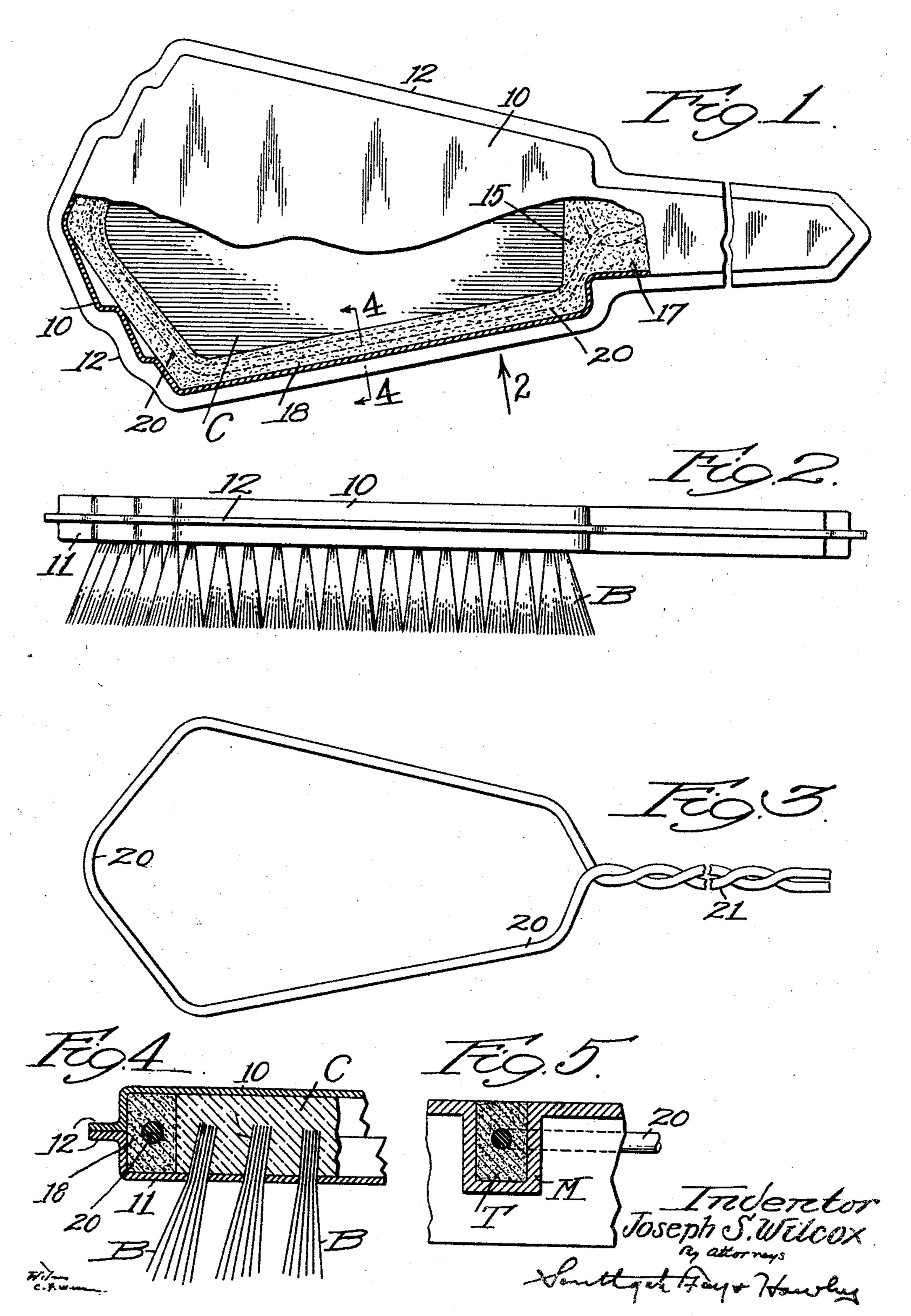
REENFORCING FRAME MEMBER FOR TOILET ARTICLES

Filed Dec. 29, 1931

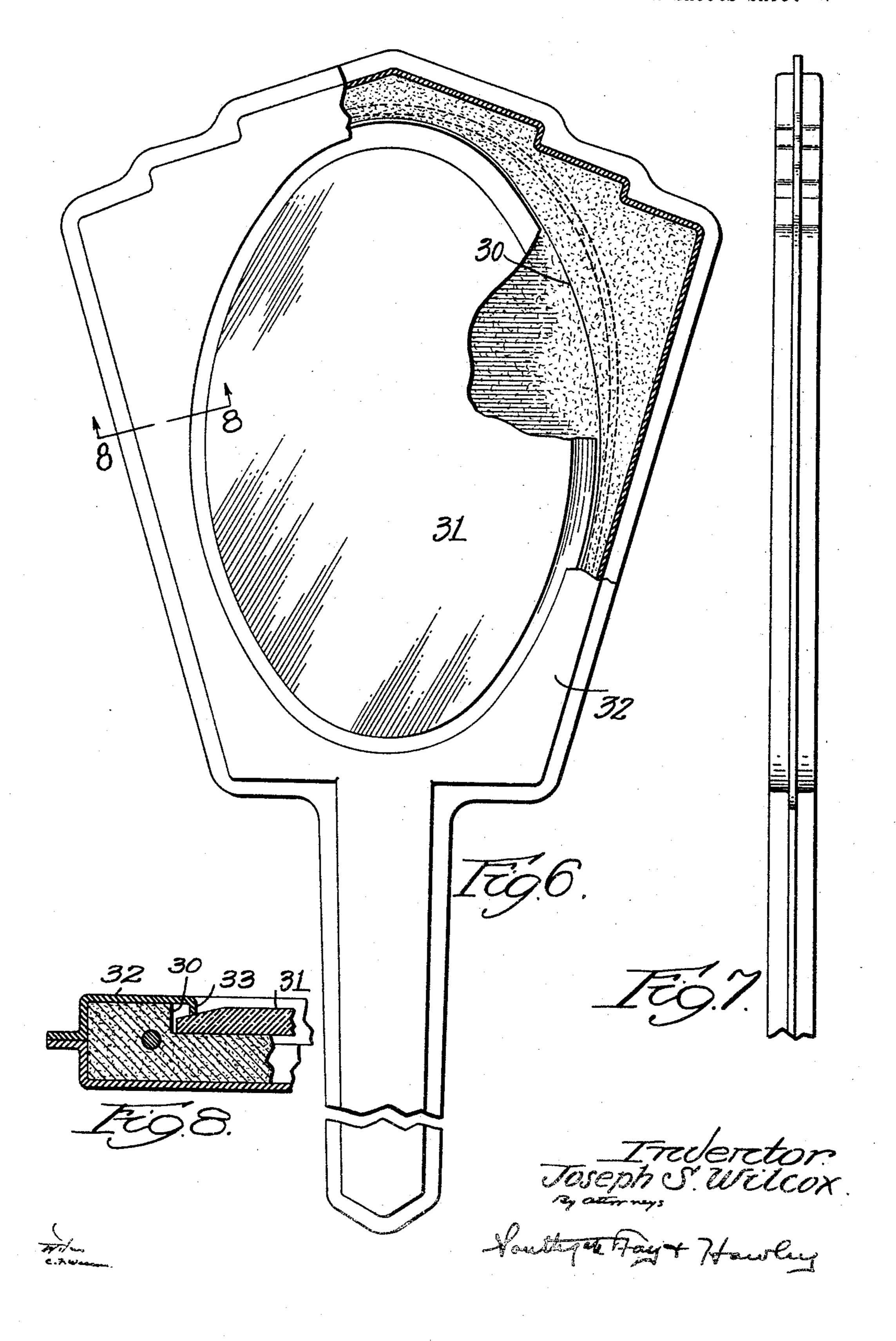
2 Sheets-Sheet 1



REENFORCING FRAME MEMBER FOR TOILET ARTICLES

Filed Dec. 29, 1931

2 Sheets-Sheet 2



## UNITED STATES PATENT OFFICE

JOSEPH S. WILCOX, OF ATHOL, MASSACHUSETTS, ASSIGNOR PANY, OF ATHOL, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS

## REENFORCING FRAME MEMBER FOR TOILET ARTICLES

Application filed December 29, 1931. Serial No. 583,785.

This invention relates to toilet articles, such as hair-brushes or mirrors, in which an extended body portion is provided, with an integral handle portion at one end thereof. 5 The frame structure of such toilet articles is commonly enclosed and concealed within the line 8-8 in Fig. 6. a casing of sheet celluloid or other suitable material.

10 October 9, 1929, I have shown a hair-brush formed from sheet celluloid or other similar 60 15 enforcing frame member constituted a gether after the brush is assembled.

vention to improve the construction shown C by which the bristles B are retained in place. in my prior patent by providing a reenforc- The reenforcing frame 15 is preferably ing frame member which may be easily formed of some hard-setting plastic material, 25 formed, but which is of a more rigid con- such as plaster-of-Paris, and is provided 75 struction than that shown in my prior patent with a wire reenforcement 20 embedded and which is much less subject to breakage therein. This reenforcement 20 preferably during assembly or use.

30 vantages in connection with the manufacture portion of the brush, and having the handle 80 of hair-brushes, it may also be used to ad- portion 21 formed by twisting the wires tovantage in the manufacture of toilet mirrors gether, as indicated in Fig. 3. and other similar toilet articles.

35 ments and combinations of parts which will ment 20 in a suitable mold M (Fig. 5) and 85 ly pointed out in the appended claims.

shown in the drawings, in which

Fig. 1 is a plan view, partly in section, of a hair-brush embodying my improvements;

Fig. 2 is a side elevation thereof;

Fig. 3 is a plan view of a reenforcing wire 45 frame;

Fig. 4 is a detail sectional view, taken along the line 4—4 in Fig. 1;

Fig. 5 is a detail sectional view showing the preferred method of holding my improved reenforcing frame member;

Fig. 6 is a plan view, partly in section, of a toilet mirror embodying my improvements;

Fig. 7 is a side elevation thereof, and

Fig. 8 is a detail sectional view, taken along 55

Referring particularly to Figs. 1 to 5, I have shown a hair-brush having upper and In my prior Patent No. 1,730,702 issued lower casing members 10 and 11, preferably having a reenforcing frame member formed material, and molded into any desired or orfrom a single piece of wood, with the central namental form. These casing members are portion cut away to provide a recess for the commonly provided with outwardly projectbristle-holding cement. The use of this re- ing flange portions 12, which are cemented to-

marked improvement over the prior practice. A reenforcing frame member 15 is proof filling a closed celluloid casing with liq- vided within the outer casing, which reenuid cement, but was found somewhat expen- forcing member may comprise a handle porsive, and it was also found that the light wood tion 17 and a body portion 18 having an open 20 frames were rather easily broken. center to receive the inner ends of bristles B 70 It is the general object of my present in- (Fig. 4) and also to receive a mass of cement consists of a single piece of heavy wire, While my invention possesses special ad-shaped roughly to the outline of the body

The reenforcing member 15 may be easily My invention further relates to arrange- constructed by placing the wire reenforcebe hereinafter described and more particular- then filling the mold with a mass of plastic material T. After the plaster is firmly set, Two applications of the invention are the complete reenforcing frame member is removed from the mold and may be placed within a lower casing member 11 of corre- 90 sponding outline.

The bristles B may then be inserted in the usual manner, and the open central space within the reenforcing member 15 may be filled with any suitable cement C by which 95 the bristles are securely retained. The thickness of the member 15 is preferably substantially equal to the depth of the space between the casing members.

The upper casing member 10 is applied 100

after the cement C has been inserted, and the cementing together of the flanges 12 then com-

The wire reenforcement 20, being continuous throughout and of substantial cross section, affords a strong and rigid foundation for my improved reenforcing frame member 15, and the plastic material T provides the necessary thickness and body for the reenmembers 10 and 11.

The invention may be readily adapted to different designs by providing a suitable 15 mold M for each desired outline. The wire reenforcement may be readily bent to fit with-

in any selected mold M.

In Figs. 6 to 8 I have shown my invention embodied in the structure of a small toilet 29 or hand mirror. In this case, the same wire reenforcement and the same plastic material are used, but the open center is replaced by a recess 30 of the right shape and depth to receive a mirror glass 31.

Furthermore, the upper casing member 32 is provided with an open center portion and with an offset inner flange 33 positioned to engage the beveled edge portion of the glass 31 and to firmly retain the glass in position.

Otherwise the construction shown in Figs. 6, 7 and 8 is substantially similar to that shown in Figs. 1 to 5 and possesses corre-

sponding advantages.

I have provided a reenforcing frame member which is easily constructed in any desired outline, and which is of great rigidity and not liable to breakage, either before or after embodiment in a finished article. The invention is of diminished but substantial value in articles in which the handle portions are omitted.

Having thus described my invention and the advantages thereof, I do not wish to be limited to the details herein disclosed, otherwise than as set forth in the claims, but what

I claim is:—

1. In a toilet article having a casing, a reenforcing frame member separate from but mounted within said casing and having a central recess, said frame member being formed of substantially rigid hardened material and having a wire reenforcement embedded therein and extending continuously around said central recess.

2. In a toilet article having a casing with a handle portion, a reenforcing frame member separate from but mounted within said casing and extending into said handle and having a central recess, said frame member being formed of substantially rigid hardened material and having a wire reenforcement embedded therein and extending continuously around said central recess and into said handle portion.

3. In a toilet article having a casing with

a handle portion, a reenforcing frame member separate from but mounted within said pletes the construction of the brush. casing and extending into said handle and having a central recess, said frame member fitting closely adjacent the side walls of said 70 casing and being formed of substantially rigid hardened material, and said frame member having a wire reenforcement embedded therein and extending continuously around 10 forcing member and is shaped by the mold M said central recess, with the ends of said wire 75 to fit accurately within corresponding casing reenforcement extending into and stiffening said handle portion.

4. In a toilet article having a casing with a handle portion, a reenforcing frame member mounted within said casing and having a 80 central recess, said frame member being separate from but fitting closely adjacent the side walls of said casing and being formed of substantially rigid hardened material, and said frame member having a wire reenforce- 85 ment embedded therein and extending continuously around said frame, with the ends of said reenforcing member and said wire extending into and stiffening said handle portion, and the ends of said wire being twisted 90

together in said handle portion.

5. In a toilet article having a casing with a handle portion, a reenforcing frame member mounted within said casing and formed of substantially rigid hardened material, said 95 frame member being separate from but having a wire reenforcement embedded therein and extending continuously around said frame member, said frame member and said wire extending into and stiffening said han- 100 dle portion, and the middle portion of said frame member being open to receive bristle ends and bristle-holding cement within said casing.

In testimony whereof I have hereunto af- 105

fixed my signature.

JOSEPH S. WILCOX.