

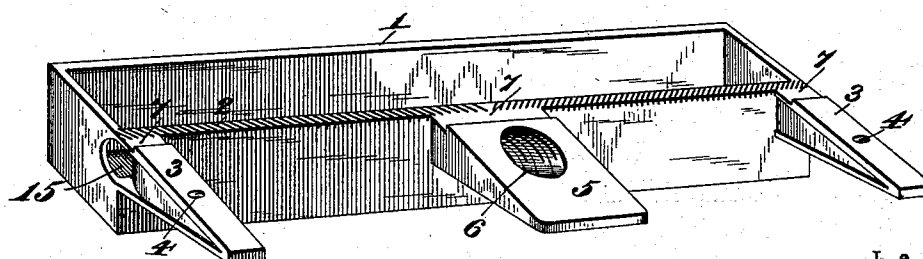
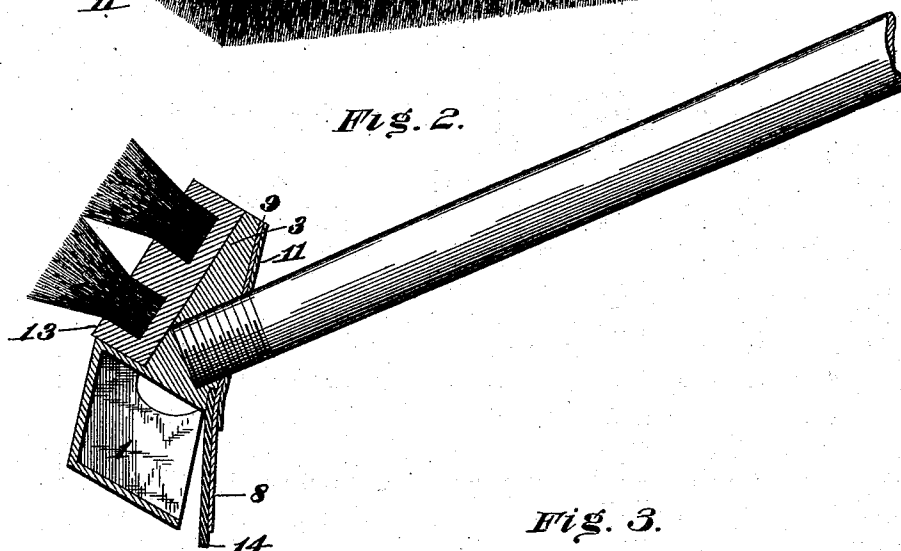
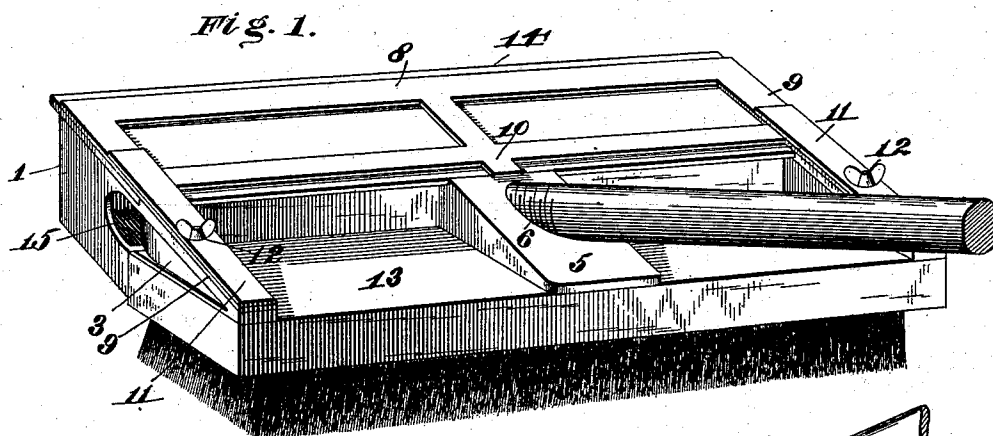
(No Model.)

J. S. McGUIRE & J. B. BEEMER.

DRYING ATTACHMENT FOR SCRUBBING BRUSHES.

No. 503,668.

Patented Aug. 22, 1893.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN STIRLING MCGUIRE AND JOHN BENJAMIN BEEMER, OF EAST TAWAS,
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DRYING ATTACHMENT FOR SCRUBBING-BRUSHES.

SPECIFICATION forming part of Letters Patent No. 503,668, dated August 22, 1893.

Application filed November 30, 1892. Serial No. 453,649. (No model.)

To all whom it may concern:

Be it known that we, JOHN STIRLING MCGUIRE and JOHN BENJAMIN BEEMER, citizens of the United States, residing at East Tawas, in the county of Iosco and State of Michigan, have invented a new and useful Drying Attachment for Scrubbing-Brushes, of which the following is a specification.

Our invention relates to improvements in drying attachments for scrubbing-brushes; the objects in view being to provide an attachment capable of being readily applied to any of the ordinary forms of scrubbing-brushes; to be so constructed as to collect the water or moisture upon the surface scrubbed by a movement of the device away from the operator, thus preventing wetting the feet of the operator; to provide for an adjustment of the rubber drying-strip, and for conveniently securing the same in position upon the device.

With these objects in view the invention consists in certain features of construction hereinafter specified and particularly pointed out in the claims.

Referring to the drawings:—Figure 1 is a perspective view of a scrubbing-brush provided with an attachment constructed in accordance with our invention. Fig. 2 is a transverse section of the same, the brush being inverted so as to bring the drying attachment into operative position. Fig. 3 is a detail in perspective of the attachment, the rubber strip and spring-plate being removed.

Like numerals of reference indicate like parts in all the figures of the drawings.

In constructing the attachment we prefer to form the same of malleable cast-iron, and it consists of a water-box 1, oblong, and of a length about agreeing with that of the brush. The front wall of the water-box is inclined or slanting with relation to the bottom, and the rear wall at its lower edge is provided with a series of serrations or corrugations 2. From the rear wall there extends in a rearward direction and from the ends thereof arms 3 formed integral with the box and inclined or tapered toward their outer ends. These arms are provided with perforations 4 threaded for the reception of screws. From the rear wall at the center thereof and near the lower edge

there extends rearward a block 5, and the same is provided upon its under side with an inclined, threaded socket 6, the top of the block being in the same plane with the top surfaces of the arms 3. The under side of the block and those of the arms 3 are cut away at their forward ends so as to form recesses 7 occurring immediately in rear of the corrugations 2.

8 designates a spring clamping-plate, and the same is provided at its extremities with rearwardly extending spring-arms 9 corresponding to the arms 3, the remaining portion of the plate approximating in shape the box 1 when viewed in bottom plan. From the center of the plate at the rear edge thereof there extends a finger 10 that corresponds to the arms 9 of the plate, the same resting in the recess formed in the under side of the block 5. Spring strips or leaves 11 are located under the arms 9 of the plate 8, and thumb screws 12 pass through perforations in the strips, the arms 9, through the metal arms 3, and into the back of an ordinary scrubbing-brush 13.

Interposed between the upper side of the plate 8 and the lower edges of the box and having its rear edge seated in the recesses 7 formed in the block 5 and arms 3 is a rubber-strip 14, the same being clamped in position through the medium of the plate reinforced by the spring-strips 11 and bound by the screw-eyes 12. This completes the construction of the attachment, whose operation, though obvious, we will describe as follows:

In scrubbing the box is inverted, as is usual, the brush being employed in the ordinary manner, and when it is desired to dry the surface scrubbed the brush is inverted, bringing the rubber strip against the wet surface by pushing the brush from the operator, the pressure against the rubber strip serves to yieldingly press backward the spring-plate, and the water is thus admitted or collected in front of the rubber strip which opens, or being forced away from the box permits access of the water into the box, and as soon as the pressure is removed from the brush the spring-plate reinforced by the springs 11 serves to snap the rubber back upon the box, thus form-

ing a water-tight cover therefor. An opening 15 is formed in one end of the box adjacent to the arm 3 at that end and by tilting the brush and box the water may be expelled into any suitable waiting receptacle. The handle 16 is threaded into the socket of the block 5 in a removable manner, and the box being detachable, it will be readily seen that the brush may be used either with or without the attachment and handle, that is as an ordinary hand-brush. On the other hand, it will be seen that it serves as a convenient brush and drier when the attachment is in position and the handle being disposed at an angle serves its useful function regardless of whether or not the brush is used as a brush or as a drier or as a combined brush and drier. The device is also useful in cleaning windows, the same operation taking place as when cleaning floors and other horizontal surfaces. As the rubber wears away, which it will in time, a slight relaxation of the screws will permit of an adjustment of the rubber, that is a drawing of the same outward whereby its edge extends slightly beyond that of the box, and the same may be clamped again in position by a resetting of the screws. If desired, or preferred, the spring-strips may be omitted, though we prefer to use the same as they retain in position the spring-arms formed on the plate 8 and thus permit us to use lighter metal in the manufacture of the plate. The corrugations in the under side of the back wall of the box also aid materially in a retention of the rubber strip in operative position.

Having described our invention, what we claim is—

1. The herein described attachment for scrubbing-brushes consisting of the metal box provided at its rear wall with rearwardly-extending arms, a spring-plate located upon the under side of the box and having arms

approximating those of the box, a handle-socket, retaining-screws passed through the spring-arms, the box-arms, and adapted to enter the brush, and a rubber-strip clamped by the plate against the under edge of the box, substantially as specified.

2. The combination with a scrubbing-brush, of the malleable cast-metal box provided at its ends with rearwardly-disposed arms, and a central block having a socket for receiving a handle, said arms and socket-block being provided at their front ends and upon their under sides with recesses and the under edge of the rear wall of the box being corrugated, a metal plate secured removably to the under sides of the arms and extending under the box, and a rubber-strip interposed between the plate and having its rear edge lying in the recesses of the arms and block, substantially as specified.

3. The combination with a scrubbing-brush, of an oblong malleable cast-iron box having an opening at one end and an open lower side, the rear wall of the box being provided with rearwardly-extending arms, and a central handle-receiving block, a metal plate located upon the under side of the box and having arms corresponding to those of the box, spring-leaves located under the arms of the plate, screws passed through the leaves, arms of the plate, arms of the box, and into the brush, and a rubber-strip interposed between the plate and lower edge of the rear wall of the box, substantially as specified.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

JNO. STIRLING MCGUIRE.
JOHN BENJAMIN BEEMER.

Witnesses:

CORA L. BEARINGER,
CHAS. GARDNER.