No. 621,936. Patented Mar. 28, 1899.

F. W. NEVIUS.

FOUNTAIN SCRUBBER.

(Application filed May 18, 1898.)

(No Model.)

Fig. 1.

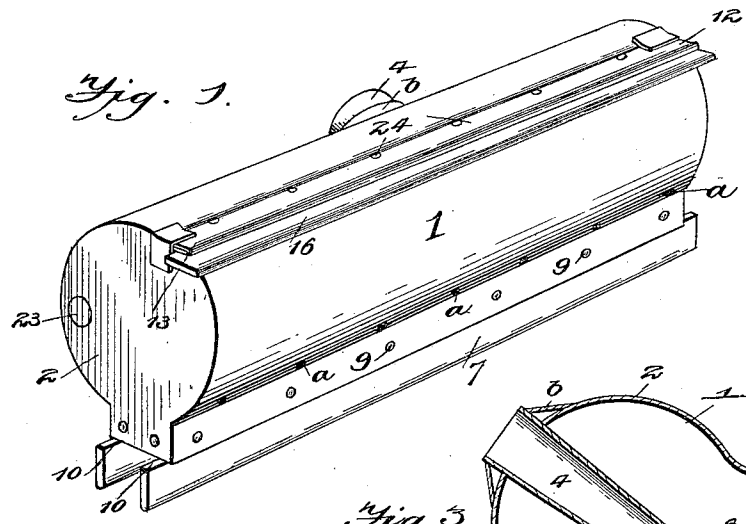


Fig. 3.

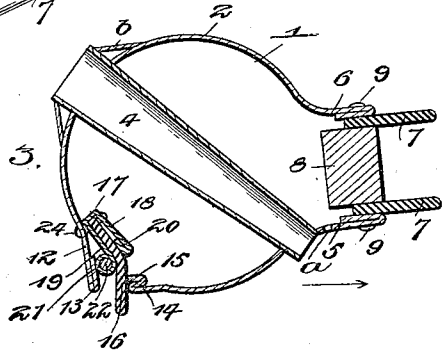


Fig. 2.

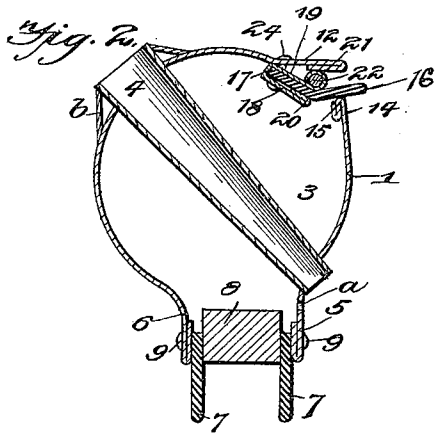
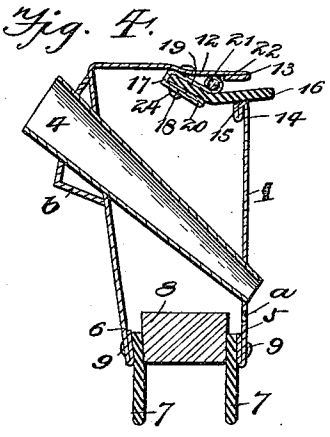


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

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FOUNTAIN-SCRUBBER.

SPECIFICATION forming part of Letters Patent No. 621,936, dated March 28, 1899.

Application filed May 18, 1898. Serial No. 681,054. (No model.)

To all whom it may concern:

Be it known that I, FRAZIER W. NEVIUS, a citizen of the United States, residing at Fort Madison, in the county of Lee and State of Iowa, have invented certain new and useful Improvements in Fountain-Scrubbers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in fountain-scrubbers; and the object is to simplify and improve the construction, and thereby provide an effective device of this character for not only scrubbing the floor, but also to provide a means for taking up and removing the soiled water from the floor in a simple, effective, and expeditious manner.

To this end the invention consists in the construction, combination, and arrangement of the several parts of the device, as will be hereinafter more fully described, and particularly pointed out in the claim.

The accompanying drawings show my invention in the best form now known to me; but many changes in the details might be made within the skill of a good mechanic without departing from the spirit of my invention as set set forth in the claim at the end of this specification.

The same reference characters indicate the same parts of the invention.

Figure 1 is a perspective view of my improved fountain-scrubber. Fig. 2 is a transverse section of the same. Fig. 3 is a similar view showing the device in use as a take-up for removing the water from the floor. Fig. 4 is a similar view showing another form of the fountain-case.

1 denotes the approximately cylindrical fountain-case, closed at both ends 2 3, and 4 denotes the open-ended tapering handle-socket, in which a handle (not shown) is detachably secured. The opposite walls of the casing terminate on one side in longitudinal parallel flanges 5 and 6, separated a sufficient distance to receive the flexible scrubber-strips 7 7 and the intermediate supporting-bar 8, the whole being firmly secured between the said flanges by the securing-nails 9 9, which extend through said flanges 5 and 6, the rubber or other similar elastic or flexible strips 7 7, and the bar 8. It will be seen that the outer ends 10 10 of the rubber strips project beyond the end walls 2 3 of the fountain 1 to act as guards or protectors for the device to prevent the metal fountain from coming into contact with and defacing the painted work or furniture in a room.

12 denotes a similar longitudinal flange formed on the opposite side of the fountain-case and at approximately a right angle to the flanges 5 and 6, and its outer end is turned inwardly and rearwardly parallel with the body portion to form the reinforcing-head 13. Another longitudinal flange 14 is formed on the opposite wall parallel with and having its body portion extending at a right angle to the flange 12, and its free end is turned under to form the reinforcing-head 15.

16 represents a longitudinal flexible rubber strip, which is encompassed along its inner edge by the longitudinal guide-shoe 17, formed with the parallel walls 18 19, the outer end or edge of the wall 18 being formed with the reinforcing-head 20 and the outer end of the wall 19 with a cylindrical head 21, which encompasses the stay or brace rod 22 and which extends a short distance in advance of the opposite head 20 to form a fixed fulcrum or backing for the rubber strip 16 to hold its free end with considerable pressure against the edge of the flange 14 and normally retain the water in the fountain-case.

a a denote a series of small orifices in the fountain-case arranged parallel with the scrubber-strips, so that when the cylinder or case is dipped in the scrub-water it fills through the orifice 23 in the end of the case, and when the two rubber scrapers 7 7 are placed on the floor the water feeds out through these small orifices *a a* just above the rubbers and furnishes the water to the scrapers, thus distributing the water as the scrapers do the scrubbing. The socket or thimble is strengthened by a suitable collar-brace *b*, as shown. It will also be noted that the free edge of the take-up rubber 16 projects a short distance beyond the outer face of the flange, so as to come in contact with the surface of the floor without the flange itself touching the floor, and, as shown in Fig. 3, when the rubber 16 is in contact with the floor and a sufficient pressure applied and the device

carried forward in the direction of the horizontal arrow the rubber bends away from the flange 14 and also acts as a barrier or dam for the water to wall up against, and consequently its inertia carries the water over into the fountain-case, and when the forward pressure is removed from the rubber it automatically springs backward against the edge of the flange 14 with a valve-like action and seals the water in the case, which may then be discharged through the outlet-orifice 23 in the end 3. By repeating this operation over the same surface a few times the entire amount of surplus water may be removed and the floor left comparatively dry.

24 24 denote the rivets which secure the guide-shoe 17 and strip 16 in place.

I have shown the fountain-case as approximately cylindrical in Figs. 1, 2, and 3 and rectangular in cross-section in Fig. 4; but I do not desire to confine myself to either conformation, as it is evident that a hollow case of almost any shape will answer the purpose.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

A fountain rubber and take-up combined, consisting of the casing formed with the flanges 12 and 14 arranged at right angles to each other and the parallel flanges 5 and 6 arranged at a right angle to said flange 12, the guide-shoe 17 fixed to the flange 12, the rubber strip 16 fixed in said shoe and having its free end normally abutting against said flange 14, and the rubber strips 7 7 fixed between the flanges 5 6, substantially as shown and described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FRAZIER W. NEVIUS.

Witnesses:
H. H. WELLS,
W. F. LA FOLLETTE.