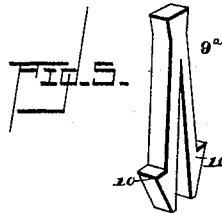
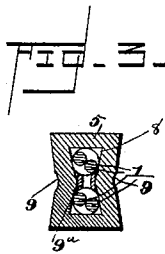
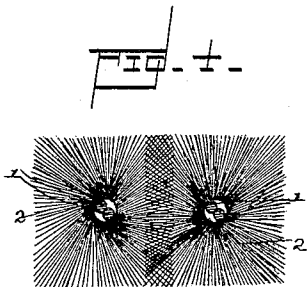
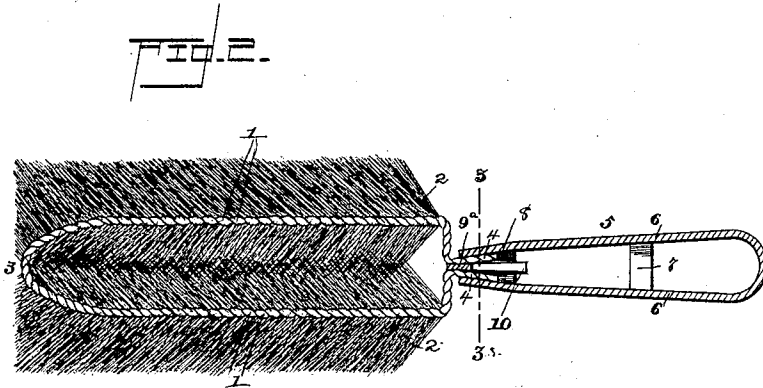
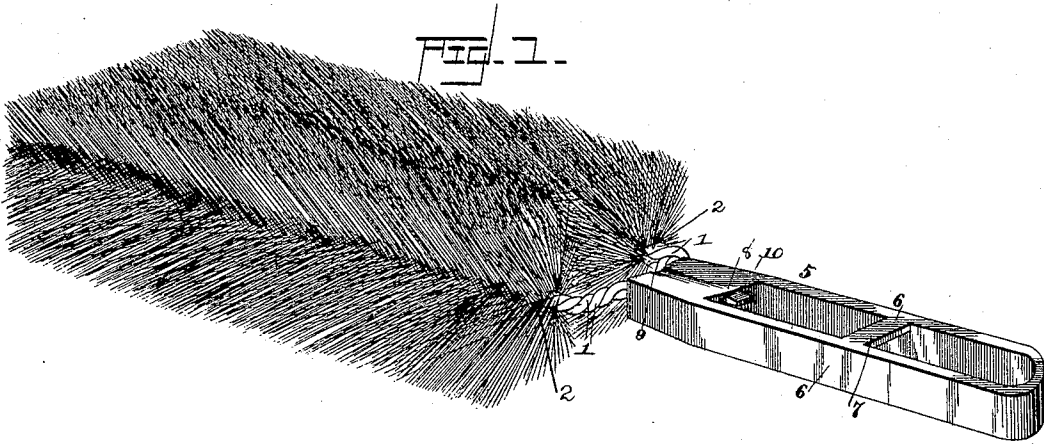


(No Model.)

B. J. DIETZ.
CLOTHES BRUSH.

No. 461,604.

Patented Oct. 20, 1891.



Witnesses

E. S. Duvall Jr.
Wm. Bagger

By his Attorneys,

C. Snow & Co.

Inventor
Byron J. Dietz.

UNITED STATES PATENT OFFICE.

BYRON J. DIETZ, OF CENTRAL BRIDGE, NEW YORK.

CLOTHES-BRUSH.

SPECIFICATION forming part of Letters Patent No. 461,604, dated October 20, 1891.

Application filed March 18, 1891. Serial No. 385,539. (No model.)

To all whom it may concern:

Be it known that I, BYRON J. DIETZ, a citizen of the United States, residing at Central Bridge, in the county of Schoharie and State of New York, have invented a new and useful Clothes-Brush, of which the following is a specification.

This invention relates to brushes; and it has for its object to provide a brush which shall be simple, durable, inexpensive, and easy of manufacture.

With these ends in view the invention consists in the construction and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, Figure 1 is a perspective view of a brush constructed in accordance with my invention. Fig. 2 is a longitudinal sectional view taken through the handle and the lower part of the brush. Fig. 3 is a transverse sectional view taken on the line 3 3 in Fig. 2. Fig. 4 is a transverse section through the brush. Fig. 5 is a detail view of the split key.

Like numerals of reference indicate like parts in all the figures.

The body of my improved brush is formed of twisted strands of wire 1 1, between which a layer of bristles, as 2, is interposed, said bristles being retained by twisting the strands of wire throughout the length of the same, so as to form a series of loops in which the said bristles will be securely held. The twisted wires are next bent so as to form the loop-shaped frame 3 of any desired size and shape, the inner ends of the opposing bristles being intermeshed, as will be clearly seen in Fig. 1 of the drawings. The outer or projecting ends of the bristles are then trimmed to the desired shape or outline, and the ends 4 4 of the rectangular loop or frame of the brush-body are then connected to the handle. The latter, which is designated by 5, is preferably cast of malleable metal, and it is composed of the sides 6 6, connected by braces 7 and having the socket 8, into which the ends 4 of the twisted-wire frame are inserted. The sides of the socket 8 are then compressed or indented, as shown at 9, so as to cause the malleable metal, of which the handle and socket

are composed, to close tightly upon the twisted-wire ends of the brush-frame, which are thereby held securely in position. If desired, a split key or wedge of spring metal may be driven into the socket between the ends of the brush-frame prior to compressing the sides of the socket, said key being provided at its ends with catches, as 10, to engage the lower edges of the sides of the socket. This key, which has been designated by 9^a, will add to the security of the device without detracting from the appearance.

The advantages of my improved brush will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed.

The construction of the brush is simple and inexpensive, and the handle may likewise be constructed at a trifling cost. Owing to the difficulty of securing the ends of the twisted-wire frame a wooden handle would not be desirable in my improved brush, for the reason that it would be necessary, in order to insure sufficient strength, to make such a handle large and heavy as to appear clumsy.

My improved metallic handle is simple, inexpensive, and neat in appearance, and is of such a nature as to enable the ends of the brush-frame to be easily and very securely mounted therein.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The combination of the brush composed of a frame formed of twisted strands of wire and bristles carried thereby, said brush-frame having projecting ends, a malleable-metal handle having a socket in its end receiving the ends of the brush-frame, and a split key in said socket between the frame ends and provided with catches engaging the inner edges of the sides of said socket, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

BYRON J. DIETZ.

Witnesses:

WILLIAM W. VANZANDT,
W. B. COLYER.