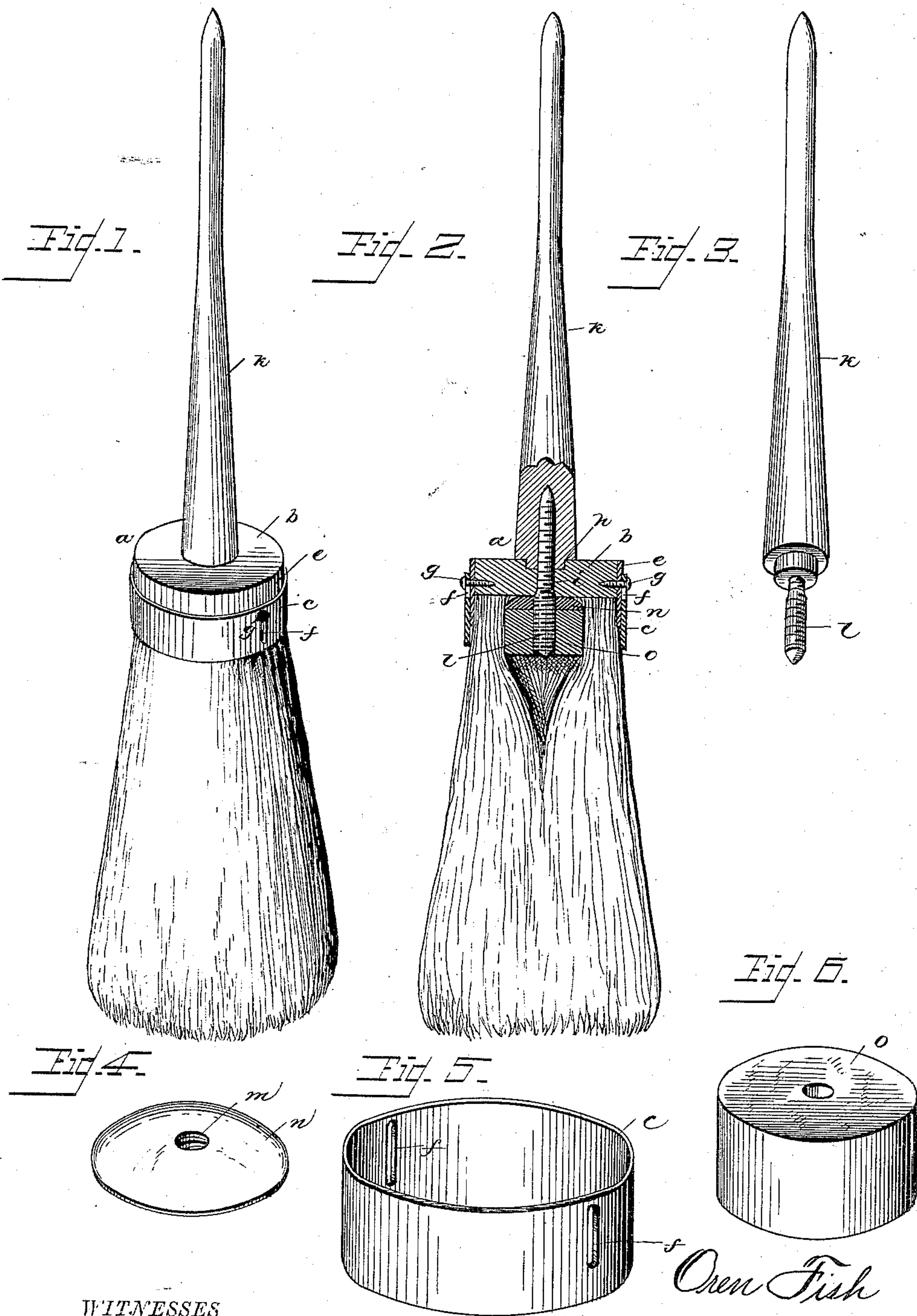


(No Model.)

O. FISH.  
BRUSH.

No. 307,711.

Patented Nov. 4, 1884.



WITNESSES

J. L. Ourand  
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# UNITED STATES PATENT OFFICE.

OREN FISH, OF CLEVELAND, OHIO.

## BRUSH.

SPECIFICATION forming part of Letters Patent No. 307,711, dated November 4, 1884.

Application filed February 5, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, OREN FISH, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have  
5 invented a new and useful Brush, of which the following is a specification, reference being had to the accompanying drawings.

Figure 1 is a view in perspective of a brush embodying my improvement. Fig. 2 is a vertical sectional view. Fig. 3 is a view of the  
10 handle detached. Fig. 4 is a perspective view of the metal disk for holding the bristles within the brush-cap. Fig. 5 is a detail view of the adjustable metallic bridle, and Fig. 6 is a  
15 detail view of the wooden spool used on the lower end of the securing-screw in the handle.

This invention has relation to brushes for painters' uses and for other purposes; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the  
20 claims appended.

Referring by letter to the accompanying drawings, *a* designates the brush-cap, which  
25 is composed of a wooden top piece, *b*, of either round or oval or other form, encompassed by a metal band, *c*, for strengthening it and preventing it from splitting or becoming worn at the edges, said band being secured thereto by  
30 the same screws that hold the adjustable metallic bridle *e* in place. The bridle *e* slips over the metal band *c*, which extends well down below the wooden top piece, and is provided with vertical slots *f*, through which the screws  
35 *g g* pass to secure both the metal band *c* and the metal bridle *e* in place. The top piece, *b*, has a central mortise, *h*, annular in form, extending partially through it from its upper face, and a screw-hole, *i*, extending from the  
40 bottom of this mortise through the top piece, centrally of the same. The handle *k* is provided at its lower end with a circular tenon which fits the mortise *h*, and a metal screw, *l*, the upper portion of which is provided with  
45 wood threads, by which it is secured into the handle, the other or lower portion being provided with threads adapted to fit the threaded hole *m* in the metal disk *n* or center piece. When the brush is made in oval or other form,  
50 the center piece or securing-plate *n* must be of a corresponding shape as the top piece, but of course smaller, so that it will fit within

the cap to secure the bristles in place. A wooden spool, *o*, is secured upon the end of the screw that projects through the securing-  
55 disk or center piece and projects below the metal band *c*, and is intended to be used in connection with the metal bridle *e* in bridling the brush. The center piece is nearly convexo-plano in cross-section, and has a wedg-  
60 ing action when tightened up upon the bristles, the convex face being uppermost. The mass of bristles are placed with their butts in the brush-cap, and the metal disk placed in position. The central mortise guides the  
65 screw to the center of the mass of bristles, and the point of the screw enters the threaded hole in the metal center piece and draws it up, thus firmly securing the bristles in the cap. After the bristles have been secured in  
70 place the spool is screwed on the projecting end of the screw in the mass of bristles. The bridle is then adjusted upon the bristles by first slipping it over the metal band *c*, the  
75 screws having been withdrawn and again inserted through the slots and screw-holes, and the bridle adjusted as may be desired, and the screws then tightened to hold the parts firmly in position. A brush constructed in  
80 this manner is not liable to be damaged by keeping it in stock any length of time, nor is it likely to be damaged by cleaning it with anything that will not affect the bristles to  
85 injure them. They require no soaking before using. The outside being metal and the center metal, there is no shrinkage, and the bristles will not become loose.

The brush can be made of any desired shape without departing from the character of the invention by simply modifying the metal  
90 band and center piece as to shape.

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

1. In a brush, the combination, with the  
95 wooden top piece having a central mortise and a central screw-hole leading from the bottom thereof through the top piece, which latter is surrounded by a metal band the lower edge of which extends below the lower face of the  
100 top piece, of a handle having a tenon on its lower end to fit the mortise in the top piece, and a screw to pass through the screw-hole in the bottom of the mortise, and a metal center

piece adapted to be drawn up within the cap by the screw to hold the bristles securely therein, substantially as specified.

2. In a brush, the combination, with the  
5 wooden top piece having the central mortise and screw-hole for the tenoned brush-handle, provided with the tightening-screw, and the metal band encircling the top piece and projecting below the same, of the metal center  
10 piece having the threaded hole for the tightening-screw, the wooden spool on the screw

below the center piece, and the adjustable metal bridle over the metal band, substantially as specified.

In testimony that I claim the foregoing as 15  
my own I have hereto affixed my signature in presence of two witnesses.

OREN FISH.

Witnesses:

W. E. HARROW,  
JOHN SCHUYLER.