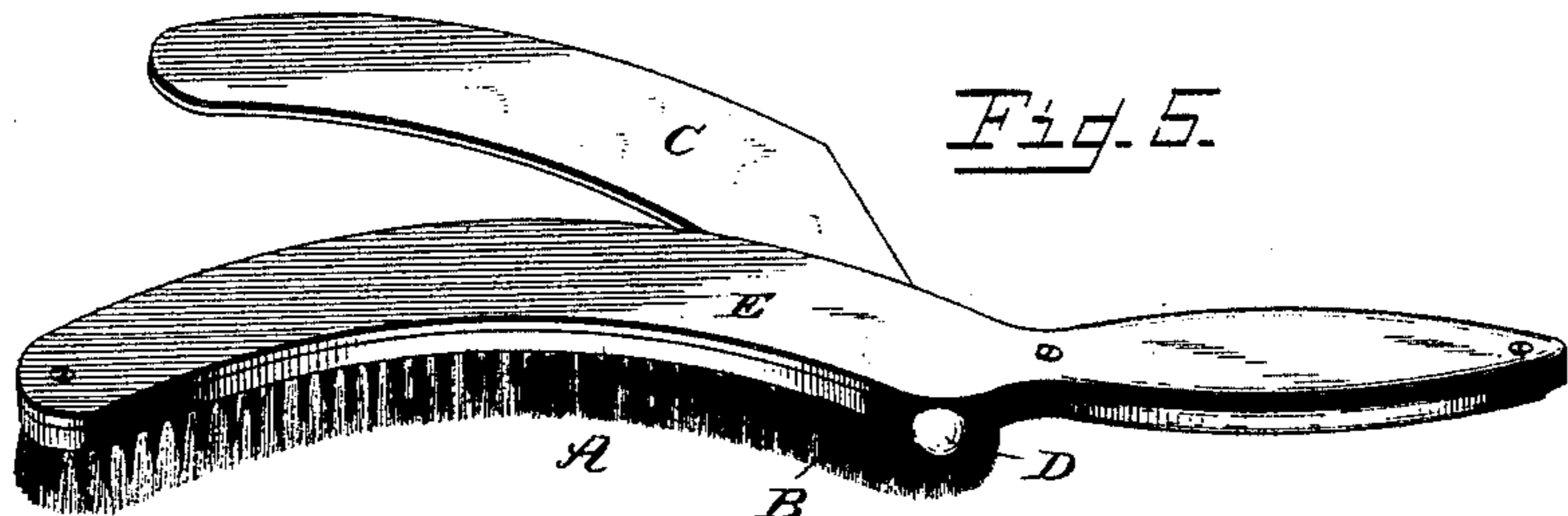
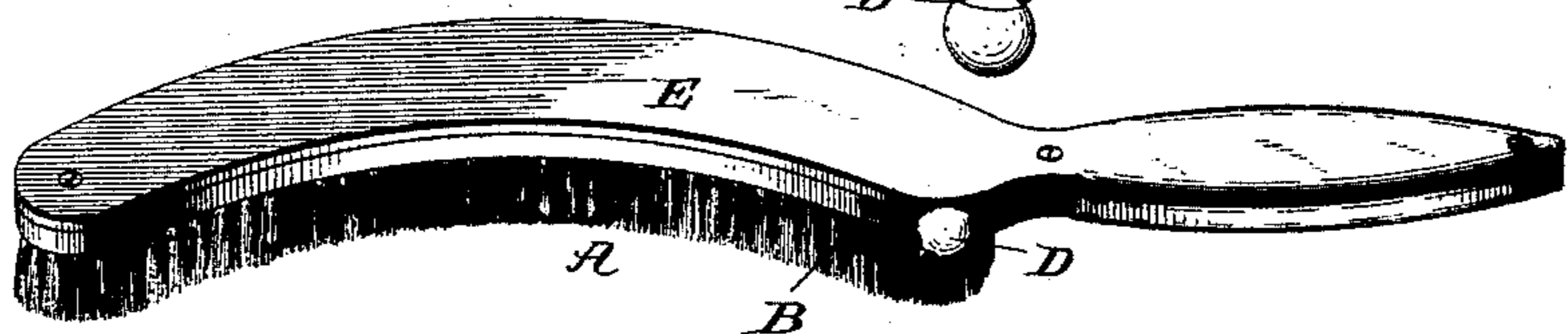
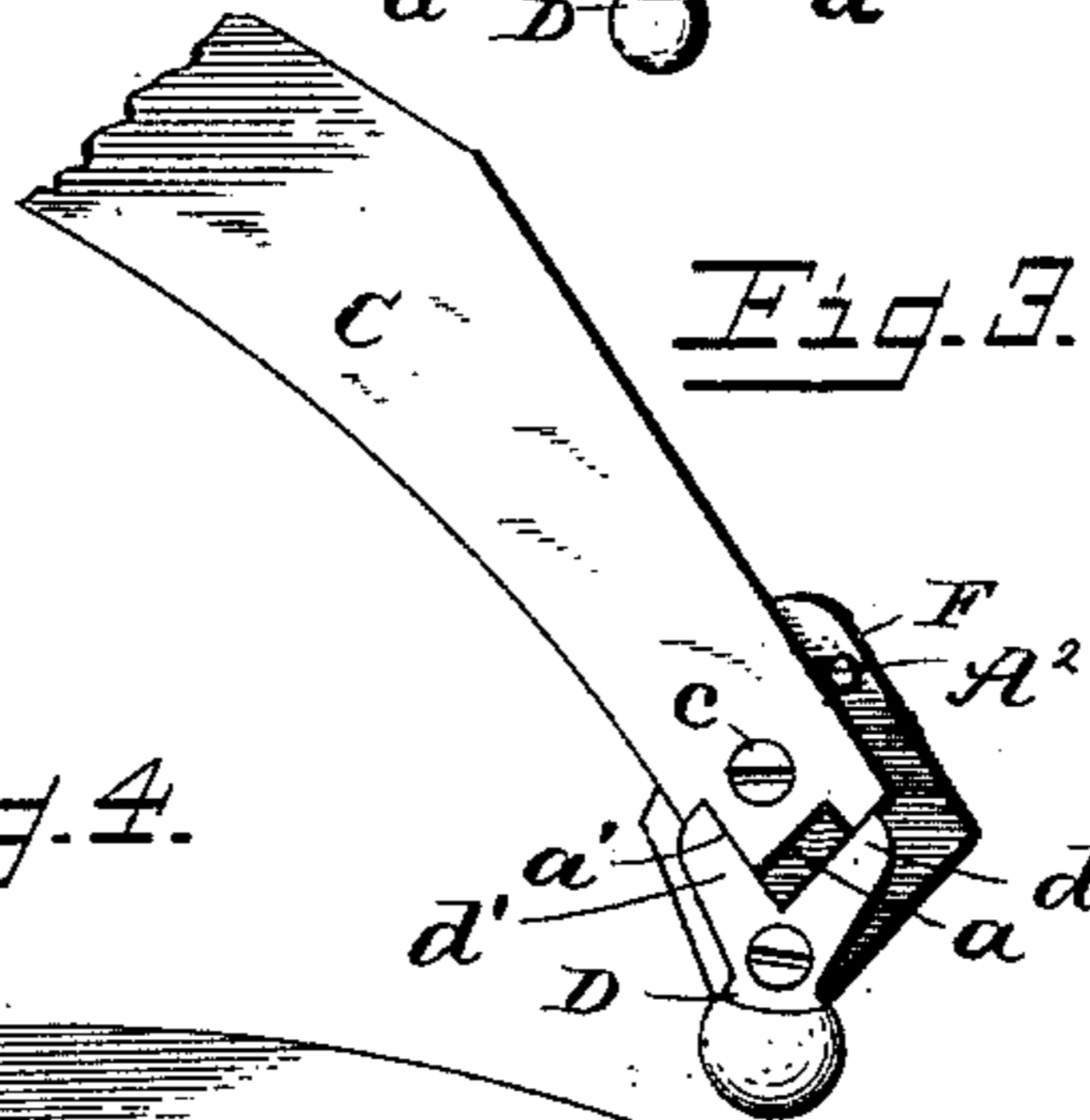
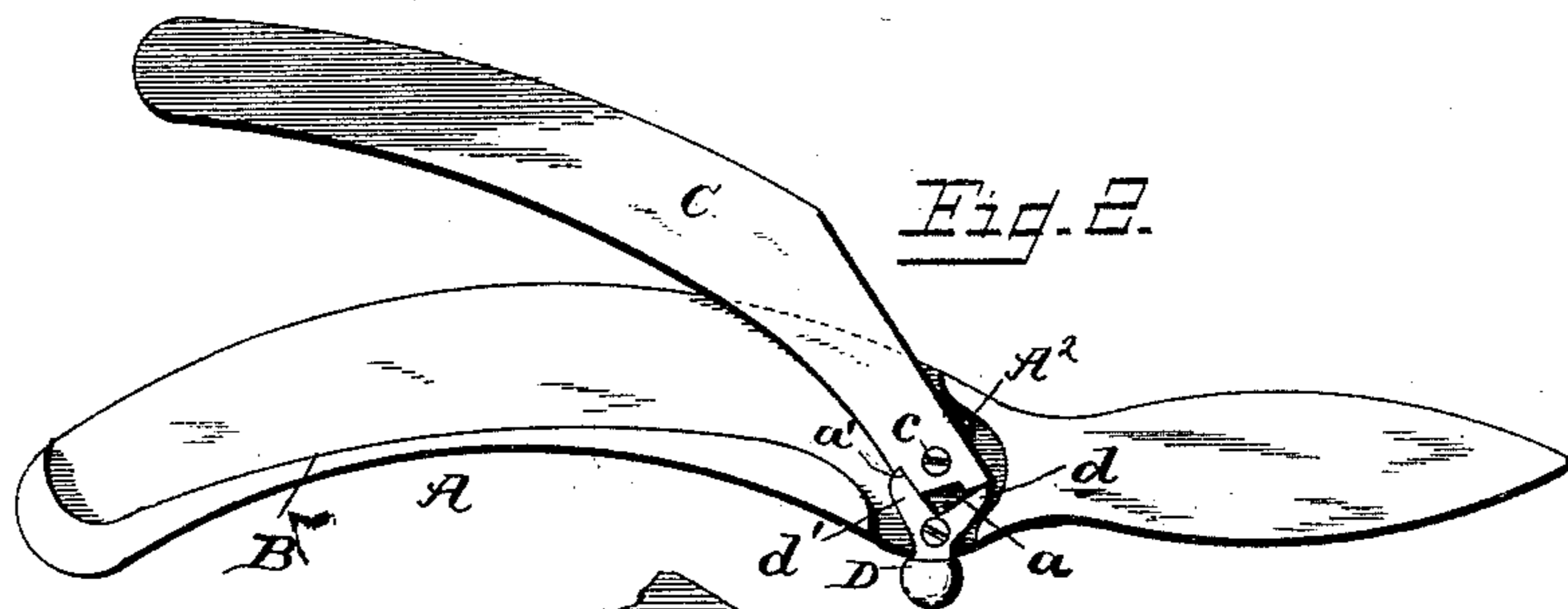
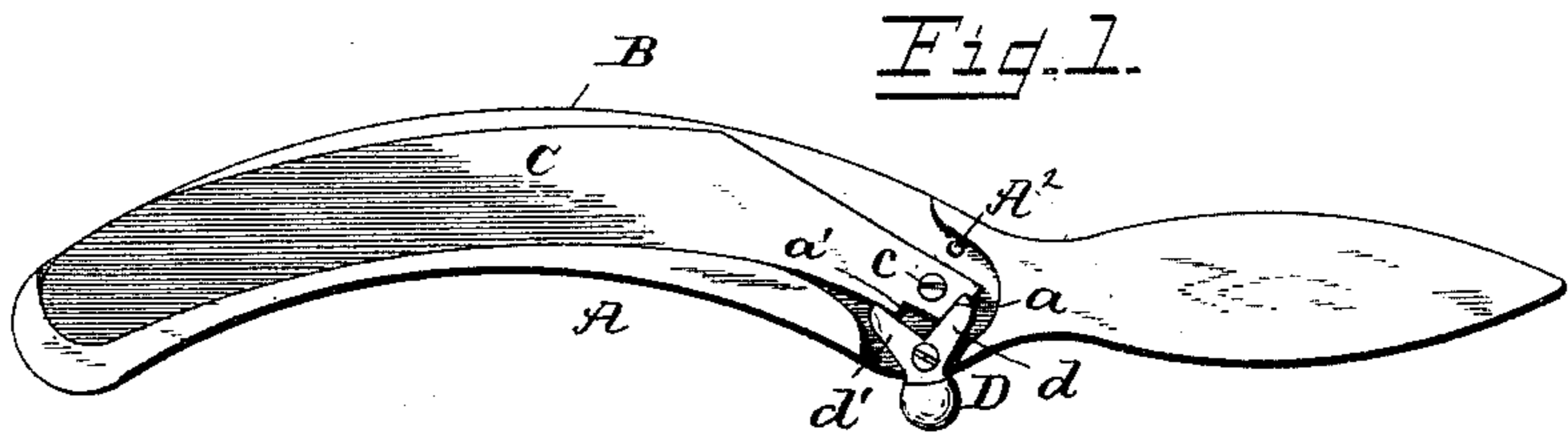


(Model.)

B. M. WOODARD.
COMBINED CRUMB BRUSH AND SCRAPER.

No. 410,476.

Patented Sept. 3, 1889.



Witnesses
 Edwin L. Bradford
 A. M. Robinson.

Inventor
 Bridget M. Woodard
 By her Attorney in fact,
 Chas. E. Barber

UNITED STATES PATENT OFFICE.

BRIDGET MARCILLA WOODARD, OF MANCHESTER, NEW HAMPSHIRE.

COMBINED CRUMB-BRUSH AND SCRAPER.

SPECIFICATION forming part of Letters Patent No. 410,476, dated September 3, 1889.

Application filed May 4, 1885. Serial No. 164,329. (Model.)

To all whom it may concern:

Be it known that I, BRIDGET MARCILLA WOODARD, a subject of Victoria, Queen of Great Britain and Ireland, widow of John C. Woodard, deceased, late of New York, in the State of New York, a citizen of the United States, now residing at Manchester, in the county of Hillsborough and State of New Hampshire, have invented a new and useful Combined Crumb-Brush and Scraper, of which the following is a specification.

My invention relates to improvements on the common crumb-brush; and the object of my improvements is to provide a means in connection with such brush whereby grease and substances that require to be scraped off and that would smear the brush may be removed with a saving of time and trouble.

In the accompanying drawings, Figure 1 is a top plan view of my improved brush and scraper, showing the scraper closed. Fig. 2 is a similar view showing the scraper open. Fig. 3 is a detailed view of the pivotal attachments of scraper and operating-catch. Fig. 4 is a perspective view of my improved brush with the cover over the blade and the blade closed. Fig. 5 is a perspective view of the same, showing the blade or the scraper open.

The brush proper is designated by the letter A, and it is provided with a recess B, which extends along the main portion of the brush, and is provided with the scraper C, which is pivoted at *c* and arranged to close within the recesses in the brush proper. The inner pivoted end of the blade or scraper C is provided with recesses *a* and *a'*.

Opposite the notches *a* and *a'* is a locking-catch D, provided with projections *d* and *d'*,

which fit within the recesses *a* and *a'* in the end of the blade and serve to lock the blade opened or closed, as well as serving as a means of opening and closing the blade. The outside of the thumb-catch or lock D is provided with a head which is adapted to be operated by the thumb or finger of the operator.

The brush is provided with a removable cover E, which may be fastened to the brush in any suitable manner. A pin A² limits the outward movement of the blade or scraper, as will be readily understood. In the device shown in Figs. 1 and 2 the cover E is removed.

In Fig. 3 the blade and its locking-catch are shown secured to a plate F.

From the foregoing it will be readily understood that this device can be easily and quickly operated with the least possible expense of physical and mechanical force. When the blade is open, it may be used as a scraper, and when it is closed it will not be in the way and will not in any way impair the usefulness of the brush.

What I desire to secure by Letters Patent, and what I therefore claim, is—

A crumb-brush provided with a recess in its back, in combination with a scraper pivoted within said recess and provided with recesses *a a'* and a pivoted locking-catch having projections which engage said notches, whereby the scraper is projected from and closed within the recess in the brush, all substantially as described, and for the purposes specified.

BRIDGET MARCILLA WOODARD.

Witnesses:

D. F. O'CONNOR,
W. H. MCQUADE.