

No. 833,766.

PATENTED OCT. 23, 1906.

C. WEANER.
BROOM.

APPLICATION FILED FEB. 11, 1905.

Fig. 1.

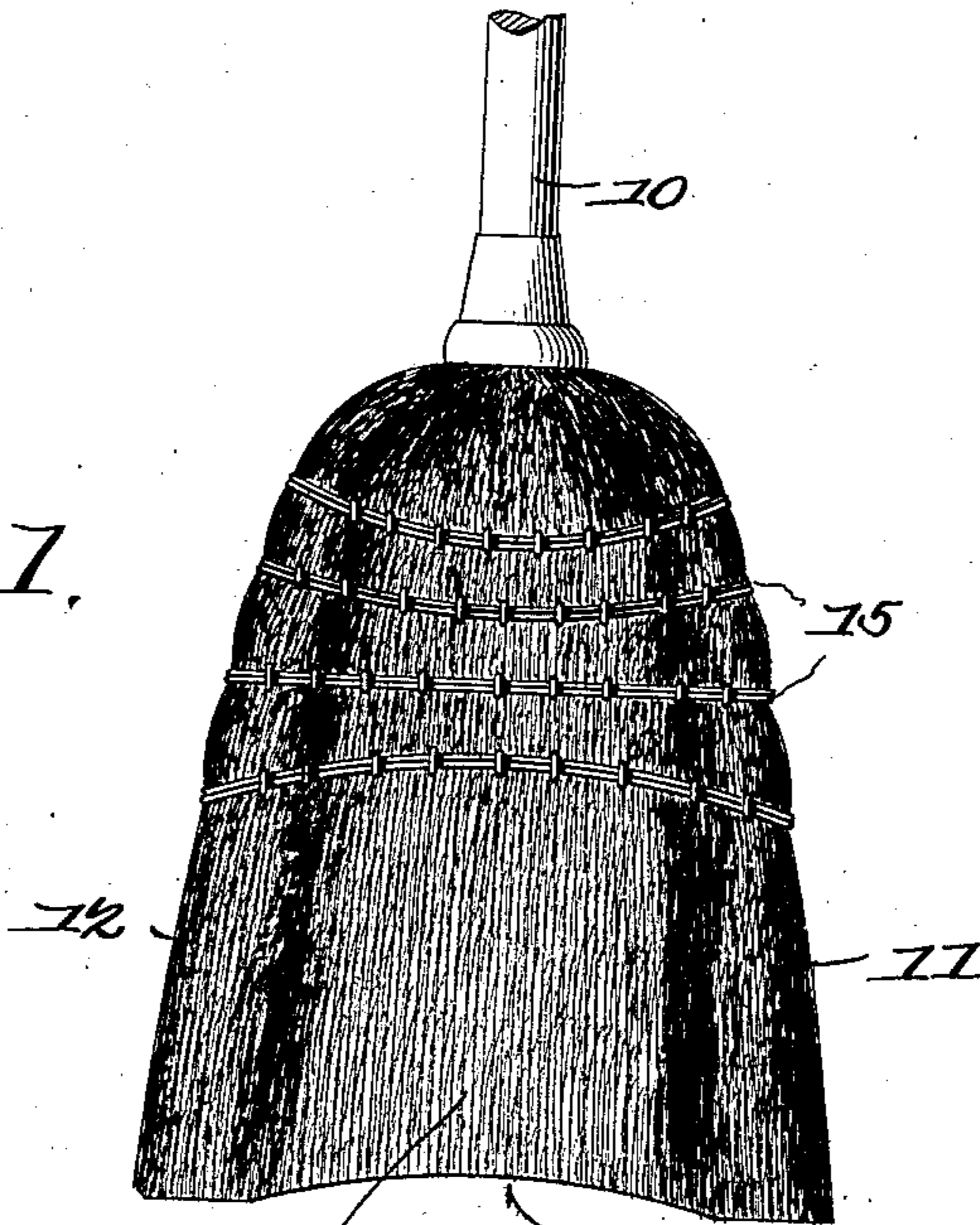


Fig. 2.

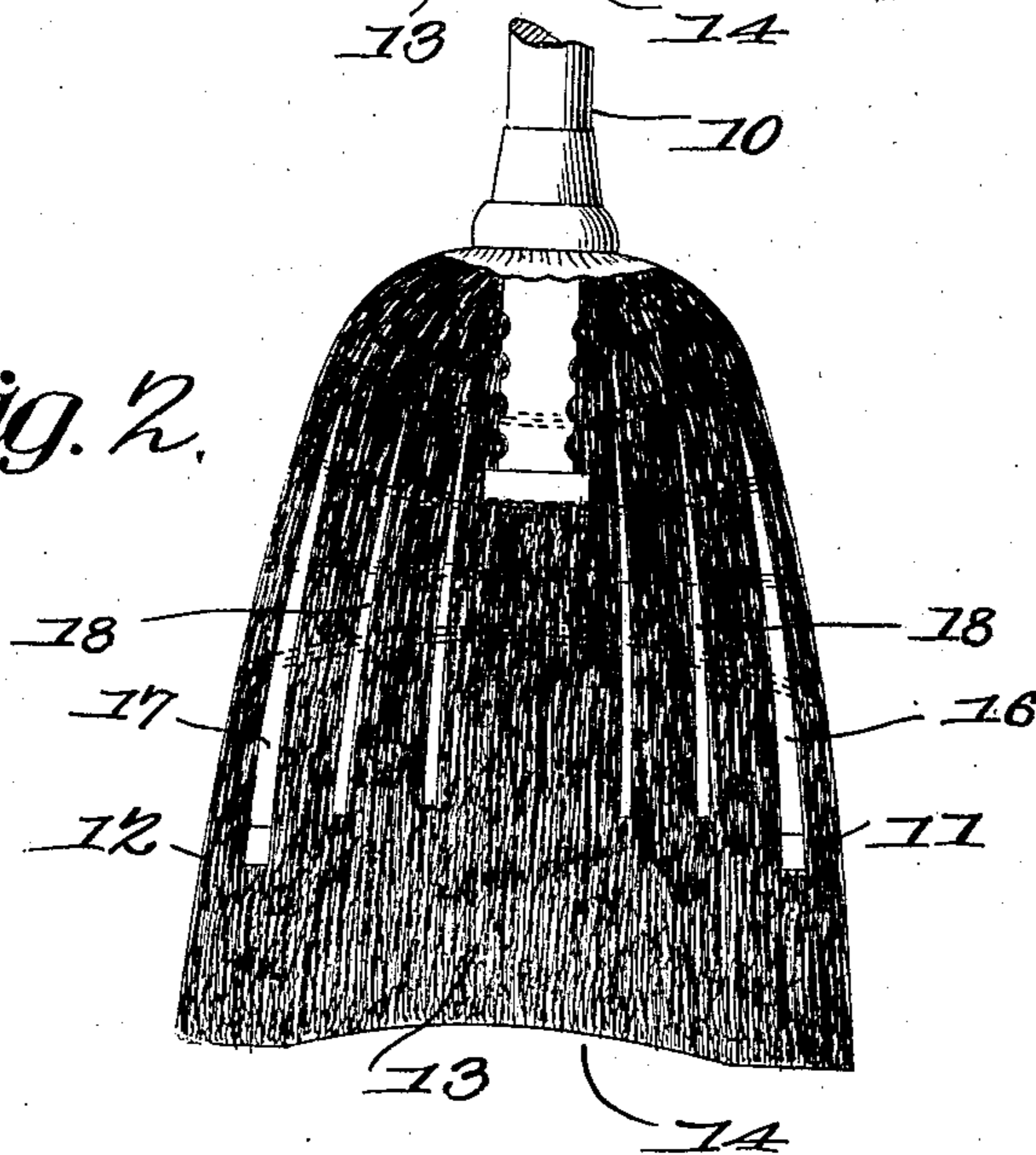
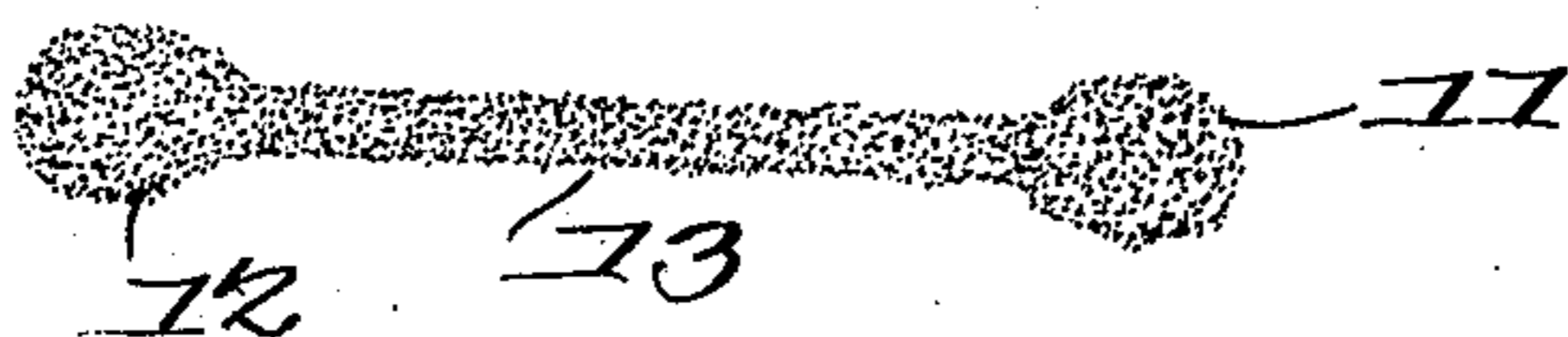


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

CORNELIUS WEANER, OF DEFIANCE, OHIO.

BROOM.

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Specification of Letters Patent.

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Application filed February 11, 1905. Serial No. 245,286.

To all whom it may concern:

Be it known that I, CORNELIUS WEANER, a citizen of the United States, residing at Defiance, in the county of Defiance and State of Ohio, have invented a new and useful Broom, of which the following is a specification.

This invention relates to improvements in brooms, and has for one of its objects to provide a simply-constructed device of this character having the side edges reinforced and of greater stiffness than the central portion, whereby the efficiency is increased and the action improved.

Another object of the invention is to provide a simply-constructed device of this character having the side edges reinforced and of greater thickness than the intermediate portion and with flexible reinforcing-strips tapering toward the upper end and disposed within the broom material and secured at one end and free at the other ends.

With these and other objects in view, which will appear as the nature of the invention is better understood, the invention consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of the embodiment of the invention capable of carrying the same into practical operation, it being understood that various changes in the form, proportion, and minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention within the scope of the appended claims.

In the drawings, Figure 1 is a side elevation of the "head" or sweeping portion of a broom embodying the improved construction. Fig. 2 is a sectional elevation of the same. Fig. 3 is a bottom plan view.

The improved implement comprises a handle 10 of the usual form, with the broom material so disposed thereon that the greater quantity is at the side edges or in the form of rolls, as at 11 12, leaving the intermediate portion 13 of less thickness than the side portion, as indicated more clearly in Fig. 3. The side portions of the broom thus offer a greater resistance to the force exerted by the operator and cause the broom to present a pocket-like surface at the forward face, and thus confine the sweepings and prevent them from being thrown laterally. To still fur-

ther improve the construction and improve the efficiency, the thinner intermediate portion 13 is cut in a convex or upwardly-curving line, as illustrated at 14 in Figs. 1 and 2, whereby the resistance of this portion of the broom is still further decreased and the tendency to throw the sweepings forward when the pressure is removed correspondingly decreased.

Any of the usual materials may be employed from which to construct the broom-head, such as broom-corn, tampico fiber, or the like; but preferably tampico fiber will be employed, as possessing important advantages for the purpose.

The lacings 15 are applied, preferably, as represented, with the intermediate lacings disposed substantially transverse to the longitudinal axis of the broom and with the upper lacings curving upwardly and the lower lacings curving downwardly. The enlarged rolls at the edges are thus more closely confined than the less bulky or thinner intermediate portions and added stiffness thereby imparted to the side edges. The stiffness of the enlarged side portions 11 and 12 is still further increased by forcing wooden or other suitable strips 16 17 therein, as shown in Fig. 2, and similar strips 18 are also forced into the intervening thinner portion 13 to increase the general stiffness of the structure, but not large enough to unduly decrease the flexibility of the intervening portion. The upper portions of the strips 16, 17, and 18 are tapered and retained in position by the lacings, leaving the lower portions free to move with the action of the broom material. The lower larger ends of strips 16, 17, and 18 stop short of the lower ends of the broom material, so that while they materially stiffen the structure and improve the action they do not affect the operation of the portion of the broom material below them.

Having thus described the invention, what is claimed as new is—

1. In a broom a longitudinally-extending handle, broom material attached around said handle, and depending therefrom and arranged in rolls at the sides and of greater thickness and less flexible than the intermediate portions and lacings securing the broom material between the handle and the sweeping end, said side rolls extending to the sweeping end of the broom.

2. A broom comprising a longitudinally-extending handle, and broom material at-

tached around said handle and depending therefrom, and resilient reinforcing-strips tapering toward the upper end and disposed within the broom-head and secured at the 5 smaller ends and with the larger ends spaced from the sweeping end of the broom-head.

3. A broom comprising a handle, broom material connected to the handle and arranged with greater thickness at the edges, 10 and reinforcing-strips of less flexibility than the broom material and tapering toward one

end and means for securing said reinforcing-strips at their smaller ends within the broom material with the larger ends spaced from the sweeping end of the broom.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CORNELIUS WEANER.

Witnesses:

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