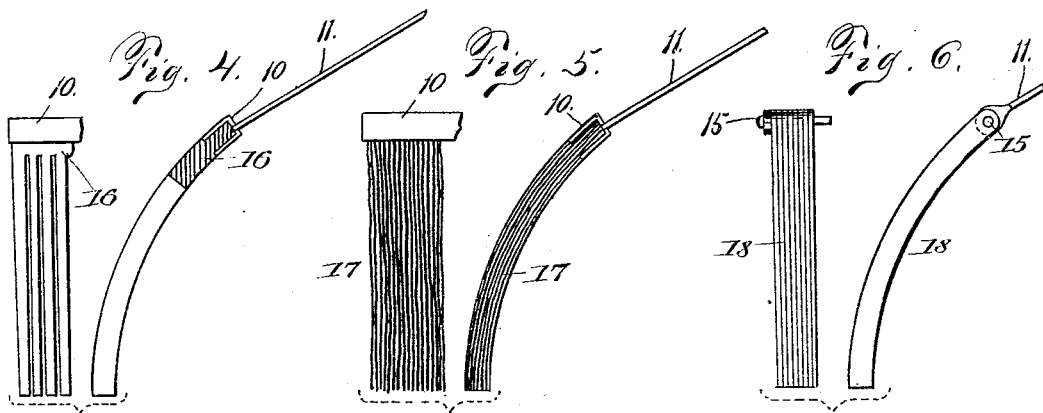
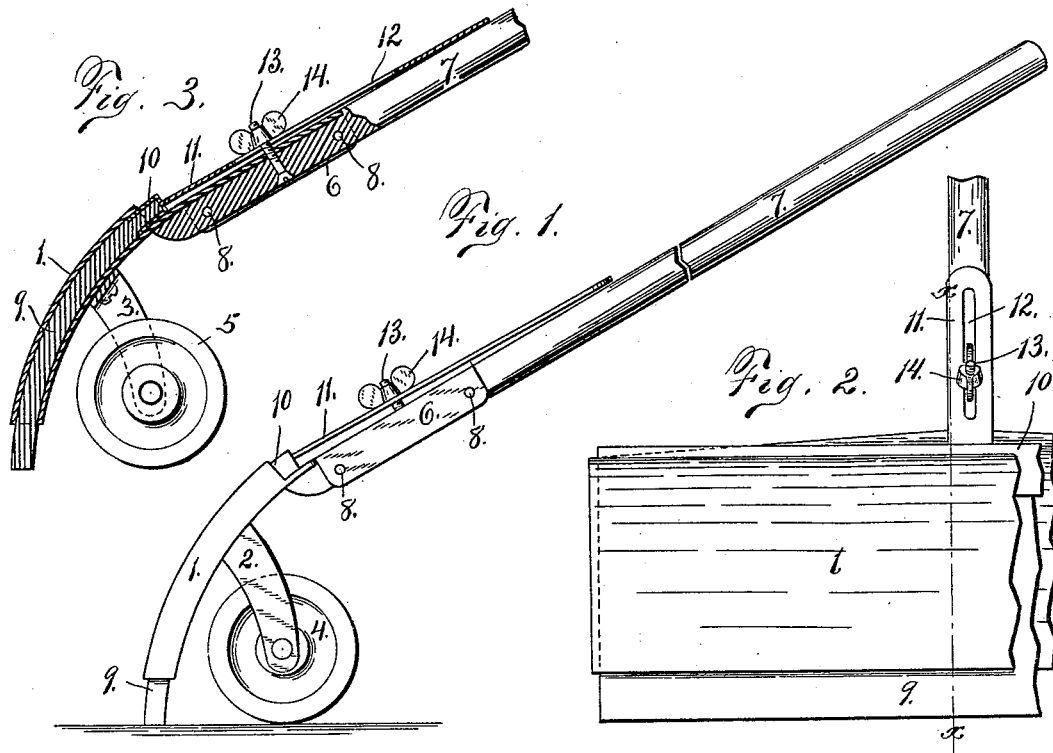


(No Model.)

J. A. COOK.
BROOM.

No. 493,483.

Patented Mar. 14, 1893.



Witnesses:
F. P. Kersten.
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UNITED STATES PATENT OFFICE.

JOHN A. COOK, OF BUFFALO, NEW YORK.

BROOM.

SPECIFICATION forming part of Letters Patent No. 493,483, dated March 14, 1893.

Application filed October 24, 1892. Serial No. 449,733. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. COOK, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Brooms; 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, reference being had to the accompanying drawings, and to figures of reference marked thereon, which form a part of this specification.

This invention has for its object the production of a peculiar style of broom which is adapted to be pushed by hand along the surface to be cleaned and it consists essentially of a casing open at top and bottom and having a roller or wheels attached to carry the same as it is propelled by the aid of a proper handle in the act of sweeping. A brush of any suitable material is carried within the casing, its lower end projecting from the bottom of the casing and its upper end having attached thereto adjustable means for fixedly holding the brush in its casing in any desired position.

I will now minutely describe the manner in which I have carried out my invention and then claim what I believe to be novel.

In the drawings, Figure 1 is a side elevation of my improved broom. Fig. 2 is a partial front view enlarged. Fig. 3 is a vertical section taken in the line $x-x$ of Fig. 2, and Figs. 4, 5 and 6 each show a partial front view and a side sectional view of modified forms of brushes detached.

Referring to the drawings, 1 is the casing preferably of metal in which the position of the brush is properly adjusted. This casing is open at top and bottom as clearly shown in Fig. 3, and its front and rear walls which are parallel, are slightly curved by preference. Upon its rear wall are two depending brackets 2 and 3, in the lower ends of which are journaled the wheels 4 and 5. These wheels extend below the lower end of the casing 1, when the broom is in the proper position for action as shown in Figs. 1 and 3, thus lifting the casing from the floor the required distance. From the upper end of the rear wall extends

a securing plate 6, turned down on either side to incase the lower end of the propelling handle 7, and secured thereto by the bolts 8. 8. The casing 1, brackets 2, 3 and securing plate 6, are all of metal and may if desired be cast in one piece.

In Figs. 1, 2 and 3, the brush shown at 9, consists of a flat sheet of rubber of uniform thickness and adapted to fit loosely but snugly within the casing 1. Its upper end is incased in a metallic sheath 10 to which is centrally secured the metallic strap 11, having the central longitudinal slot 12, adapted for the reception of the screw-threaded pin 13, rigid upon the handle 7. A thumb nut 14 engaging with the pin 13 serves to secure the strap 11 in fixed position.

In Fig. 4 the brush 16 is represented as composed of rubber, but laminated or cut into strips which for some uses is preferable to the solid sheet shown in Figs. 1, 2 and 3.

In Fig. 5 a brush 17 of broom-corn is shown and in Fig. 6, one of thin metal strips 18 curved to conform with the inner walls of the casing and strung upon a rod 15.

The laminated rubber sheet 16 shown in Fig. 4 and the brush 17 of broom corn shown in Fig. 5 are both secured in the metallic sheath 10 shown in Figs. 1, 2, and 3 and operate as to adjustment in the same manner as the solid rubber brush 9. In the modification shown in Fig. 6, the rod 15 takes the place of the sheath 10 but in all the forms of brush shown in the several figures the slotted strap 11 is the same.

Any one of these forms of brush may be employed as desired or others not mentioned within, as my invention proper consists essentially of the casing and the means employed for adjusting the brush therein.

In operation the brush 9 is adjusted and secured in position substantially as shown in Figs. 1, 2 and 3, by means of the slotted strap 11, 12 and thumb-nut 14, and in the act of propelling the broom the handle is held at the angle necessary to permit of effective contact of the projecting end of the brush 9, with the surface to be cleaned.

The action of my improved broom is simple and easy and as the projecting end wears away it can be quickly and easily fed down

in the casing the required distance until it is entirely worn away, the casing remaining intact and ready for a new brush as before.

I claim—

- 5 1. A broom consisting essentially of a casing open at top and bottom, having wheels to carry and a handle to propel the same, and a
10 brush of any suitable material carried within the casing, its lower end projecting from the bottom of the casing and its upper end having attached thereto adjustable means for fixedly holding the brush in the casing in any
15 desired position, substantially as shown and described.

2. A broom consisting of the casing 1, hav-

ing open top and bottom, and mounted upon wheels and secured to the handle 7, the brush 9, adjustable within the casing, its lower end protruding from the casing and its upper end having the slotted strap 11, 12 and the pin 13 20 and thumb-nut 14 for engagement with the slotted strap all substantially as and for the purpose stated.

In testimony whereof I have signed my name to this specification in the presence of 25 two subscribing witnesses.

JOHN A. COOK.

Witnesses:

W. T. MILLER,

F. P. KERSTEN.