

H. A. HANSON.
BRUSH.
APPLICATION FILED APR. 19, 1913.

1,057,639.

Patented Apr. 1, 1913

Fig. 1.

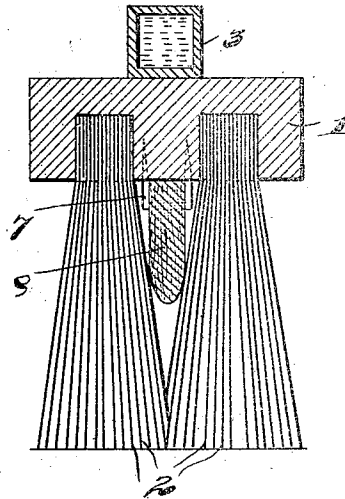
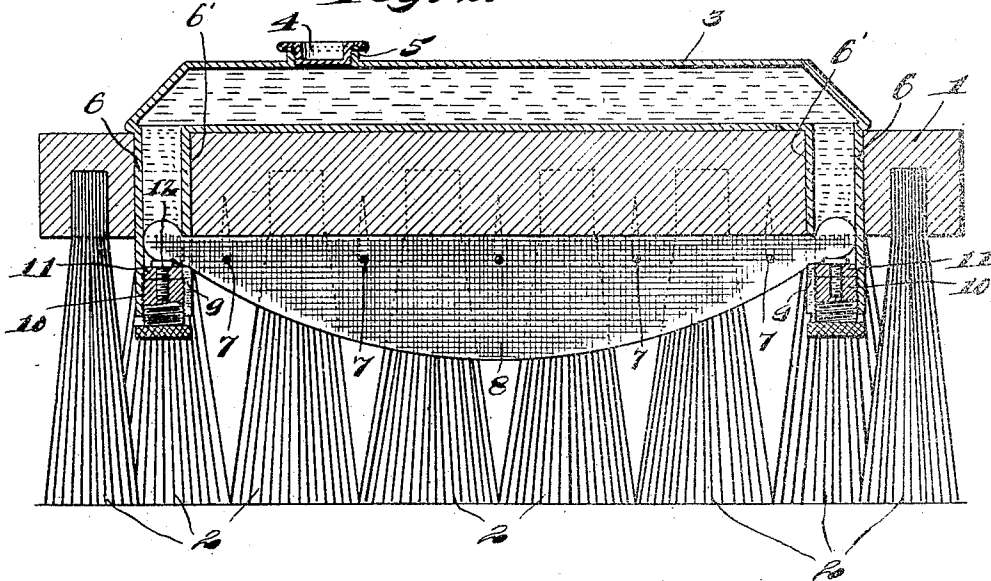


Fig. 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

HERMAN A. HANSON, OF CHICAGO, ILLINOIS.

BRUSH.

1,057,639.

Specification of Letters Patent.

Patented Apr. 1, 1913.

Application filed April 19, 1912. Serial No. 691,786.

To all whom it may concern:

Be it known that I, HERMAN A. HANSON, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Brushes, of which the following is a specification.

My invention relates to moistening devices for brushes and the like and has for its object the production of a brush moistener which will be of improved construction and efficient in operation.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a vertical transverse section of a brush equipped with a moistening device embodying my invention, and Fig. 2 is a vertical longitudinal section of the construction shown in Fig. 1.

The preferred form of construction, as illustrated in the drawing comprises a brush consisting of a back 1 which is elongated, rectangular in form, bristles 2 being secured to the under side of said back 1 in any well known manner.

Mounted upon the upper side of the back 1 is an elongated liquid tank 3, the upper side of said tank being provided with a screw threaded filling plug 4 through which access may be gained to the interior of the tank to fill, or empty the same. A packing 5 coöperates with the plug 4 to insure a tight connection and prevent leakage. Depending from the ends of the tank 3 are tubes 6 which pass through perforations 6' provided in the ends of back 1.

Secured by means of staples or other suitable securing devices 7 upon the under side of the back 1 is a strip 8 of absorbent material, felt being preferably used in this connection. The respective ends of the strip 8 project through slots 9 formed in the lower ends of the tubes 6, said strip ends being clamped in position in said slots by means of screw plugs 10 which are threaded in the lower ends of said tubes, as clearly shown in Fig. 2. Leakage from the tubes past the plugs 10 is prevented by means of packing disks 11 formed preferably of cork which fit snugly within said tubes, said disks

being secured by means of screws 12 upon the inner ends of said plugs.

With the arrangement set forth, it will be seen, that the liquid contained in the tank 3 will drain from the latter through the tubes 6 whence the same will be absorbed by the ends of the strip 8, passing through the latter by reason of the absorbing qualities of the strip, or by reason of capillary attraction. Through the adjustment of the plugs 10 it will be seen that the flow of liquid from the pipes 6 through the ends of the strip 8 may be regulated, loosening of said strip ends by said plugs permitting of a greater flow of liquid therethrough and tightening of said screws to more securely clamp the strip ends restricting the flow through the latter. The moisture absorbed by the strip 8 is conveyed to the bristles by contact of the latter with said strip, flexing of said bristles causing the compression of said strip which facilitates the transfer of moisture onto the bristles, and so that the supply of moisture to said bristles will be automatically controlled, the supply of moisture to the bristles being increased when the brush is in use.

The moistening of the bristles of the brush causes the moistening of the dust into contact with which the bristles are brought and so that when the brush is in use the flying of dust about the room will be prevented.

A moistening device of the construction set forth may be installed in a brush simultaneously with the manufacture thereof, or the same may be attached to a brush already in use by simply forming openings 6' in the back for the reception of pipes 6.

While I have illustrated and described the preferred form of construction for carrying my invention into effect this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims, and although I have shown my device applied to a brush it is understood that the same may as readily be applied to a broom or like device, if desired.

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

1. In a brush moistener, the combination

with a brush comprising a back and bristles secured in and projecting from said back, of an elongated liquid tank at the upper side of said back; tubes depending from the terminals of said tank to a position between said bristles; a strip of absorbent material arranged between said bristles, the ends of said strip passing through slots provided in said tubes into the interiors of the latter; and means at the lower ends of said tubes for adjustably securing said strip ends in said slots, substantially as described.

2. In a brush moistener, the combination with a brush comprising a back and bristles secured in and projecting from said back, of a liquid tank mounted on said back; depending tubes at the ends of said brush leading from said tank to a position between

said bristles; a strip of absorbent material arranged between said bristles, the ends of said strip engaging slots formed in the lower ends of said tubes; plugs threaded in said ends of said tubes adapted to clamp said strip ends in said slots and to control the flow of liquid through said slots; and means provided at the inner ends of said plugs for engagement with the inner surfaces of said tubes to prevent leakage, substantially as described.

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

HERMAN A. HANSON.

Witnesses:

JOSHUA R. H. POTTS,
ARTHUR A. OLSON.