

(No Model.)

J. R. GILBERT.
BROOM HEAD.

No. 538,672..

Patented May 7, 1895.

Fig. 2.

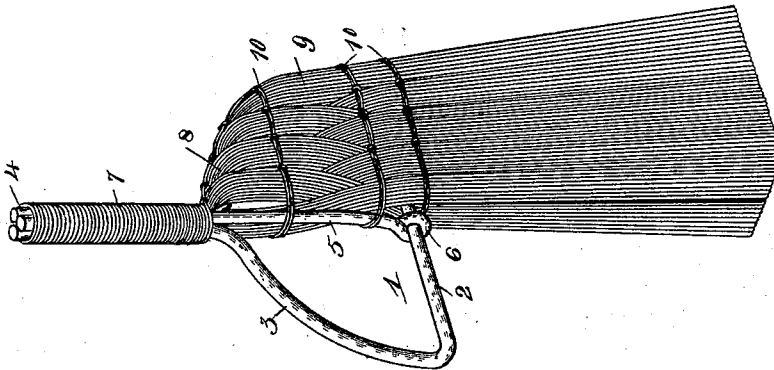
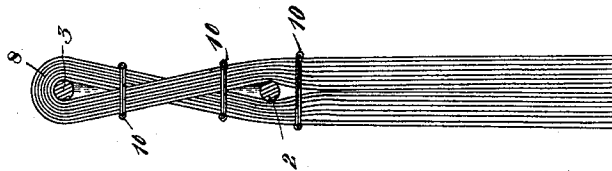


Fig. 1.

Inventor

James R. Gilbert,

Witnesses

John C. Shaw
A. S. [Signature]

By his Attorneys,

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UNITED STATES PATENT OFFICE.

JAMES R. GILBERT, OF KISSIMMEE, FLORIDA.

BROOM-HEAD.

SPECIFICATION forming part of Letters Patent No. 538,672, dated May 7, 1895.

Application filed May 23, 1894. Serial No. 512,213. (No model.)

To all whom it may concern:

Be it known that I, JAMES R. GILBERT, a citizen of the United States, residing at Kissimmee, in the county of Osceola and State of Florida, have invented a new and useful Broom-Head, of which the following is a specification.

My invention relates to improvements in broom heads and it has for its object to provide a simple, inexpensive and durable construction whereby the broom-corn, grass, or other fiber may be readily and quickly applied and replaced when worn; to provide a construction of frame which will insure the proper disposition and spread of the fiber; and to provide means for bracing the frame and forming a suitable tang or stem for insertion in the end of the handle.

Further objects and advantages of my invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a broom-head embodying my invention, in which the fiber is shown covering one-half of the frame. Fig. 2 is a vertical section of the head with the fiber in place to show the arrangement of the latter and the means for securing it in place.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

The frame 1 is constructed of a single wire or rod which is bent to form a loop having a lower transverse bar or side 2 and an upper curved bar or side 3, the portions of the wire or rod forming said upper bar or side being extended and arranged parallel with each other to form the tang or stem 4.

In the drawings I have shown the upper bar or side starting from the extremities of the lower bar or side and extending in a continuous curve to the point of intersection with the tang or stem, but it is obvious that this precise shape may be varied to cause the desired shape of the top of the broom head.

5 represents a brace-bar, provided at its lower end with an eye 6 which is engaged with the lower bar or side at its center and extends vertically and centrally through the

space inclosed by the frame and thence parallel and in contact with the upturned extremities of the wire or rod comprising the frame. The extremities of said wire or rod forming the frame and the contiguous portion of the brace-bar are secured in contact to complete the tang or stem by binding 7 of wire or similar material. This binding wire should be of small size or gage, as shown.

The fiber which is preferably applied to the frame in bunches or wisps, is doubled upon itself at its center to form a loop 8 which is engaged with the upper bar of the frame. The sides of the loop are then crossed between the upper and lower bars or sides of the frame and are carried, respectively, upon the opposite sides of the lower bar or side. Thus, the sides of the loop formed by the fiber are crossed or intersected between the upper and lower sides or bars of the frame, and the portions of the upper bar or side which are adjacent to the extremities of the lower side or bar are covered by lateral bunches or wisps which are shown at 9. The fiber is further secured in place by means of the stitching 10, which may be arranged in any preferred manner. This stitching, however, owing to the peculiar interlacing of the sides of the loops formed by the fiber, may be arranged in any preferred simple or convenient manner, as it simply serves to prevent lateral displacement of the bunches of fiber. The stitching may be and preferably is secured, at its points of intersection therewith, to the centrally disposed brace-bar, as shown clearly in Fig. 1.

It will be understood that in practice various changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of my invention.

Having described my invention, I claim—

1. In a broom head, the combination with a frame having spaced bars or sides, of looped fiber having its looped portion secured to one bar or side and having its sides crossed and arranged upon opposite sides of the other bar or side, substantially as specified.

2. A broom-head frame constructed of a single wire or rod bent to form a loop having a straight lower bar or side and a curved upper bar or side, the ends of the loop being ex-

tended parallel with each other to form a tang
or stem, in combination with fiber doubled at
its center to engage the upper bar or side, and
having its sides crossed between the upper
5 and lower bars or sides and passed upon op-
posite sides of the lower bar or side, substan-
tially as specified.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in
the presence of two witnesses.

JAMES R. GILBERT.

Witnesses:

J. W. HARWELL,
W. S. HARWELL.