

(No Model.)

C. BUSCH.  
ELECTRIC COMB.

No. 384,561.

Patented June 12, 1888.

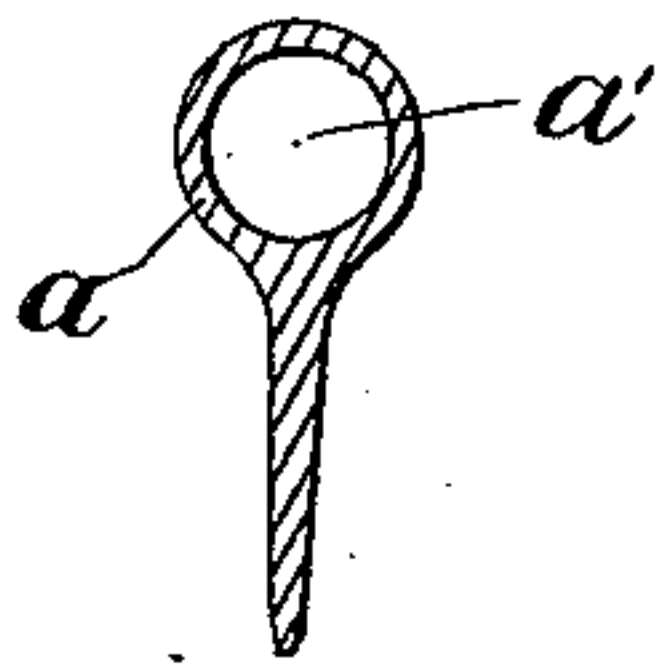


Fig. 3

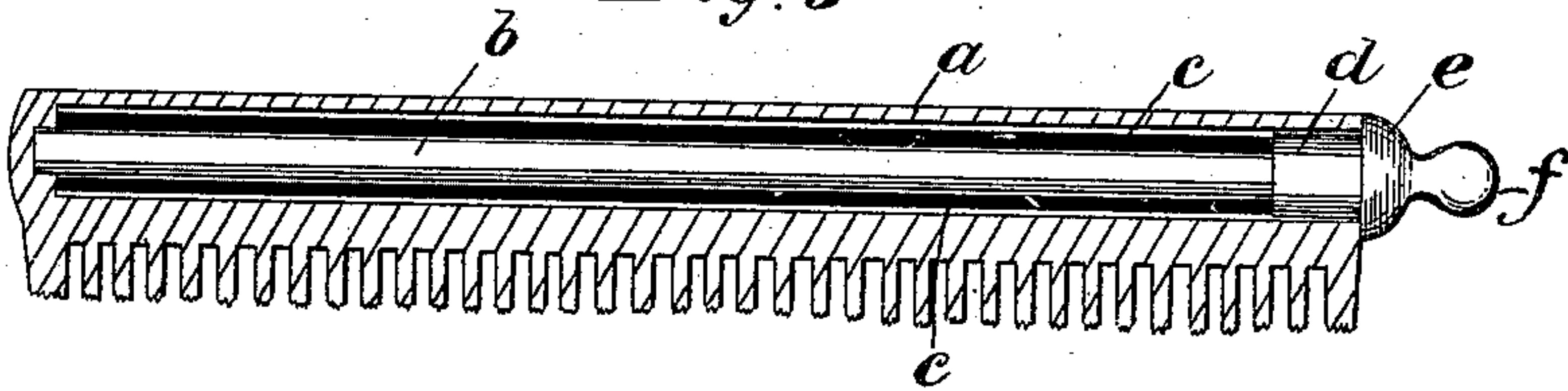


Fig. 4

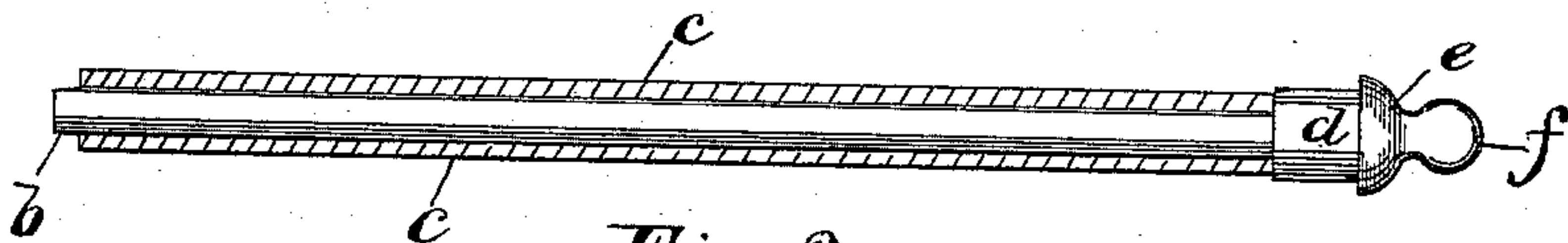


Fig. 2

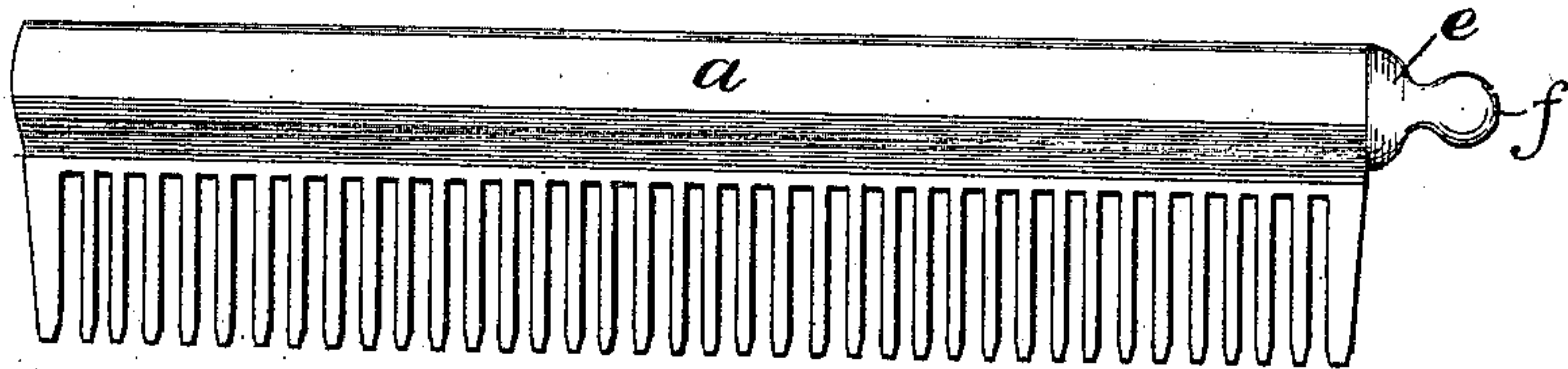


Fig. 1

Witnesses;  
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A. H. Newman,

Inventor.  
per Carl Busch.  
Wm. Zimmerman.  
Attorney.

# UNITED STATES PATENT OFFICE.

CARL BUSCH, OF CHICAGO, ILLINOIS.

## ELECTRIC COMB.

SPECIFICATION forming part of Letters Patent No. 384,561, dated June 12, 1888.

Application filed January 26, 1888. Serial No. 261,999. (No model.)

*To all whom it may concern:*

Be it known that I, CARL BUSCH, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Electric Combs, which are fully set forth in the following specification, reference being had to the accompanying drawings, forming a part hereof, and in which—

Figure 1 shows my improved electric comb in perspective. Fig. 2 shows the negative pole or part of the battery-cell with its envelope or jacket in section, the metal pole being shown entire. Fig. 3 shows a section of my comb in end view, with the tubular head of the comb shown open at both ends. Fig. 4 shows the comb in sectional elevation, cut through the center of the head or battery-cell, and teeth, the latter being broken short, and the core or negative pole of the battery in perspective, and its enveloping jacket or storer of exciting-fluid cut away from the front half of the negative pole of the battery, which part is shown in heavy black lines.

Like letters refer to like parts.

The object of my invention is to construct a comb for toilet purposes, &c., capable of giving an electric action accompanied with an agreeable sensation of electrical action, and thereby productive of beneficial effects to the user of such comb independent of any medical properties which such structure may have.

In the drawings, *a* shows a cylinder, which forms the head of a comb, within which throughout, or nearly all of its length, there is a cavity, *a'*, and upon one side of which is a row of comb-teeth. Said cylinder and teeth are preferably made of one metal—as copper—but, if preferred, the teeth may separately be made of brass or other conductor of electricity, as fancy may suggest or is most pleasing to the eye or useful as a conductor of electricity. Within said cavity *a'* is placed a

cylinder or rod of zinc, *b*, covered with felt, cloth, or like material capable of absorbing and holding a suitable exciting-fluid, with which said covering is charged when in use. Said core *b* and covering *c* together are made small enough to just slip easily into the cavity *a'*, and at one end of said core is a short enlargement, forming a plug which fills the cavity *a'* closely, thereby serving as a cork to the contents of the cylinder, which should be made smooth and tight-fitting; or it may be provided with a male thread and the interior of the cylinder with a corresponding female thread, or said parts may be soldered together when found advisable.

A shouldered cover, *e*, at the outer end of said enlargement, having its corners rounded off, forms a part of said enlargement, for the purpose of both more securely closing said cylinder and at the same time to finish the end of said cylinder or head of the comb in a more sightly manner. Said cover is also provided with a knob, *f*, by means of which said cover and its rod or core may be removed.

What I claim is—

1. An electrical comb formed of a hollow metal cylinder, *a*, having metal comb-teeth, and provided with a core, *b*, having plug *d* and cover *e*, said core provided with a jacket, *c*, charged with an exciting fluid, substantially as specified.

2. An electrical comb formed of a hollow metal cylinder, *a*, having metal comb-teeth, and provided with a core, *b*, having enlarged plug *d*, to which is attached a shouldered cover, *e*, and knob *f*, said core provided with a jacket, *c*, charged with an exciting-fluid, substantially as specified.

CARL BUSCH.

Witnesses:

HERMANN TRAUS,  
WM. ZIMMERMAN.