

W. WALTER.
Broom.

No. 207,464.

Patented Aug. 27, 1878.

Fig. 1.

Fig. 3.

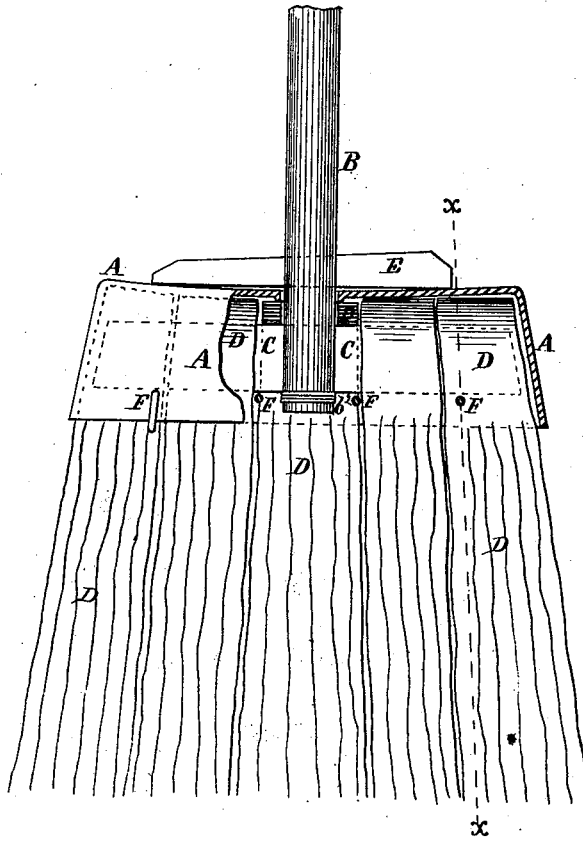
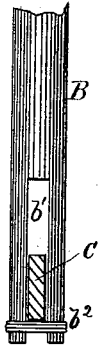
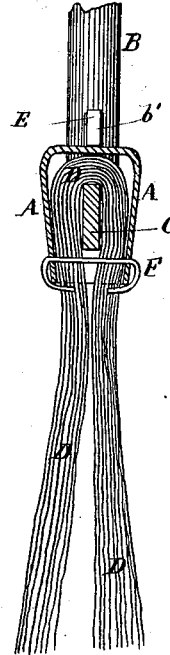


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM WALTER, OF ARCADIA, WASHINGTON TERRITORY.

IMPROVEMENT IN BROOMS.

Specification forming part of Letters Patent No. **207,464**, dated August 27, 1878; application filed June 11, 1878.

To all whom it may concern:

Be it known that I, WILLIAM WALTER, of Arcadia, in the county of Mason, Washington Territory, have invented a new and useful Improvement in Brooms, of which the following is a specification:

Figure 1 is a side view of one of my improved brooms, partly in section, to show the construction. Fig. 2 is a detail section of the same, taken through the line *x x*, Fig. 1. Fig. 3 is a side view of the lower end of the handle, the cross-strip being shown in section.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish brooms which shall be so constructed that the brush when worn may be readily replaced by a new one, and which shall be simple in construction, strong, and durable, and may be easily made.

The invention consists in the combination of the sheet-metal head, made with a slightly concaved top and flaring ends, the slotted handle, the cross-strip, and the key with each other to form a head to receive and hold the brush of the broom, as hereinafter fully described.

A is a sheet-metal head, cap, or case, which is made of the shape and size desired to be given to the broom-head. The top of the head A is slightly concaved, and its ends are slightly flared to give a proper spread to the brush of the broom. If desired, the top of the head A may have longitudinal slits formed in it to give a swell or bulge to the broom-head. Through the center of the top of the head A is formed a hole to receive the handle B, which hole should be made with wide smooth edges, so that the said edges will not cut the said handle.

The handle B has a slot, *b'*, formed in its lower end, in which is placed a cross-strip, C, the ends of which should be beveled to fit

against the flaring ends of the head A. The parts of the handle B should fit into shallow grooves formed across the middle parts of the sides of the strip C, and may be further secured to the said strip C by a pin. The strip C is further secured in the slot of the handle B by a wire, *b²*, wound around the end of the said handle, as shown in Figs. 1 and 3.

D is the brush of the broom, which is folded or doubled over the strip C, and is then drawn snugly into the head A, where it is secured in place by a key, E, driven through the upper part of the slot *b'* along the top of the head A, firmly clamping the various parts of the broom together. The brush D is further secured in place by wires F, passed through holes in the side parts of the head A and through the said brush D. The brush D may be made of the shavings or splints of any suitable tough timber, such as hickory, white oak, white elm, birch, hazel, &c., of broom-corn, flax, feathers, cane, and various kinds of tough and hard grasses. When the brush D is formed of grasses or other small fibers, the said fibers may be tied together in small bundles before being doubled over the strip C to prevent them from being drawn out.

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

The combination of the sheet-metal head A, made with a slightly concaved top and flaring ends, the slotted handle B, the cross-strip C, and the key E with each other, to form a head to receive and hold the brush of the broom, substantially as herein shown and described.

WILLIAM WALTER.

Witnesses:

CHARLS SAEGERS,
TOMOS PETERS.