

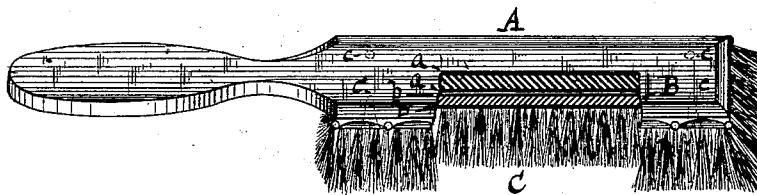
(No Model.)

L. STONE.

BRUSH.

No. 268,052.

Patented Nov. 28, 1882.



WITNESSES:

*Wm. A. M. Hallatt*

*Warren A. Stone*

INVENTOR:

*Lawrence Stone*

# UNITED STATES PATENT OFFICE.

LORENZO STONE, OF PROVIDENCE, RHODE ISLAND.

## BRUSH.

SPECIFICATION forming part of Letters Patent No. 268,052, dated November 28, 1882.

Application filed November 22, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, LORENZO STONE, of the city and county of Providence, in the State of Rhode Island, have invented a new and useful Improvement in Brushes; and I do hereby declare the following to be a specification thereof, reference being had to the accompanying drawing:

The drawing is a perspective view of my improved brush, with a portion of the back and block cut away to show the water-proof coating of their interior surfaces.

My invention relates to the construction of toilet-brushes; and it consists in a brush having a wooden bristle-block, back, and handle, the bristle-block being detachably secured to the back, and the inner and outer surfaces of said back and block protected and rendered impervious to the action of water by a coating of water-proof material, as hereinafter more fully described and claimed.

Toilet-brushes of wood as usually constructed have either no protection against the effects of continued wetting, or have only the outside of the back protected from the action of water. The wooden block, or part to which the bristles are affixed, has its upper surface left in a rough condition, while the under side of the wooden back is also in a rough state. These two surfaces are ordinarily united by glue, forming a seam at their junction. Repeated exposure to water causes the seam to open and widen as the glue gradually dissolves, and the parts thus separated warp out of shape. These objections are overcome and the brush rendered more durable by coating the interior surfaces of the wooden back and block, as well as their exterior surfaces, with a suitable water-proof substance, and then uniting the parts by means of screws. The parts, being thus rendered impervious to water, and united without the intervention of glue, are prevented from separating even when continually wetted in use, and all liability of warping or curling of the wood is obviated.

Referring to the brush illustrated in the drawing, the back A is composed of wood, and has a coating, *a a*, of japan, enamel, or other water-proof material upon its inner and outer surfaces, while the block B, which is also composed of wood has a water-proof coating, *b b*, of varnish or gum-shellac upon its corresponding surfaces. When the bristles C are inserted

through the block B and secured by wires, as usual, I find it useful to employ an additional coating of varnish or shellac to thoroughly fill the holes and cover the wires. The two parts are preferably united by screws *c c*, and however much exposed to water they cannot separate or warp, because their surfaces are fully protected from moisture.

It will be seen that by dispensing with the use of glue and uniting the back A and block B by means of screws or equivalent devices the bristle-block is rendered detachable, so that when the bristles become worn or soiled by simply removing the screws the bristle-block can be readily detached and a new one put in its place at a trifling cost, thus allowing the continued use of the brush-back.

I am aware that a detachable bristle-block is not new, and therefore I do not claim the same, broadly.

I am also aware that brushes having composition backs and bristle-holders have been long in use, and that such brushes are adapted to resist the effects of moisture. Celluloid, india-rubber, and like materials have also been employed for the backs of brushes. These substances are often objectionable, however, on account of their weight, expense, and odor.

I am also aware that a composition bristle-holder has been detachably connected to a wooden back by means of screws. My invention differs from this and others referred to, in that both the back and block of my brush are entirely composed of wood, and are protected from moisture by a coating of water-proof material on their inner as well as their outer surfaces. The advantages of such a brush for toilet purposes are its lightness and inexpensiveness, while its durability as compared with ordinary wooden brushes is greatly increased.

What I claim as my invention is—

The improved toilet-brush herein described, consisting of the wooden back A, the wooden bristle-block B, and the bristles C, said back and block being detachably connected and having a water-proof coating upon both their inner and outer surfaces, substantially as and for the purpose set forth.

LORENZO STONE.

Witnesses:

WARREN R. PERCE,  
WM. B. W. HALLETT.