M. Burnett,

Broom.

No. 91,907. Patented June 29, 1869.

Fig. 1.

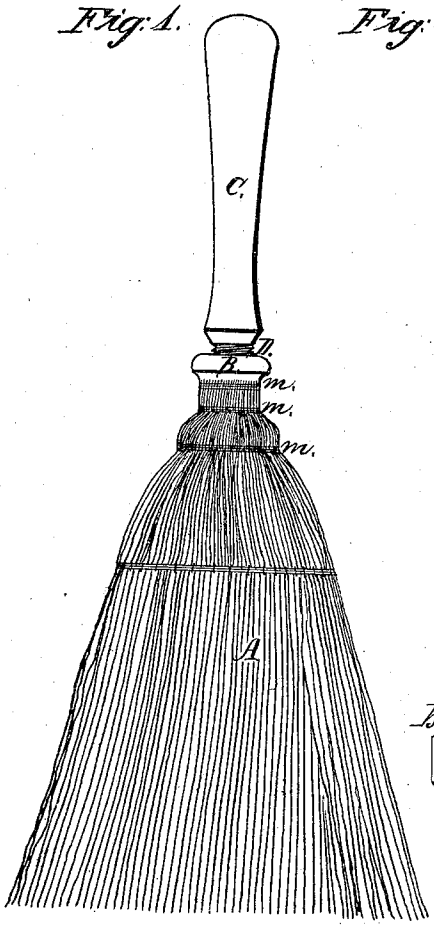


Fig. 2.

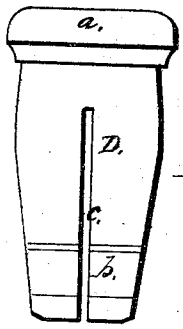


Fig. 3.

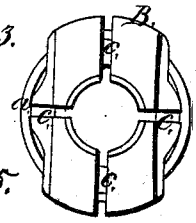


Fig. 5.

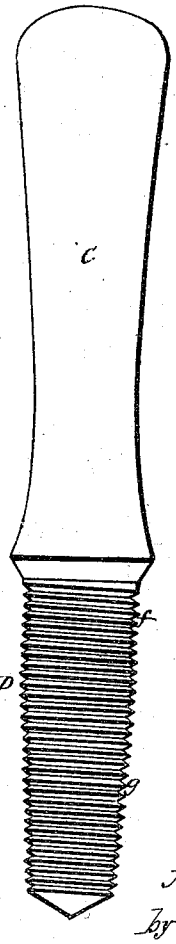
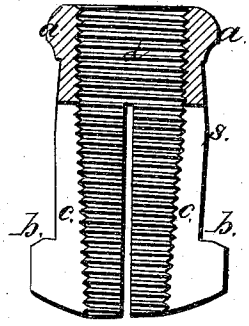


Fig. 4.



Witnesses;
S. N. Piper.
J. A. Snow.

Inventor;
M. Burnett.
by R. H. Eddy
Atty.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

United States Patent Office.

MARSHALL BURNETT, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 91,907, *dated June* 29, 1869.

IMPROVED BROOM.

The Schedule referred to in these Letters Patent and making part of the same.

To all persons to whom these presents may come:

Be it known that I, MARSHALL BURNETT, of Boston, in the county of Suffolk, and State of Massachusetts, have invented a new and useful Improvement in Brooms; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a side view of a broom provided with my invention;

Figure 2 is a side view;

Figure 3, a lower-end view; and

Figure 4, a longitudinal section of its expansive stock-holder.

Figure 5 is a side view of the handle used with the stock-holder, and provided with a cylindro-conical screw for effecting the expansion of the latter.

In the drawings—

A denotes the stock or mass of fibrous filaments or material, such as is usually attached to the handle of a broom.

In the construction of my improved broom, this mass of fibrous filaments or material is to be made, at one end, to encompass the stock-holder, shown at B, which is a round block of wood or other proper substance, having flanges *a b* at the ends, and also one or more slits *c*, extending up into it from its lower end, in manner as represented in figs. 2, 3, and 4.

The said block is tubular, or, in other words, is bored through lengthwise, with a cylindro-conical bore provided with a female screw, *d*.

A cylindro-conical male screw, D, formed on the lower part of the handle C of the broom, is screwed or to be screwed into the bore of the stock-holder.

The upper portion, *f*, of the body of the screw D, is cylindrical, while the rest of the said body, or that marked *g*, is a cone, or a conic frustum.

The stock, after having been applied to the expansion-holder, is to be bound thereto by a banding of wire or wires, *m*, or other proper material, wound tightly, or otherwise applied to the stock, so as to surround it, and confine it in place on the holder.

With a broom, as ordinarily made, the handle is liable to become loose within the stock, and, generally speaking, the two are so firmly connected as to be inseparable.

With my improvement, the part or holder to which the stock is fastened, may be easily expanded within the mass of stock, such being accomplished by screwing the handle firmly into the stock-holder. Thus it will be seen that in case of the holder or stock becoming dry and shrunk, so as to loosen the connection of the two, the holder may be easily expanded, so as to overcome the effect of the shrinkage.

My improvement also enables one handle to be employed for several holders, made and provided with stocks, as described.

I am aware that it is not new to provide a mass of bristles of a painter's brush, and the ferrule in which they are held, with a wedge or cone, either connected with or separate from the handle of such brush, and to be driven into the mass by screws, on revolving the said handle.

My invention involves something beyond such, by which the principle of expansion of the mass or stock may be applied to or used in a common house-broom; that is to say, I employ the expansive holder to enter the stock, and to which the stock is to be bound by wire or its equivalent. The wire takes the place of the ferrule of the brush, in whose head is a female screw, to receive the male screw of the brush-handle.

I am also aware that jaws to grasp and hold a mass of broom-stock, have been hinged together, and so connected with a handle, and provided with screws and a cone, as to be capable of being closed together by the action of such cone and screws, by simply revolving the handle, but in this case there was no expansive stock-holder to enter the mass of stock, and be secured thereto by wire or its equivalent, encompassing the stock.

I therefore claim the arrangement and combination of the expansive holder B, as described, with the stock A and its binding-wire *m*, or the equivalent thereof, and with the handle C and its screw D, to operate with such holder, as described.

I also claim the expansive broom-stock holder, substantially as specified.

Also, the combination of the expansive broom-stock holder with the handle and its screw, arranged to operate with such holder, as set forth.

MARSHALL BURNETT.

Witnesses:

R. H. EDDY,

S. N. PIPER.