

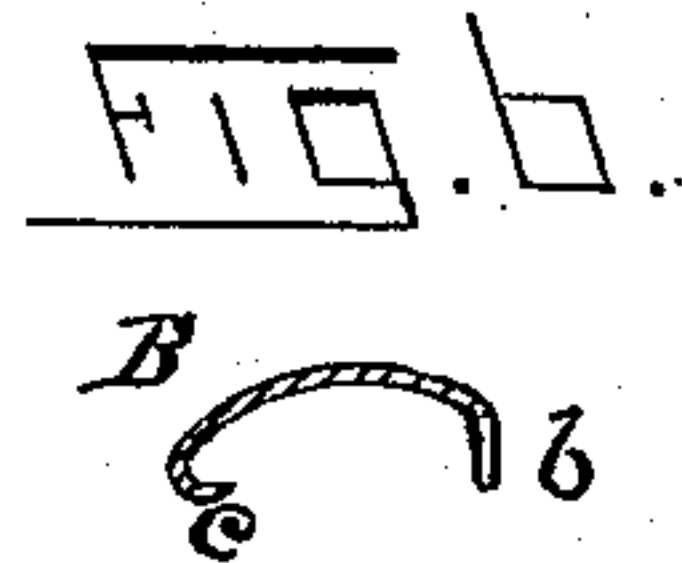
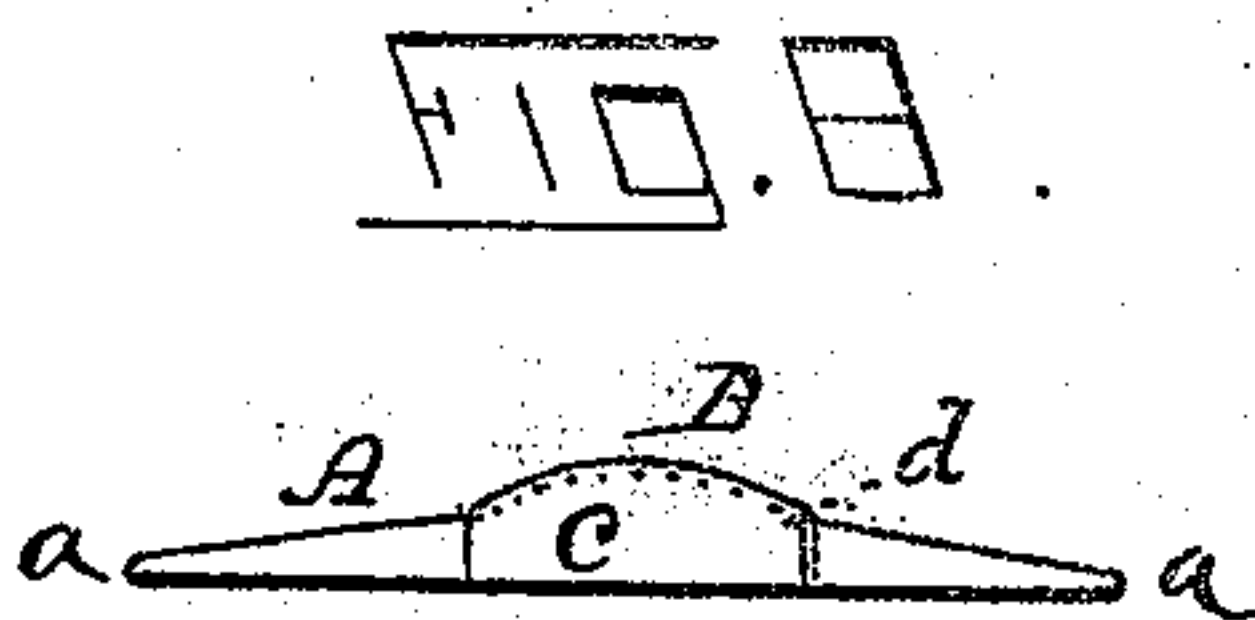
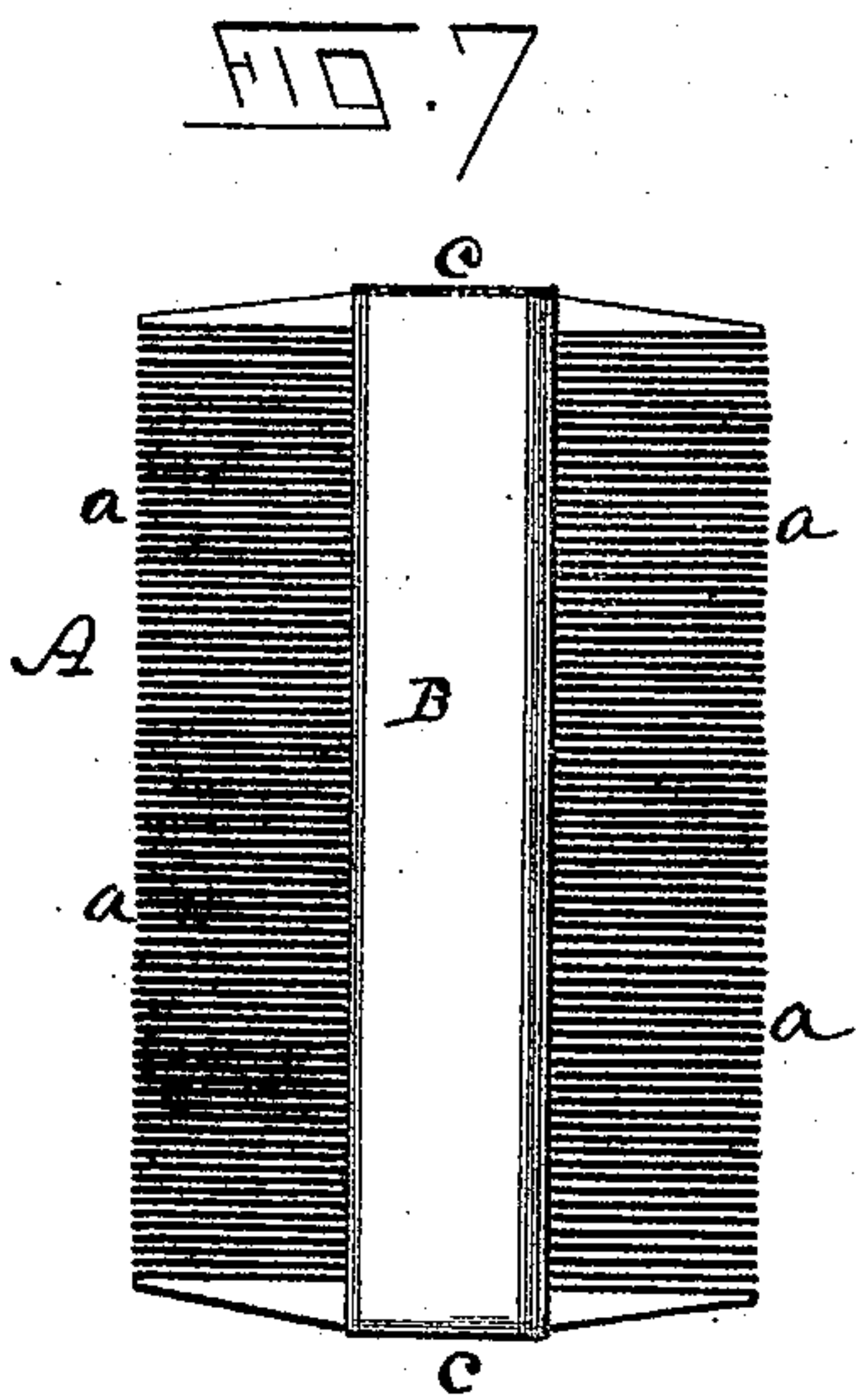
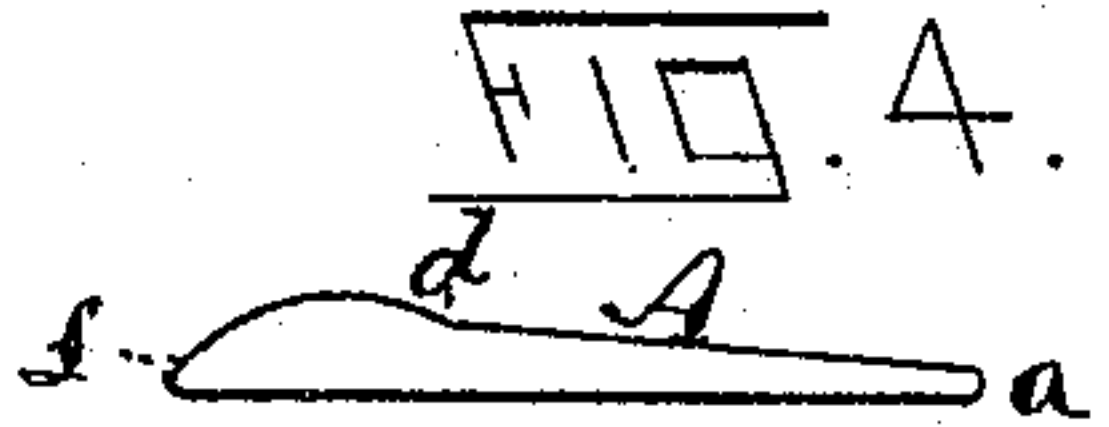
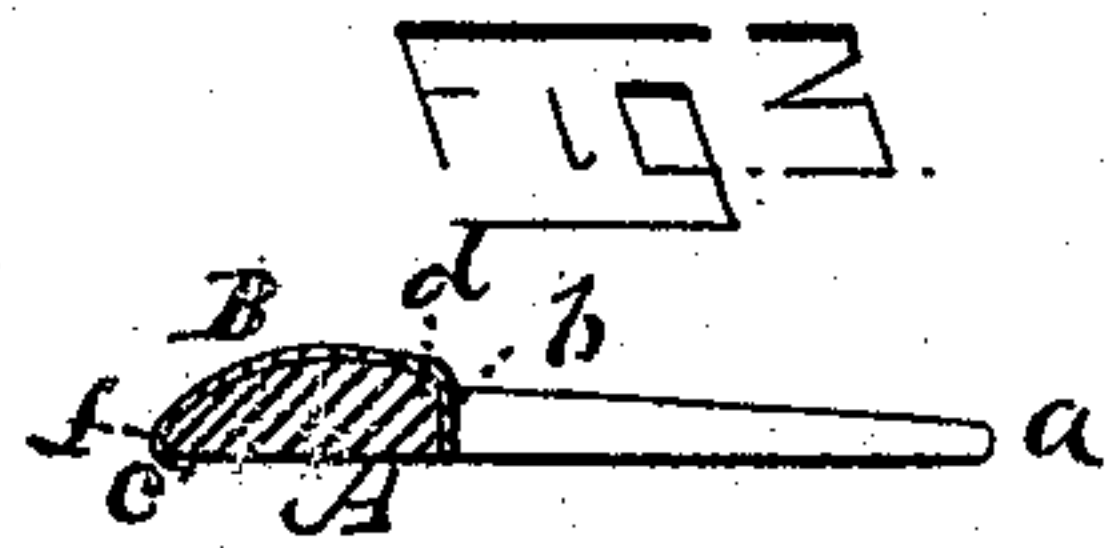
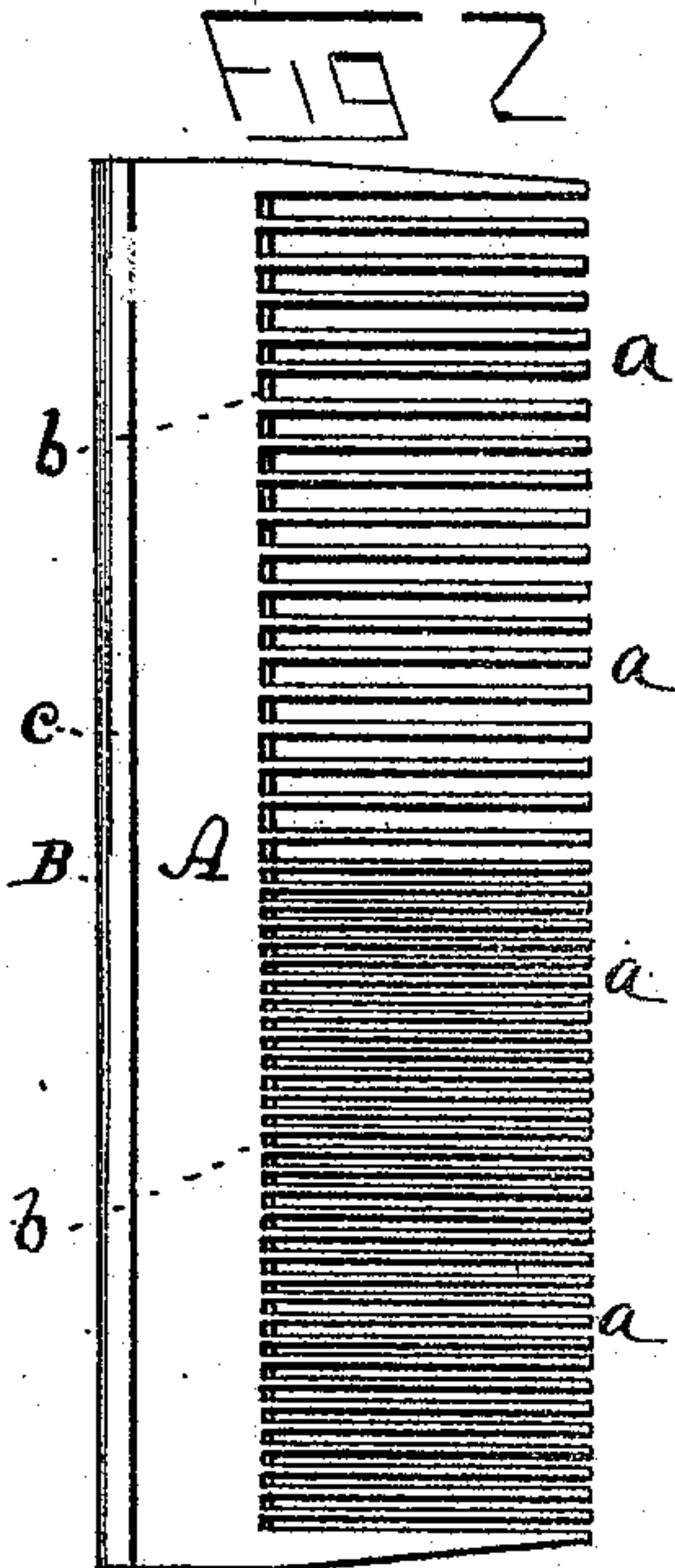
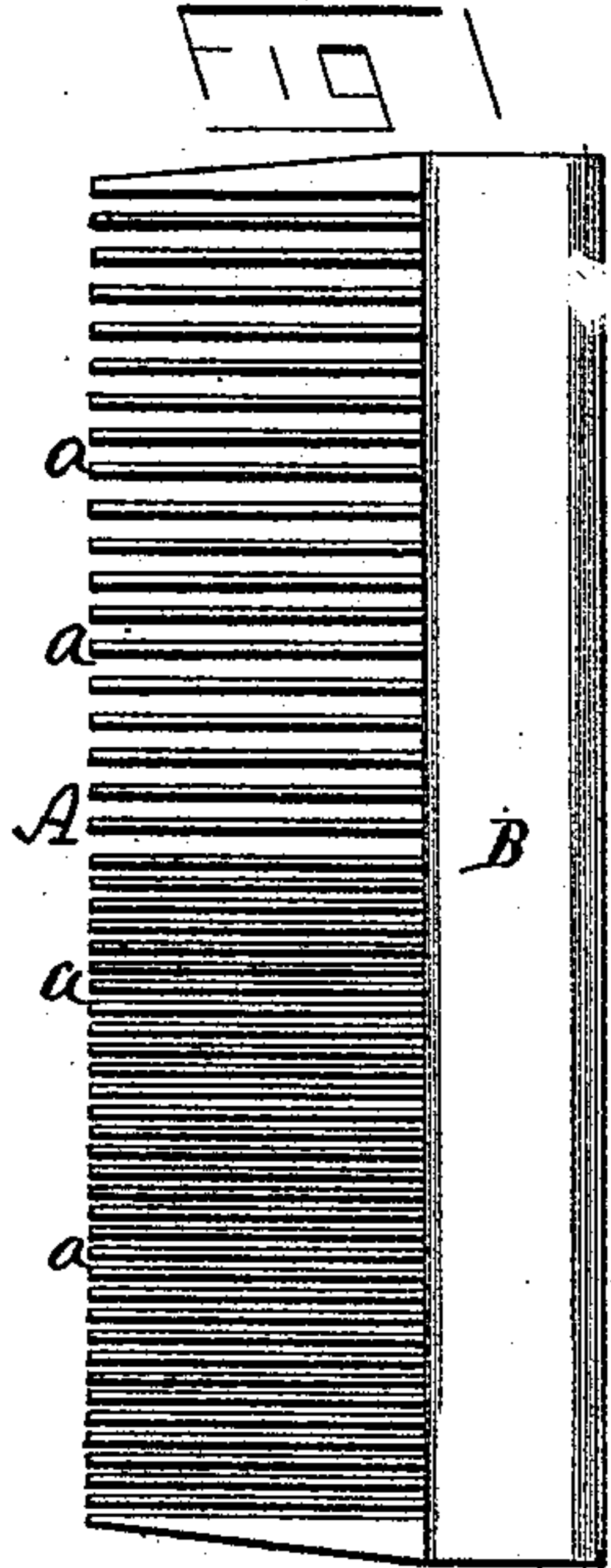
(No Model.)

E. H. COCHEN.

COMBINED COMB AND COMB CLEANER.

No. 339,380.

Patented Apr. 6, 1886.



Witnesses:  
Norris A. Clark.  
*Arthur H. Brown*

Inventor :  
*Eugene Henry Cochran*  
By *J. S. Brown*,  
his Attorney



# UNITED STATES PATENT OFFICE.

EUGENE HENRY COCHEN, OF BROOKLYN, NEW YORK.

## COMBINED COMB AND COMB-CLEANER.

SPECIFICATION forming part of Letters Patent No. 339,380, dated April 6, 1886.

Application filed September 7, 1885. Serial No. 176,355. (No model.)

*To all whom it may concern:*

Be it known that I, EUGENE HENRY COCHEN, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Combined Comb and Comb-Cleaner; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

Figure 1 is a side view of the comb and comb-cleaner united; Fig. 2, an opposite side view of the same; Fig. 3, a cross-section of the same; Fig. 4, an end view of the comb separate; Fig. 5, a front edge view of the comb-cleaner separate; Fig. 6, a cross-section of the same; Fig. 7, a side view of a double comb having one of the cleaners attached thereto; Fig. 8, an end view of the same.

Like letters designate corresponding parts in all of the figures.

My invention consists in the combination of a comb, A, having some peculiarities of construction, and a comb-cleaner, B, peculiarly constructed, whereby not only is the comb-cleaner adapted to clean all the teeth of the comb by one movement thereof when the two are separate, but by which the comb and comb-cleaner may be united and used as one, the comb-cleaner then serving to re-enforce the back of the comb and keep it from becoming broken.

The comb A has or may have teeth *a a*, of ordinary construction, a portion coarse and a portion fine, as shown in Figs. 1 and 2, or all fine, as shown in Fig. 7.

The comb-cleaner B extends the entire length of the comb to which it is applied, or thereabout, and it has a set of short teeth, *b b*, at the proper intervals, and of proper width to fit closely between all the tooth-spaces of the comb, and these teeth are turned at right angles, or nearly so, to the body of the cleaner, so as to fit between the teeth of the comb when the comb and comb-cleaner are united, as shown in Figs. 1, 2, 3, and 7. When they are thus united, these short teeth *b b* just reach through between the bottoms of the comb-teeth to the other side of the comb without projecting at all beyond the same, as shown in Fig. 3, so that they will perfectly clean out

the impurities between the comb-teeth, and yet present no roughness to the comb when the two are united.

For applying the comb-cleaner to the comb to strengthen it, if the comb is single, as shown in Figs. 1 and 2, the comb-cleaner has a lip or flange, *c*, at the back edge, which fits and hooks closely around the back edge of the comb, as shown. By this means the comb-cleaner is securely held upon the comb and prevents it from being broken, the comb-cleaner teeth at the same time fitting between the teeth of the comb.

For removing the comb-cleaner from the back of the comb, so as to use it for cleaning the same, the toothed edge is first lifted from the comb, thereby withdrawing its teeth *b b* from between the comb-teeth, when the back of the comb-cleaner is readily separated from the comb. The comb-cleaner teeth are then again inserted between the comb-teeth without attaching the back of the comb-cleaner to the back of the comb. The comb-cleaner is then pushed edgewise along the side of the comb till the teeth of the comb-cleaner come out from between the points of the comb-teeth, thus removing all the impurities in the comb at once.

For a double comb, as shown in Figs. 7 and 8, the comb-cleaner, instead of an attaching lip or flange to pass around the back edge of the comb, has two lips or flanges, *c c*, to fit over the ends of the comb, as shown. In other respects the construction of the comb-cleaner is the same as for the single comb. Only a single comb-cleaner is required for the double comb, if the teeth of both edges of the comb are of equal fineness.

The peculiarities of the construction of the comb to adapt it to the improved comb-cleaner are as follows:

First. One side of the comb-back is raised a little above the plane of the teeth *a a*, making it a little thicker than usual, and the inner edge, *d*, of this raised side is rounded or beveled inward to the teeth, as shown in Figs. 3, 4, and 8. This form enables the comb-cleaner to be rounded in the part which fits upon the rounded part *d* of the comb, and thus make an obtuse angle at the bases of the



teeth *b b*, as shown in Fig. 6. The comb-cleaner is then more easily and effectually wiped clean after it is used to clean the comb.

Second. For the single comb, as illustrated in Figs. 1, 2, and 3, the back edge of the comb is rounded off on the raised or thickened side, as at *f*, and the extreme edge of the comb is made quite thin, and the comb-cleaner, being made of similar shape where its lip or flange *e* is bent over, is thereby enabled to fit tightly around the back edge of the comb, so as to make a good appearance and to completely protect the comb from breakage.

The comb-cleaner may be made of sheet metal, celluloid, hard rubber, or any other suitable material.

I claim as my invention:—

1. A comb-cleaner, B, formed with short teeth *b b*, bent substantially at right angles to

its body, and with a holding-flange, *c*, in combination with a comb, A, substantially as and for the purpose herein specified.

2. A comb, A, formed with one side of the back raised more than the teeth, with the inner edge, *d*, thereof rounded or beveled inward to the teeth, in combination with a comb-cleaner, B, formed to fit the comb thus constructed, substantially as and for the purpose herein preferred.

3. A comb, A, formed with its back edge, *f*, made thin and rounded on one side, in combination with a comb-cleaner, B, formed to fit the same, substantially as and for the purpose herein specified.

EUGENE HENRY COCHEN.

Witnesses:

J. S. BROWN,

A. S. BROWN.

Correction in Letters Patent No. 339,380.

It is hereby certified that the name of the patentee in Letters Patent No. 339,380, granted April 6, 1886, for an improvement in "Combined Comb and Comb Cleaner," was erroneously written and printed "Eugene Henry Cochen;" that said name should have been written and printed *Eugene Henry Cocheu*; and that said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed, countersigned, and sealed this 13th day of April, A. D. 1886.

[SEAL.]

H. L. MULDROW,  
*Acting Secretary of the Interior.*

Countersigned:

M. V. MONTGOMERY,  
*Commissioner of Patents.*