

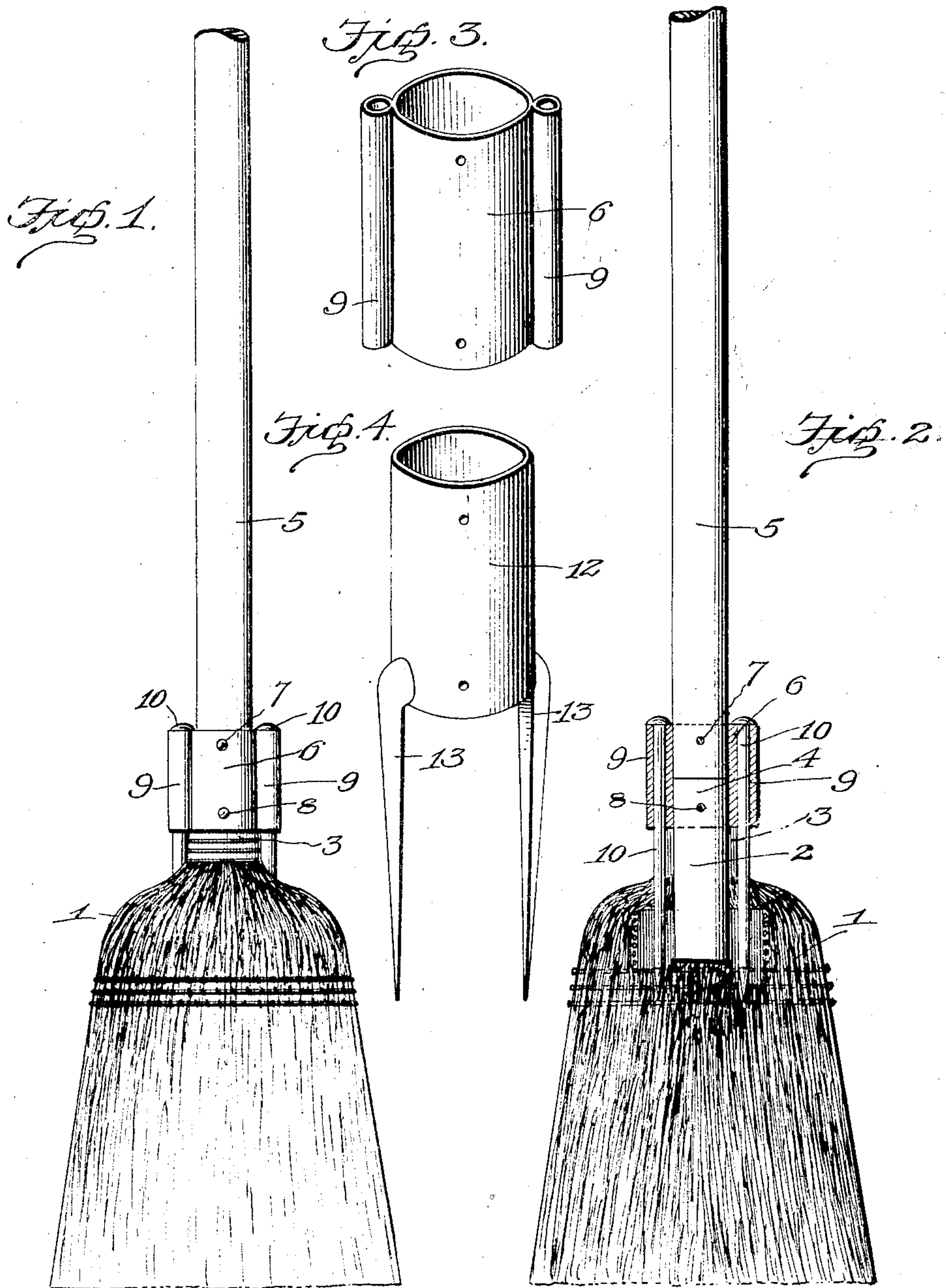
S. F. FRAZIER.

BROOM.

APPLICATION FILED APR. 15, 1909.

931,290.

Patented Aug. 17, 1909.



Witnesses  
*C. E. Hunt*  
*E. O. Hilton*

Inventor  
*S. F. Frazier*  
By *A. Rivison*  
Attorney



# UNITED STATES PATENT OFFICE.

SIMON F. FRAZIER, OF QUENEMO, KANSAS.

## BROOM.

No. 931,290.

Specification of Letters Patent.

Patented Aug. 17, 1909.

Application filed April 15, 1909. Serial No. 490,072.

*To all whom it may concern:*

Be it known that I, SIMON F. FRAZIER, a citizen of the United States, residing at Quenemo, in the county of Osage and State of Kansas, have invented certain new and useful Improvements in Brooms; and I do 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.

This invention relates to improvements in brooms.

The object of the invention is to provide a broom head and a removable handle therefor and means to detachably and firmly secure the handle to the broom head.

A further object is to provide a device of this character which will be simple, strong, durable and inexpensive in construction, efficient and reliable in operation and so formed as to enable the handle to be quickly and easily secured to the broom head.

With the foregoing and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a side view of a broom constructed in accordance with the invention; Fig. 2 is a vertical sectional view of the same; Fig. 3 is a perspective view of the broom attaching ferrule; Fig. 4 is a similar view of a modified form of attaching device.

Referring more particularly to the drawings, 1 denotes the broom head which is formed on a central core said core being preferably in the form of a wooden plug 2, the upper end of which projects a slight distance above the neck 3 of the broom head, as shown at 4. The handle 5 of the broom may be of the usual or any desired construction and has secured to its lower end a ferrule 6 which is adapted to snugly fit the lower end of the handle and is preferably secured thereto by means of a nail or screw 7 which is inserted through the ferrule and driven into the handle, as shown. The end of the handle is projected approximately half way through the ferrule so that a socket is formed in the outer end of the same, by means of which the ferrule is engaged with the projecting end 4 of the plug 2 in the broom head and the ferrule is preferably

held in engagement with the end of the plug by means of a nail or screw 8, as shown.

On the opposite sides of the ferrule 6, are formed or secured tubular sockets 9 through which are adapted to be inserted nails or spikes 10 which extend longitudinally of the ferrule, when the handle and ferrule are in engagement with the broom head, are adapted to be driven longitudinally into the hard inner portion of the head thus securely bracing and holding the handle in position on the broom head.

By providing a broom head and handle attaching device constructed as herein shown and described, a handle may be quickly and easily secured in place and rigidly held in position on the broom head and when the head is worn out the handle may be detached and applied to a new head, thereby saving the expense of a separate handle for each new broom head.

In Fig. 4 of the drawings, is shown a modified form of handle attaching device, said device comprising a ferrule 12 having on its lower end broom head engaging prongs 13 which are adapted to be forced into the head of the broom when the device is applied thereto for attaching the handle. The prongs 13 and ferrule 12 are cast in one piece and the ferrule is applied to the end of the broom handle and the projecting end of the plug in the broom head in the same manner as described in connection with the first figures of the drawings.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention, as defined in the appended claims.

Having thus described my invention, what I claim is:

1. In a broom, a handle, a broom head, a ferrule secured on one end of said handle and penetrating head engaging prongs carried by and extending longitudinally of said ferrule and adapted to project longitudinally into the hard inner portion of the head of the broom to securely brace and hold the handle in position thereon.

2. In a broom, a handle, a broom head, a

ferrule secured on the end of the handle, sockets arranged on the sides of said ferrule, and nails arranged in said sockets and adapted to be driven into the broom head when the ferrule is engaged therewith to secure the handle thereto.

3. In a broom, a broom head, having a core in the form of a plug arranged to project beyond the neck of the broom head, a handle, a ferrule secured to the end of said handle, and adapted to be engaged with the projecting end of the plug in said broom

head, sockets arranged on the side of the ferrule and fastening nails arranged in said sockets and adapted to be forced into the broom head to secure the sockets and handle thereto.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

SIMON F. FRAZIER.

Witnesses:

W. D. HALL,  
L. M. CLOUD.