A. BERGER.

BROOM.

APPLICATION FILED MAY 10, 1920.

1,375,813.

Patented Apr. 26, 1921.

Fig. 1.

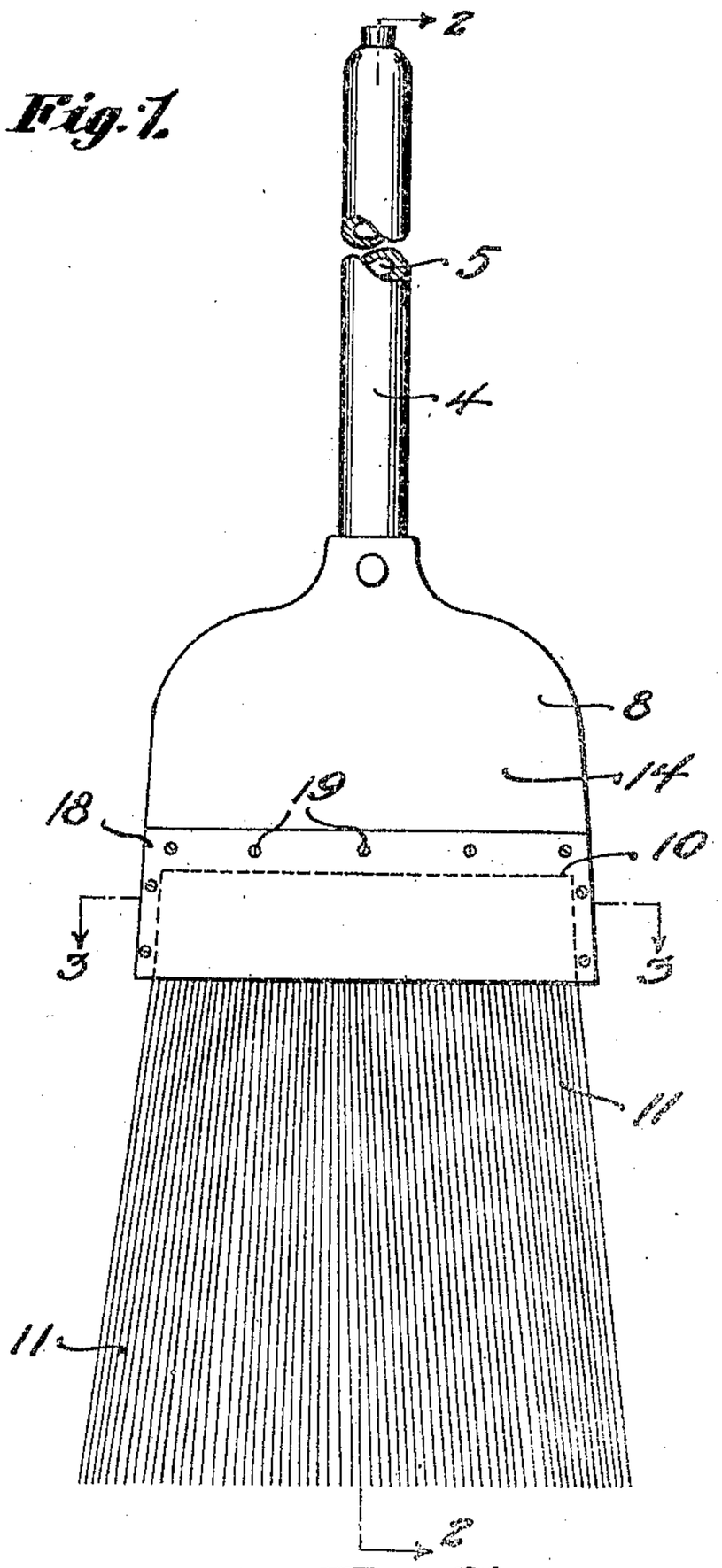


Fig. 2.

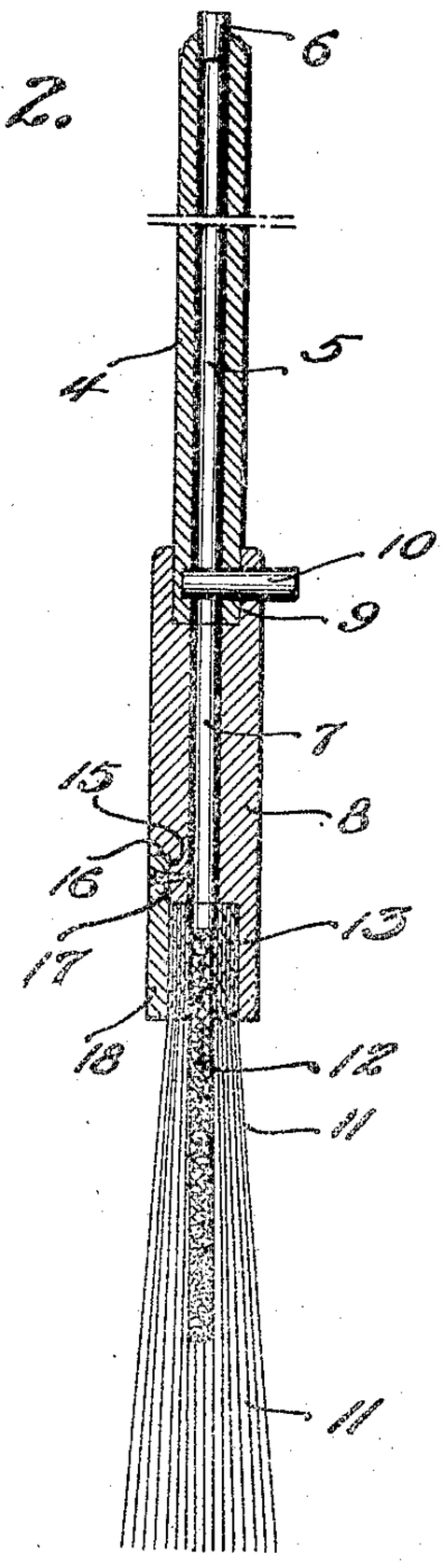
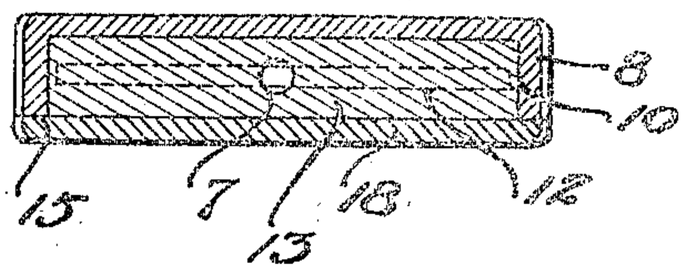


Fig. 3.



Witnesses
Geo. A. Gross
Augustus Bloss

Inventor
Adolf Berger
By Joshua R. H. Potts
His Attorney

UNITED STATES PATENT OFFICE.

ADOLF BERGER, OF PHILADELPHIA, PENNSYLVANIA.

BROOM.

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To all whom it may concern:

Be it known that I, ADOLF BERGER, a subject of Hungary, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Brooms, of which the following is a specification.

One object of my invention is to provide an improved broom which will be so constructed that the flexible floor-engaging portion thereof will be kept moist so as to prevent dust and dirt from flying around a room when the broom is in use.

Another object is to so construct my improved broom that said flexible portion thereof, which may consist principally of straw and cloth, can be quickly and easily inserted in the head of the broom in such manner that the individual straws can not easily work loose and if it is desired to substitute an entire new flexible portion, the same can be done easily and quickly without requiring that the remaining portion of the broom be thrown away.

These objects, and other advantageous ends which will be described hereinafter, I attain in the following manner, reference being had to the accompanying drawings in which—

Figure 1 is a front elevation of my improved broom,

Fig. 2 is a section taken on the line 2—2 of Fig. 1, and

Fig. 3 is a section taken on the line 3—3 of Fig. 1.

Referring to the drawings, 4 represents a hollow handle providing a channel 5 which extends therethrough throughout its entire length; said channel at the top being preferably covered by a stopper 6 so that water or other liquid, by removal of the stopper, can be inserted into the channel 5 so as to flow downwardly into a reservoir 7 formed in a head 8; the head 8 being preferably made of a width shown in Fig. 1 having a recess 9 into which the bottom of the handle 4 is secured in any suitable manner; a valve 10, which may consist merely of a plug projecting through the top of the head 8 and bottom portion of the handle 4, serving as a stop valve for permitting water to flow from the channel 5 into the reservoir 7. The bottom of the head 5 has a cavity 10 in which fits the upper part of the flexible floor-engaging or sweeping portion of the broom; said portion 11 preferably consisting of a pack of straws having a felt or other cloth core 12 embedded therein; the top part 13 of said flexible portion 11 preferably having the straws in adhesive connection with each other so as to render them compact. For example the part 13 may be formed by coating or dipping the straws in pitch so that they will adhere to each other at the part within the cavity 10 and so that the upper part of the cloth core 7 will be held in adhesive connection with the straw at a position within the head 8. It will be understood however that the upper part of the cloth 12 is not saturated throughout its entire width and thickness with the adhesive material but on the contrary is permitted to remain in its natural absorbent condition so that water within the reservoir will be absorbed by the part of the cloth core within the recess and will gradually find its way to a position below the head where the straws are free of each other.

The front face 14 of the head 8 is cut away to provide a recess 15 preferably extending entirely across the width of the head; said recess communicating with the cavity 10 at one side of the head 8 and preferably being formed to provide a shoulder 16 and ledge 17. The cavity 10 is of a width less than the width of the head 8 as shown in Fig. 1 and a plate 18 is fitted in the recess so as to engage the ledge 17 and to cover the side of the cavity 10. This plate abuts the surrounding ledge 17 and shoulder 16 and is secured thereto by screws 19. The part 13 of the flexible portion 11 is normally made thicker than the transverse depth of the cavity 10 so that when the part 13 is placed within the cavity 10 and the plate 18 is screwed in position within the recess 15, the part 13 of the flexible portion 11 will be slightly compressed due to the screwing action and in this manner the flexible sweeping portion 11 will be firmly secured to the head 8.

In use, the water from the reservoir 7 will flow downwardly and saturate the cloth core 12 and the moisture from this core 12 will be imparted to the various straws in the flexible portion and thereby serve in an

obvious manner during the intercepting action to prevent, to a great extent, dust from flying around a room which is being swept.

The head 8 may be made of any suitable solid material such as wood or it may be made of a molded composition of any suitable material.

In the claim I have used the word "straws." However it will be noted that said term is meant to employ any similar elongated elements out of which brooms or brushes can be made such for example as fibers, bristles or hair of any character.

While I have described my invention as taking a particular form, it will be understood that the various parts of my invention may be changed without departing from the spirit thereof, and hence I do not limit myself to the precise construction set forth, but consider that I am at liberty to make such changes and alterations as fairly come within the scope of the appended claim.

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

A broom of the character described including a head having a cavity and a passage providing a reservoir communicating with said cavity; and a flexible sweeping portion made up of straws in brush form having a flexible core member embedded therein, the upper part of said flexible portion including adhesive material for joining said straws together and to the outer portion of said core and being fitted within said cavity, said core being in communication with said reservoir whereby liquid from said reservoir will be absorbed by said core member; substantially as described.

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

ADOLF BERGER.

Witnesses:

ELIZABETH GORHE,

CHAS. E. POTTS.