(No Model.)

B. F. C. GRIMES.

SCRUBBING BRUSH.

No. 589,171. Patented Aug. 31, 1897.

Fig. 1.

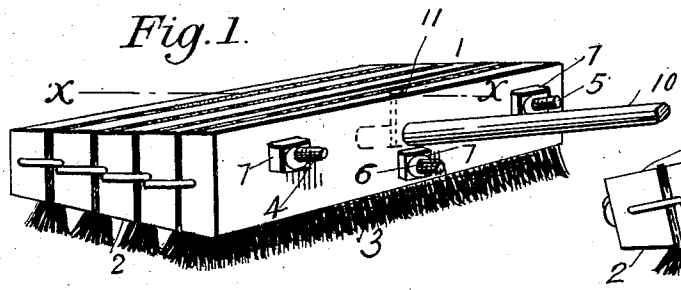


Fig. 2.

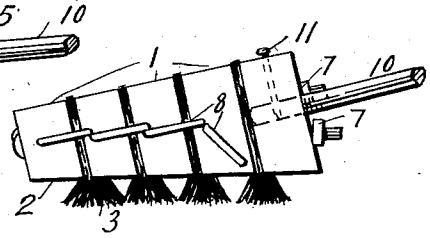


Fig. 4.

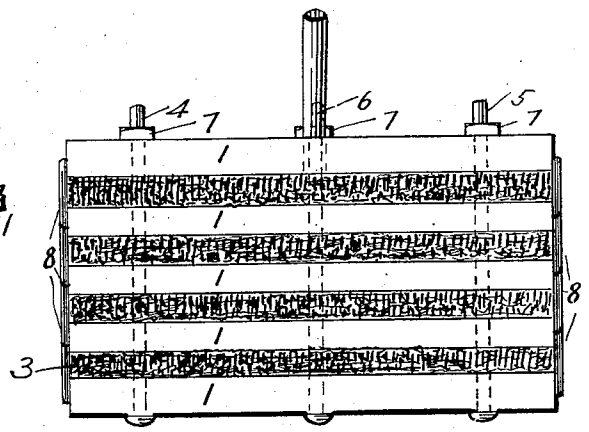


Fig. 3.

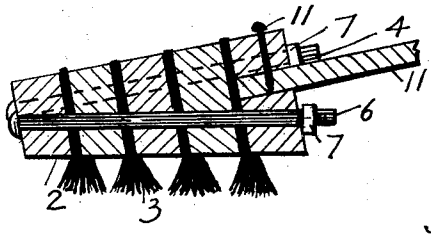
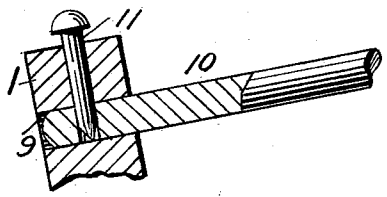


Fig. 5



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

BENJAMIN F. C. GRIMES, OF WALNUT GROVE, MISSISSIPPI.

SCRUBBING-BRUSH.

SPECIFICATION forming part of Letters Patent No. 589,171, dated August 31, 1897.

Application filed January 20, 1897. Serial No. 619,860. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN F. C. GRIMES, a citizen of the United States, residing at Walnut Grove, in the county of Leake and State of Mississippi, have invented certain new and useful Improvements in Scrubbing-Brushes; and I do hereby 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 scrubbing-brushes.

My object is to provide a brush body or holder which will be of extremely simple and cheap construction and adapted for ready adjustment, so that brushing or scrubbing material can be readily clamped therein and securely held in place.

A further object is to provide a brush body or holder which will be of extremely durable construction, together with clamping and retaining means of novel construction and arrangement, whereby the brushing or scrubbing material can be held in the frame and all tendency of the latter to warp or spread, owing to the action of hot water, will be satisfactorily prevented.

A further object is to provide a frame or holder and a detachable handle connected together in an improved manner and so related that the brush can be easily manipulated, said holder being of such peculiar construction that whenever the scrubbing material has become worn through use it can be readily and cheaply replaced.

Having the foregoing and other minor objects in view, the present invention consists of a scrubbing-brush comprising certain improved features and novel combinations and arrangements of parts appearing more in detail hereinafter.

In the accompanying drawings, Figure 1 is a perspective view of my improved device; Fig. 2, an end view with one of the retainers thrown back; Fig. 3, a sectional view taken on the line *x x* of Fig. 1; Fig. 4, a bottom view, and Fig. 5 a detail view, of the novel connection between the handle and the brush.

The numerals 1 designate a number of clamping-strips which are preferably constructed of some hard wood for the purpose of strength, durability, and lightness. It will be seen that the lower edges of these strips are beveled, as at 2. The strips vary in width from the outermost one at one side of the brush to the outermost one on the other side. This arrangement is adapted to give the brush a proper inclination, so that it can be easily operated.

The scrubbing material is shown at 3. It can be of any preferred material, such as corn-husks, jute-bagging, fertilizer-sacks, or, in fact, any substance that is adapted for the purpose. This material is located between the strips and is so disposed that its lower or scrubbing face is inclined the same as the beveled edges. Three bolts 4, 5, and 6 are used, the same passing through all the strips and serving to hold the scrubbing material in position.

It will be observed that the bolts 4 and 5 run through the center of the rear strip, or the narrower one, and the tops of the remaining strips, so that the top portions of the strips are tightly secured together and the scrubbing material securely held at this point. The bolt 6, however, is inclined downwardly, so that it extends through the bottom portions of the strips, this being so disposed for the reason that there is a tendency for the lower edge of the strips, and particularly the broadest one, to become warped after the brush has been used with hot water for a number of times. Nuts 7 are used on all the bolts. By loosening the nuts the strips can be separated and the material introduced between them, and after said nuts are properly tightened the material will be properly secured.

In order to prevent longitudinal displacement of the scrubbing material, I provide retaining-catches 8, which are of L shape, the same having one leg received in the end of a strip and the other leg extending across the outer end of the scrubbing material, one or more retainers being employed for each strip and these retainers being located at each end of the brush. An opening 9 is made in the broadest strip, and this is adapted to receive the end of the handle 10.

The numeral 11 designates a pin or bolt which is passed down through the outermost or broad strip and into an opening 12 in the handle. It will thus be seen that by elevating the pin the handle can be removed.

Owing to the construction of the brush it can be easily operated, and the same is of such durable construction that it is adapted to last an indefinite period of time.

There are many slight changes which might be resorted to in carrying out the invention without detracting from any of the advantages thereof, and hence I consider myself entitled to all such changes as properly come within the scope and spirit of the invention.

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

1. In a scrubbing-brush, the combination with clamping-strips, of scrubbing material located therebetween, means for securing the clamping-strips and scrubbing material, and independent catches or retainers pivoted to one strip and having a free portion adapted to be swung across to the other strip at the ends of the said strips.

2. In a scrubbing-brush, the combination with clamping-strips, of scrubbing material located therebetween, means for holding the strips and scrubbing material together, and independent L-shaped catches located at the outer ends of the clamping-strips and having one leg pivotally received in one strip and the other leg free and adapted to be extended across the scrubbing material and rested against the other clamping-strip.

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

BENJAMIN F. C. GRIMES.

Witnesses:
O. H. BARNETT,
J. J. SUMMERS.