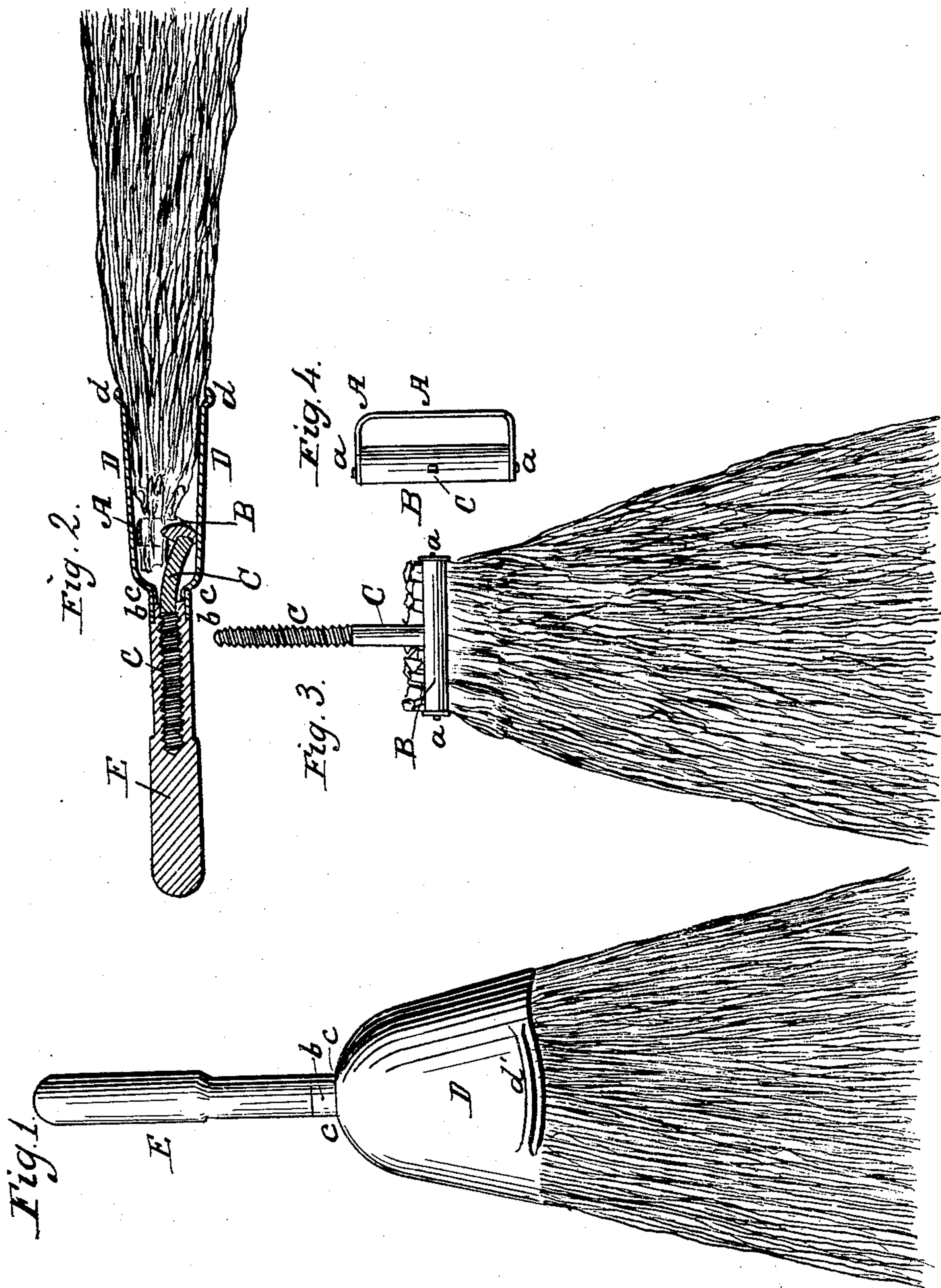


W. B. MOORE.

Broom Head.

No. 56,434.

Patented July 17, 1866.



witnesses:

J. O. Patterson
J. J. Chamberlain

Inventor:

William B. Moore
By atty A. B. Stoughton

UNITED STATES PATENT OFFICE.

W. B. MOORE, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN BROOM-HEADS.

Specification forming part of Letters Patent No. 56,434, dated July 17, 1866.

To all whom it may concern:

Be it known that I, WILLIAM B. MOORE, of the city of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in a Broom or Mop Head; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a view of the broom complete. Fig. 2 represents a section through the same. Fig. 3 represents the broom-corn as clasped to the broom-head and before the cap and handle are put on. Fig. 4 represents the clasp itself.

Similar letters of reference where they occur in the separate figures denote like parts in all the drawings.

My invention consists in using, in connection with a band, an eccentric roller or cam, with a lever to turn said cam, and thus clamp the broom-corn or other thing used to make the broom or mop tightly in the clamp.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

A is a band or loop of metal, in the bent ends of which an eccentric or cam roller, B, is hung by suitable journals or bearings *a a*, on which it can turn.

A lever, C, (which, for convenience and cheapness in the manufacture of the broom or mop, is terminated in a screw or thread to hold the handle, broom, and cap together,) is connected to the cam, so as to turn it in the bow or clasp.

D is a metal cap, into which the broom or mop is inserted, and then the handle E is screwed onto the screw-lever C, which completes the broom or mop.

To make the broom, it is only necessary to pass the stalk ends of the broom-corn into the space between the bow A and the eccentric-roller B, the throw of the cam or eccentric being turned away from the bow or loop. When this space is filled the lever C is caught and

the eccentric turned with its throw against the broom-corn, which clamps and holds it tightly. The cap D is then slipped over the lever or screw C, and over the ends of the broom-corn or other material, as also over the clasp or clamp, and the handle E is then run onto the screw-lever, which completes the broom. A mop is made in the same way, except that rope-yarns or some fibrous or textile material is used instead of the broom-corn.

The ferule *b* on the handle comes against a shoulder, *c*, on the cap, so that the turning of the handle draws the broom-corn or other material tight up into the cap.

To take out the old material before renewing the broom or mop, it is only necessary to unscrew the handle, slip off the cap, and turn the cam, and all is freed, and a new broom or new mop may be made in a few moments by anybody.

The cap is swaged into ribs or corrugations, as at *d*, to strengthen its sides.

I prefer to turn the cam-roller with the screw-shank C as a lever; but it is obvious that it can be turned with any other lever than the screw, and clamp just the same as though turned by the screw. I claim, therefore, the use of the bow and the eccentric for the purpose, whether the eccentric be turned by the screw or by a wrench, or any other separate lever.

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

The combination of the cam or eccentric roller with the bow, and with a lever for turning said roller to clamp the broom-corn or other material between the bow and cam-roller, and this I claim whether the lever for turning the roller be the screw for holding the broom, cap, and handle together, or whether it be a separate or removable lever, substantially as described.

WILLIAM B. MOORE.

Witnesses:

A. B. STOUGHTON,
EDM. F. BROWN.