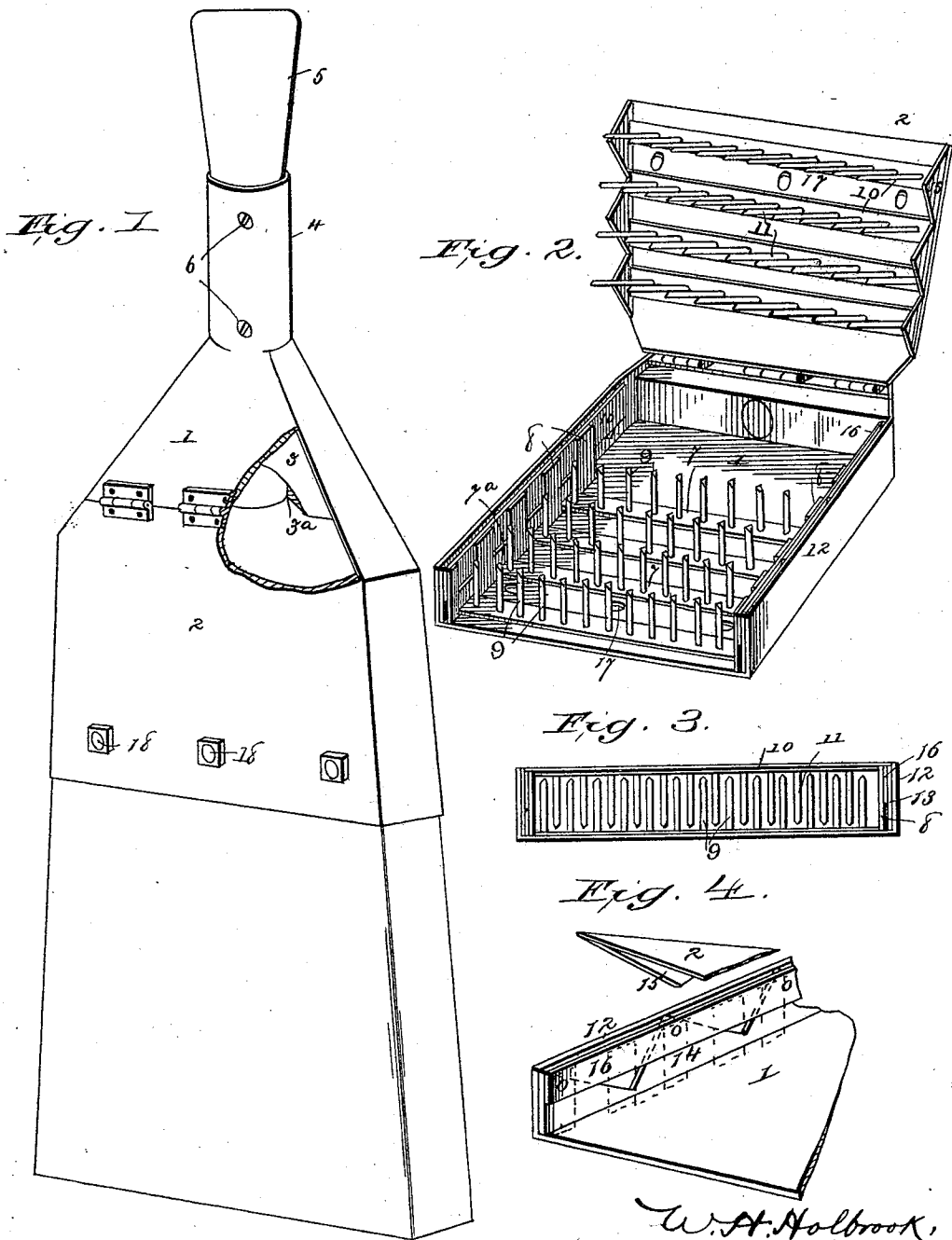


(No Model.)

W. H. HOLBROOK.
BROOM HEAD.

No. 459,468.

Patented Sept. 15, 1891.



Witnesses
C. S. Frye
E. E. Lodge

W. A. Holbrook,
Inventor:

G. W. F. B. Smael &
Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM HENRY HOLBROOK, OF JUNCTION CITY, ILLINOIS.

BROOM-HEAD.

SPECIFICATION forming part of Letters Patent No. 459,468, dated September 15, 1891.

Application filed April 28, 1891. Serial No. 390,768. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HENRY HOLBROOK, a citizen of the United States, residing at Junction City, in the county of Gallatin and State of Illinois, have invented certain new and useful Improvements in Broom-Heads; and I do hereby 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.

My invention consists in a new and improved metallic broom, whisk, or brush head which will entirely obviate all necessity for sewing the head of the broom or brush, and which is practically indestructible with fair usage; and the invention will be hereinafter fully described and claimed.

Referring to the accompanying drawings, Figure 1 is a perspective view of the closed casing, a part of the same being broken away. Fig. 2 is a perspective view showing the hinged side of the broom-head open. Fig. 3 is an end view of the casing. Fig. 4 illustrates in detail, on an enlarged scale, one of the side fastenings of the broom-head.

The same numerals of reference indicate corresponding parts in the several figures.

Referring to the several parts by their designating-numerals, my new and improved head-casing for brooms, brushes, &c., is formed of a flat metallic casing 1, which may be formed of any suitable thin metal. One flat side 2 of this casing is hinged at its upper end, as shown, so that it can be readily opened to place the straw in the broom-head and as readily closed. Within the upper part of the casing, at the point where the side 1 is hinged, is secured a transverse bar or piece 3 of wood, and the upper end of the head-casing tapers up to a socket 4, with which its upper end is formed. The lower end of the handle 5 is inserted in the socket 4, and its lower extremity fits in a central aperture 3^a of the cross-piece 3, thus giving a firm brace and support for the handle, and the handle is prevented from pulling out of the socket by the screws 6. Within the body of the casing 1 are secured the series of transverse metal strips 7. The ends 7^a of these metal strips are bent up at right angles and fit down between small cleats 8, and in the bars or strips

7 are secured the series of straight teeth 9, the upper ends of which are flattened and pointed, as shown. By this construction of the strips 7 and the cleats 8 any one of the strips can be readily removed from the frame, when required, for the purpose of replacing it with a new one, or of sharpening the teeth, or for any other desired purpose.

Across the inner side of the hinged side 2 of the casing is secured the series of metal strips 10, in which is secured the series of straight teeth 11, which is so arranged that when the hinged side is closed they will fit down between the series of teeth 9, secured on the fixed side of the casing, the points of the teeth 11 being likewise flattened and sharpened.

The narrow sides 12 of the head-casing have secured to their inner sides the metal strips 13, the upper edges of which are formed with the deep inclined teeth 14, shaped like the teeth of a saw. The edges of the hinged side 2 are bent down at right angles and cut to form the pointed teeth 15, the shape of which corresponds to that of the teeth 14; but the teeth 15 are so arranged that when the hinged side 2 is closed they will fit down between the pointed teeth 14, thus firmly securing the ends or edges of the hinged side 2 to the body of the casing. A narrow metal strip 16 is secured to the inner side of each toothed strip 13, the pointed teeth 15 fitting down between the sides 12 and the strips 16. The strips 16 are of such width that their lower edges do not extend down to the bottom of the spaces between the deep inclined teeth 14, leaving the lower ends of said spaces open, so that when the hinged side 2 is closed the teeth 15 will force any dirt that may have lodged in the teeth 14 out through these open spaces below the lower edges of the narrow inner strips 16. The fixed side of the casing and the hinged side 2 are formed near their lower ends with the opposite apertures 17.

In operation the straw to the desired quantity is placed within the casing, the hinged side 2 having been turned back. The upper ends of the straw are placed in the casing until the latter is full, when the hinged side is turned and pressed down into its closed position. A wooden pin is inserted through the openings 17 to clear the straw out of the

way between such openings, and the binding set-screws 18 are then passed through the said openings and turned to lock the metal head firmly in its closed position. It will be seen that when this is done the straw within the casing will be firmly seized and held between the numerous pointed locking-teeth of the broom-head, which fit between each other so as to bite the straw in such a manner that it will be impossible for it to work or pull loose.

From the foregoing description, taken in connection with the accompanying drawings, the construction and great advantages of my invention will be readily understood. It will be seen that my metallic broom, whisk, or brush head is simple and exceedingly strong and durable in its construction. It will last a life-time with fair usage, and as soon as the straw becomes too much worn the casing can be opened and the straw removed and replaced with new straw of the full length, rendering the broom again practically new.

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

1. The combination of the casing 1, having the series of parallel cleats 8 and the hinged side 2, the straight metal strips 10, having the series of flat-pointed teeth 11, secured to the inner side of the hinged side 2, and the removable metal strips 7, provided with a series of flat-pointed teeth 9 and formed with

the ends 7^a, bent at right angles and adapted to fit removably between the fixed cleats 8, substantially as set forth.

2. The combination of the casing 1, having the series of projecting teeth, the metal strips 13, formed with the deep inclined teeth 14 and secured to the inner side of the side pieces 12, the metal strips 16, secured to the inner side of the teeth 14, and the hinged side 2, provided with the series of teeth and having its ends bent down and formed with the pointed interlocking teeth 15, substantially as set forth.

3. The combination of the casing 1, having the series of inwardly-projecting teeth, the metal strips 13, formed with the deep inclined teeth 14 and secured to the inner side of the side pieces 12, the narrow metal strips 16, secured to the inner side of the teeth 14, so as to leave the spaces between the lower ends of said teeth clear, the hinged side 2, provided with the inwardly-extending teeth and formed at its ends with the inclined interlocking teeth 15, and the binding set-screws 18, arranged as specified, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM HENRY HOLBROOK.

Witnesses:

M. M. CORL,
J. C. HART.