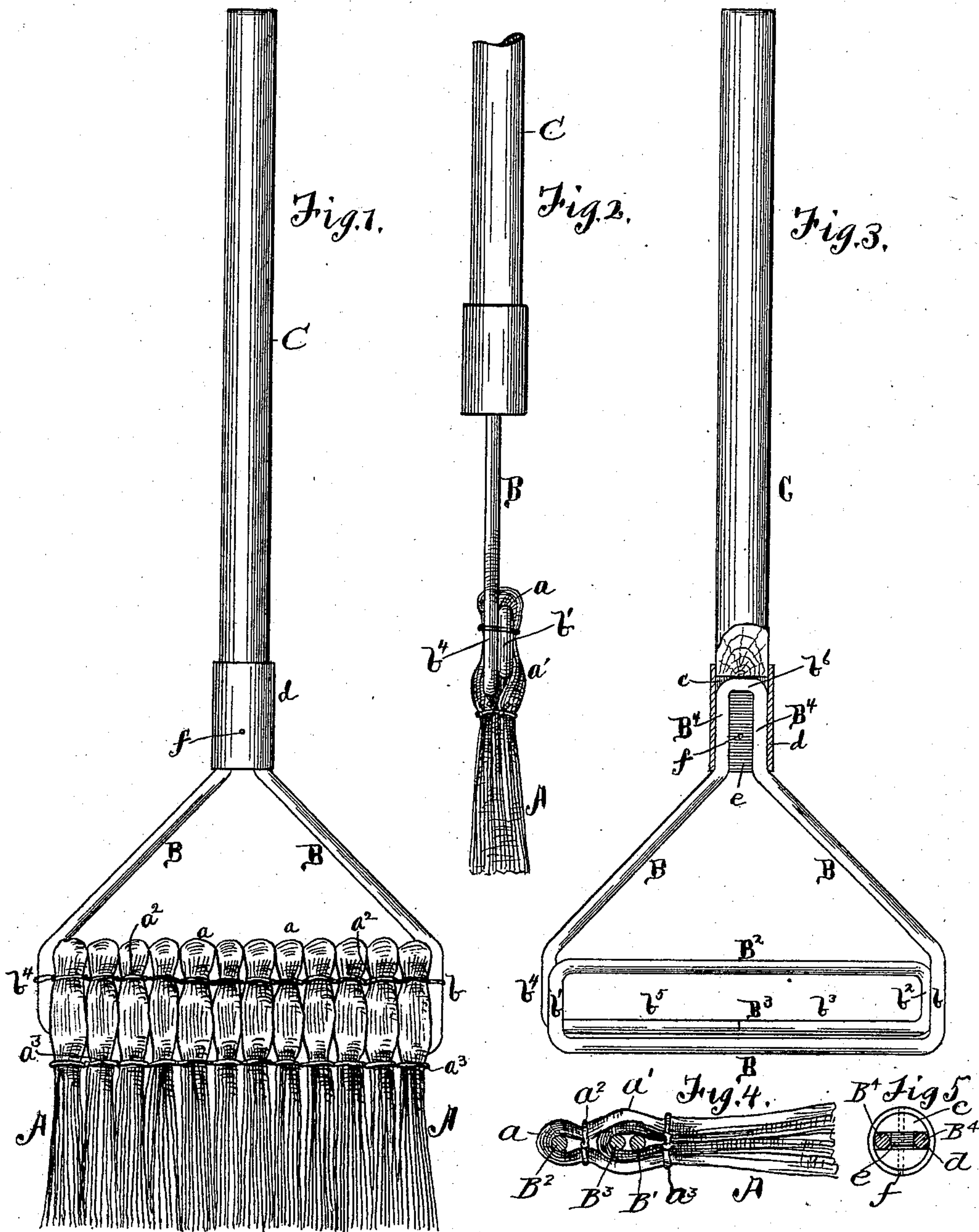
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Patented Feb. 4, 1902.

A. BALDWIN.
BRUSH OR BROOM.

(Application filed July 12, 1901.)

(No Model.)



Witnesses.
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UNITED STATES PATENT OFFICE.

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BRUSH OR BROOM.

SPECIFICATION forming part of Letters Patent No. 692,593, dated February 4, 1902.

Application filed July 12, 1901. Serial No. 68,049. (No model.)

To all whom it may concern:

Be it known that I, ALONZO BALDWIN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Brushes or Brooms, of which the following is a specification.

This invention relates more especially to the construction of a head on which to secure the fibers, splints, bristles, or other material for the brush or broom and a support for such head, furnishing a connection between the head and the handle; and the principal object of the invention is to construct a combined head and support from a single piece of metal bent or turned on itself to have a tang or neck, side supporting-arms, and a base or head, thereby forming the support and head in an economical manner and at the same time giving the head firmness and rigidity for the attachment of the brush or broom material, with sufficient yield and flexibility between the head and the handle for the proper action in use, all as hereinafter more specifically described, and pointed out in the claims.

In the drawings, Figure 1 is a side elevation of a brush or broom embodying the features of construction which enter into the invention; Fig. 2, an edge elevation of the brush or broom shown in Fig. 1 with the handle broken off; Fig. 3, a side elevation with the lower end of the handle in section and showing the base or head and the support with the brush or broom material removed; Fig. 4, a cross-section through the base or head with the brush or broom attached; and Fig. 5, an end elevation of the handle, with the sides of the neck or tang in section, showing the wedge for firmly securing the head and support to the handle.

The brush or broom A can be made of any suitable material adapted for constructing a brush or broom and which is capable of being attached to the base or head by looping thereover or otherwise and being secured in place by tying or wiring or in any other suitable manner. The combined support and head or base is formed from a single piece of metal, preferably wire, which can be bent or

turned so as to have side arms or bars B, a lower cross-bar B', an upper cross-bar B², and a cross-bar B³, lying, in the arrangement shown, above and adjacent to the cross-bar B', the two bars forming, in effect, a double cross-bar. The support, in the manner of bending or turning shown, has the diagonal side arms or bars united at the apex end by straight side bars and a cross-bar b⁶, which bars form a neck or tang B⁴ for attachment to the handle. One of the diagonal side bars or arms is connected with the cross-bar B' by a straight side b. The cross-bar B' is connected with the cross-bar B² at one end by a straight side b'. The cross-bar B² at its opposite end has a straight side b² and a continuation inward b³, forming one section of the cross-bar B³, and the other side bar or arm B has a straight side b⁴ and a continuation b⁵, forming the other section of the cross-bar B³, the two continuations or extensions b³ and b⁵ abutting against one another, if so desired, at their meeting ends, as shown in Fig. 3.

The diagonal side bars or arms B constitute the support for the head and the connecting means for the head with the handle, and the head or base proper is formed by the cross-bars B', B², and B³, which bars, by reason of the straight sides joining the bars at the ends and the parallelism of the bars, make a neat and compact head that is very strong and well adapted for the attachment thereto of the tufts or bunches of fibers or splints of the brush or broom. The tufts or bunches for the brush or broom in the arrangement shown are turned on themselves, so as to form a loop a, encircling or partially encircling the upper cross-bar B², and a loop a', encircling the cross-bars B' and B³, and, as shown, the tufts or bunches are attached and held in place by means of a cord or wire a², interlaced around the tufts or bunches of material adjacent to the cross-bar b², and a cord or wire a³, interlaced around the bunches or tufts of the material adjacent to the cross-bar B', as shown in Fig. 1; but the material for the brush or broom can be otherwise attached if desired. The application of the brush or broom material, looped or otherwise secured around the cross-bar of the base or head, serves to stiffen

and strengthen the cross-bar or head and add rigidity thereto, and when the brush or broom material is attached to the head or base the brush or broom as a whole will be found very strong and durable.

The handle C can be made of wood or other suitable material, and, as shown, its lower end has therein a slot c, adapted to receive the neck or tang of the support, which can be entered into the slot and will be held in one direction by the engagement of the walls of the slot with the side bars and end bar of the neck or tang, and, as shown, the attachment is made firm and strong by forcing the side bars of the neck or tang against the inner face of a band or ferrule d, encircling the lower end of the handle, and such forcing is by means of a wedge e, driven between the side bars of the neck or tang, so as to force the side bars tightly against the inner face of the band or ferrule, and, as shown, in order to hold the parts securely in place a cross nail or pin f is driven through the band or ferrule, the end of the handle, and the wedge, so as to prevent the wedge from slipping out and the band or ferrule from becoming loose in use.

The head or base and the support therefor connecting the head or base with the handle is made in its preferred form, as already said, from a single piece of metal, preferably wire, which can be bent or turned as shown or otherwise formed so as to have side bars or arms standing diagonally and terminating at the apex in a neck or tang for attachment to the handle and to have cross-bars arranged, as shown or otherwise, so as to form a base or head having an upper and a lower cross-bar joined at one end to a side bar or arm and joined at the other end one to the other, and a divided cross-bar, one section of which is joined to the other side arm or bar and the other section of which is joined to the upper cross-bar, or the metal or wire from which the head or base and its support is formed can be turned so as to have the cross-bars constituting the head or base proper continuous and the neck or tang divided so long as the construction is one which will furnish a neck or tang for attachment to a handle, side supporting arms or bars, and a base or head formed of cross-bars and adapted to have secured thereto the material for the brush or broom.

The support and the head or base formed from a single piece of metal turned or bent into shape to have a neck or tang, side supporting arms or bars, and cross-bars makes the manufacture very economical and at the same time furnishes a support and a base or head well adapted for the purpose intended and to which the material for the brush or broom can be easily secured and when secured the completed article will be neat, strong, and durable. The neck or tang in connection with the slot in the end of the

handle, the band or ferrule, and the wedge, either with or without the cross pin or nail, furnishes a ready and easy means for attaching the brush or broom to the handle in a secure and strong manner and by which the brush or broom will be firmly attached to the handle.

The simplicity of the head or base and its support and the attachment thereof to the handle, combined with the rigidity of the head or base and the yield or flexibility of the connection to the handle, are advantageous features found in the construction of brushes or brooms made in accordance with my invention.

I claim—

1. A combined support and head or base for brushes and brooms, consisting of a single piece of material formed to have side supporting arms or bars and cross-bars one over the other constituting the head or base proper and adapted for attachment of the material for the brush or broom, substantially as described.

2. A combined support and head or base for brushes and brooms, and formed of a single piece of material bent to have diagonal side supporting arms or bars, a tang or neck at the apex end of the side arms or bars and cross-bars one over the other constituting the head or base proper and adapted for attachment thereto of the material for the brush or broom, substantially as described.

3. The combination, in a brush or broom, of a combined support and head or base, formed of a single piece of material to have side supporting arms or bars, a tang or neck for attachment to the handle and three cross-bars two of which are adjacent forming in effect, a double bar, the bars constituting the head or base proper, and brush or broom material attached to the base or head proper, substantially as described.

4. The combination, in a brush or broom, of a combined support and head or base, having side supporting arms or bars, a tang or neck for attachment to the handle, cross-bars a single bar above and two adjacent bars below constituting the head or base proper, brush or broom material attached to the head proper, and a handle having the tang or neck secured in its end, substantially as described.

5. The combination in a brush or broom, of a combined support and head or base having side supporting arms or bars, cross-bars one above the other constituting the head or base proper and two series of broom-wisps the inner and lower series being bent around the lower cross-bar and the outer and upper series being bent around the upper cross-bar and secured over the inner and lower series of wisps and cross-bar therein, substantially as described.

6. The combination in a brush or broom, of a combined support and a head or base having side supporting arms or bars, a tang or

neck for attachment to the handle, cross-bars
a single bar above and two adjacent bars be-
low constituting the head or base proper and
two series of broom-wisps the inner and lower
5 series being bent around the adjacent lower
cross-bars and the outer and upper series be-
ing bent around the single upper bar secured

over the inner and lower series of wisps and
the bars contained therein, substantially as
described.

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