

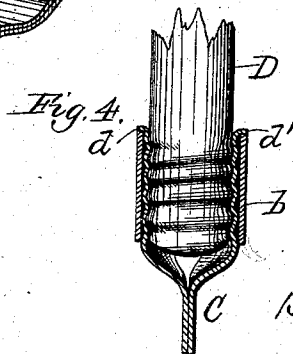
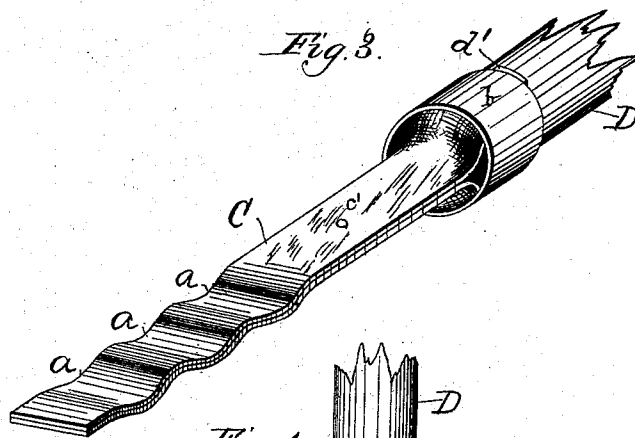
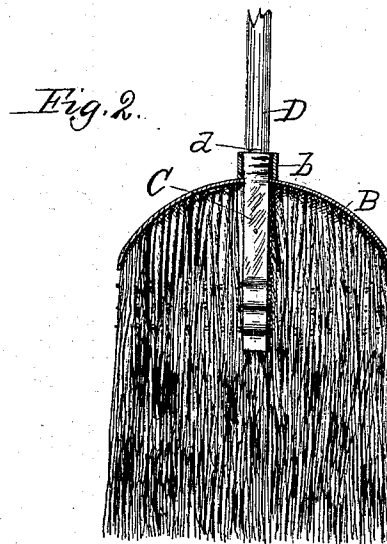
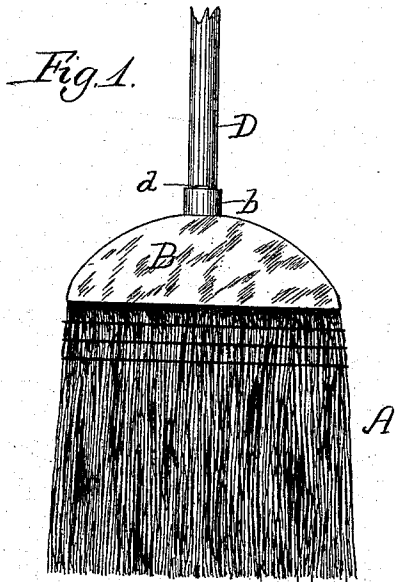
(No Model.)

R. W. HARPER.

BROOM.

No. 273,984.

Patented Mar. 13, 1883.



Witnesses:
C. C. Gaylord.
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Inventor:
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UNITED STATES PATENT OFFICE.

ROBERT W. HARPER, OF EVANSVILLE, INDIANA.

BROOM.

SPECIFICATION forming part of Letters Patent No. 273,984, dated March 13, 1883.

Application filed November 24, 1882. (No model.)

To all whom it may concern:

Be it known that I, ROBERT W. HARPER, of Evansville, county of Vanderburg, and State of Indiana, have invented certain new and useful Improvements in Brooms, of which the following is a full, clear, and exact description, that will enable others to understand and make use of the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, forming a part of this specification.

This invention relates more especially to improvements in the manufacture of the ordinary house sweeping-broom, the object being to so construct a broom that the shorter and finer fibers of the corn-straw may be utilized, and also so arranged that the handle can be readily detached from the broom proper.

Figure 1 is a side elevation; Fig. 2, a vertical section; Figs. 3 and 4, detached details of construction.

Referring to the drawings, A represents the broom proper, which is formed by taking the required amount of corn-straw or other suitable material and bundling the same together, with the butt-ends straight with the brush ends, which are covered and protected by the cap B. The broom is built up with the corrugated shank or stick C in the center. The broom is then pressed flat into the desired form at the butt-end, bound with wire, which passes over the shank or stick C, looped together at regular intervals, and woven in and out through different points in the bundle.

This form of construction presents a strong, serviceable, and durable article, and permits of the use of the finer and shorter fiber of the corn, which cannot be utilized when the butt-ends are bent inward and secured to a common center.

This form of binding, in connection with the corrugated shank or stick, the depressions in which are filled with the fiber in pressing, forms a very close firm structure, and securely holds the shank in the body of the broom.

The shank C, as herein shown, is composed of two distinct parts, which are riveted together near their longitudinal center, as shown in Fig. 3 of the drawings, *c'*. The lower end of this shank is corrugated or provided with, the depressions *a*, while the upper end is bifurcated and of a circular socket form. The inner surface of this bifurcated end is corrugated to receive the correspondingly-threaded end of the handle D, which arrangement permits of the handle being detached and the goods packed in a smaller compass. Instead of this threaded connection, these parts may be made slightly tapering and the handle driven or forced into place. These parts are strengthened and more firmly secured with relation to each other by means of the detachable ferrule *b*, which is placed on the shank C from below, and is prevented from passing up too far by the lips *d d'* on the bifurcated end of the shank C. The lower end of the shank C may be barbed as well as corrugated, should it be necessary.

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

1. The combination, with the broom A, of the detachable handle D, the shank C, having the lower end corrugated and the upper end bifurcated and of a socket form, provided with the lips *d d'* and the ferrule *b*, substantially as described.

2. The shank or stick C, constructed in two parts and riveted together near their longitudinal center, the lower end being corrugated and the upper end being of a circular socket form and provided with the lips *d d'* and the ferrule *b*, substantially as described.

ROBERT W. HARPER.

Witnesses:

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