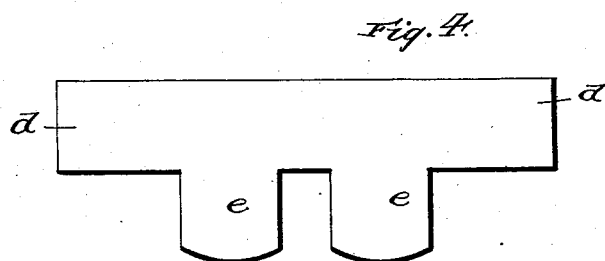
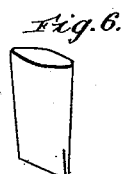
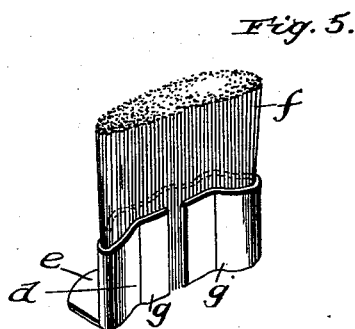
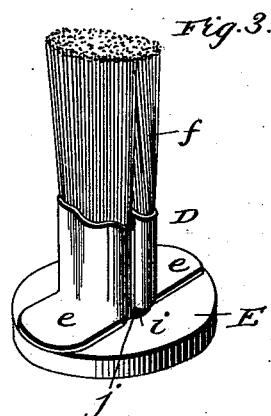
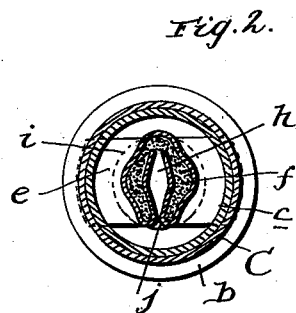
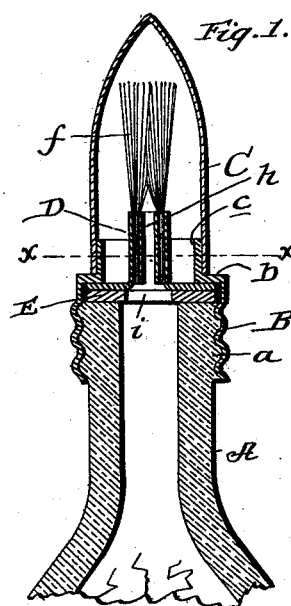


(No Model.)

J. A. SAMPSELL.
BRUSH.

No. 522,535.

Patented July 3, 1894.



Witnesses:

C. H. Raeder
W. F. Matthews

Inventor

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UNITED STATES PATENT OFFICE.

JAMES A. SAMPSELL, OF NEW ORLEANS, LOUISIANA.

BRUSH.

SPECIFICATION forming part of Letters Patent No. 522,535, dated July 3, 1894.

Application filed March 17, 1894. Serial No. 504,022. (No model.)

To all whom it may concern:

Be it known that I, JAMES A. SAMPSELL, a citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented certain new and useful Improvements in Brushes; 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 brushes for mucilage holders or bottles and other purposes, and it has for its general object to provide such a holder or bottle with a discharge nozzle which serves the additional function of a head for the bristles of a brush, whereby when the holder is inverted and the brush wielded, the mucilage or other liquid or semi-liquid will flow through the brush and onto the article to be pasted.

Another object of the invention is to provide a mucilage holder or bottle with means whereby it may be rendered air-tight when not in use so as to prevent the mucilage from drying up, and still another object is to provide a combined discharge nozzle and brush head, which will permit of the employment of a removable plug designed to prevent the mucilage from passing from the holder into the brush when the holder is packed for shipment.

With the foregoing and other ends in view the invention will be fully understood from the following description and claims when taken in connection with the annexed drawings, in which—

Figure 1, is a vertical, diametrical section of my improved mucilage holder, with the removable cap in its operative position. Fig. 2, is an enlarged transverse section taken in the plane indicated by the line *x, x*, of Fig. 1. Fig. 3, is an enlarged perspective view of the combined brush head and discharge nozzle together with the cork disk, removed from the holder. Fig. 4, is a plan view of the blank with which the discharge nozzle and brush head is formed. Fig. 5, is a perspective view illustrative of the manner in which the bristles are fixed in the combined nozzle and head, and Fig. 6, is a detail section illustrating the plug for preventing a casual discharge of the mucilage from the holder.

In the said drawings, similar letters designate corresponding parts throughout the several views, referring to which—

A, indicates a mucilage holder or bottle which is provided upon its neck with threads as *a*.

B, indicates a collar which is threaded to engage the threads *a*, of the holder and is provided with the shoulder *b*, and the annular flange *c*.

C, indicates the cap which is designed to take over the flange *c*, as shown in Fig. 1, so as to render the holder air tight, and D, indicates the combined discharge nozzle and brush head which is held in position upon the holder by the collar B, as will be presently described. The said nozzle and brush head D, is preferably of metal, and in the present embodiment of my invention, it is formed from the blank shown in Fig. 4, which comprises a body *d*, of rectangular form in outline and the parallel wings *e*, which extend laterally from one longitudinal edge of the body and have their ends rounded as shown so as to conform to the collar B, when the nozzle and head is in position upon the holder as shown in Fig. 1. In forming the brush head and nozzle from the said blank, the bristles *f*, are laid upon the body *d*, of the blank in a position transverse thereto and the end portions of the body or the portions between the wings *e*, and the ends of the body are bent upon the body and subjected to pressure so as to clamp the bristles as shown in Fig. 5, and securely hold the same without the aid of cement or the like. The body *d*, is then bent at its middle so as to bring the bristle clamping bends *g*, together, and the body is then subjected to pressure, a suitable mandrel being previously interposed between the bends *g*, so as to form the opening *h*, for the passage of the mucilage. When the body *d*, is bent to bring the bristle clamping bends *g*, together, the wings *e*, rest upon opposite sides of the body, and when bent up into a position at right angles to the body, as shown in Fig. 3, they are designed to be interposed between the shoulder *b*, of the collar B, and the holder A, so as to enable the said collar to securely hold the combined head and discharge nozzle in position.

E, indicates a disk of cork or other suitable

material, which is interposed between the combined brush head and nozzle and the top of the holder so as to make a tight joint. The said disk E, is provided with a central aperture *i*, for the passage of the mucilage, and this aperture is of such a size that an opening *j*, is afforded at one side of the brush head and nozzle for the admission of air to accelerate the flow of mucilage, or other liquid or semi-liquid.

In order to prevent the mucilage from flowing from the holder into the bristles *f*, when the holder is packed for shipment, I provide a suitable plug, (see Fig. 6,) which may be inserted in the opening *h*, of the nozzle and head and rests between the bristles with its end projected so that it may be grasped and conveniently removed with the fingers when it is desired to use the holder.

In using the device, the cap C, is removed and the holder is inverted so as to permit the mucilage to flow through the nozzle and head D, into the brush. The brush is then passed over the article to be pasted and as the mucilage leaves the same, a fresh quantity will take its place so that the mucilage is spread uniformly so long as the brush is wielded. The mucilage however will not leave the brush unless the same is moved over a surface, and consequently it will be seen that with my device, mucilage may be spread to the very edge of a piece of paper without being smeared over the support upon which the paper is placed.

I prefer in practice to construct the combined brush head and discharge nozzle of my device with wings as *e*, since the said wings afford an engagement for the collar B, and enable the same to securely hold the head and nozzle in position, but I do not desire to be understood as confining myself to the use of the wings as the body of the device might be connected to a base adapted to be clamped between the collar B, and the holder, and in some cases both wings and base might be dispensed with. I also do not desire to be understood as confining myself to the specific construction and relative arrangement of the other parts of my improved device as herein de-

scribed as such changes or modifications may be made in practice as fairly fall within the scope of my invention, and while I have shown and described the brush in combination with the mucilage bottle or holder, yet it is obvious that the brush made as described can be attached to any suitable backing or support and used for various purposes.

Having described my invention, what I claim is—

1. A fountain brush comprising bristles and a head formed from a single blank of sheet metal bent upon itself so as to clamp and securely hold the bristles and having the lateral flanges or wings *e*; in combination with a holder, and a collar mounted on the holder and engaging the lateral flanges or wings *e*, so as to hold the brush head in position, substantially as specified.

2. In a device for the purpose described, the combination of a holder, a brush comprising bristles as *f*, and a head formed from a single blank of sheet metal bent upon itself so as to clamp and securely hold the bristles and having the lateral wings *e*, and also having a central opening *h*, between its bent portions for the passage of mucilage, and a suitable means adapted to engage the wings *e*, so as to hold the brush upon the holder, substantially as specified.

3. In a device for the purpose described, the combination of the holder, an apertured disk E, mounted on the holder, a brush comprising bristles and a head having lateral wings as *e*, adapted to rest upon the disk E, and also having a central opening, a threaded collar engaging threads on the holder and having a shoulder engaging the wings *e*, of the brush head and also having an annular flange, and a cap adapted to take over said annular flange, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES A. SAMPSELL.

Witnesses:

H. A. SAMPSELL,

L. D. SAMPSELL.