

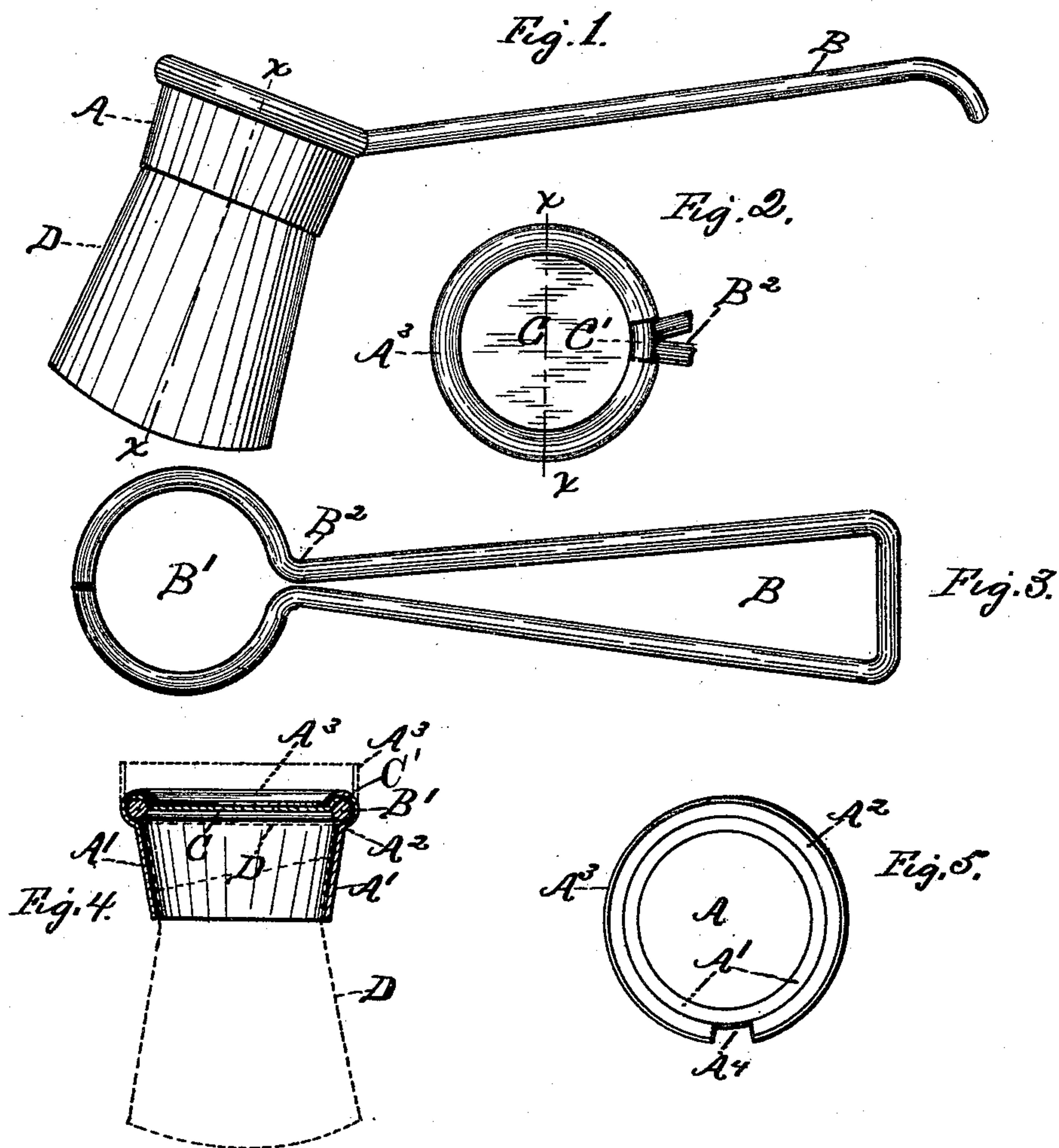
(No Model.)

2 Sheets—Sheet 1.

C. E. THOMPSON.
BRUSH.

No. 464,641.

Patented Dec. 8, 1891.



WITNESSES:

Frank C. Curtis.
Henry J. Speer

INVENTOR:

Charles E. Thompson,
by Geo. M. Wether
Atty.

(No Model.)

2 Sheets—Sheet 2.

C. E. THOMPSON.
BRUSH.

No. 464,641.

Patented Dec. 8, 1891.

Fig. 9.

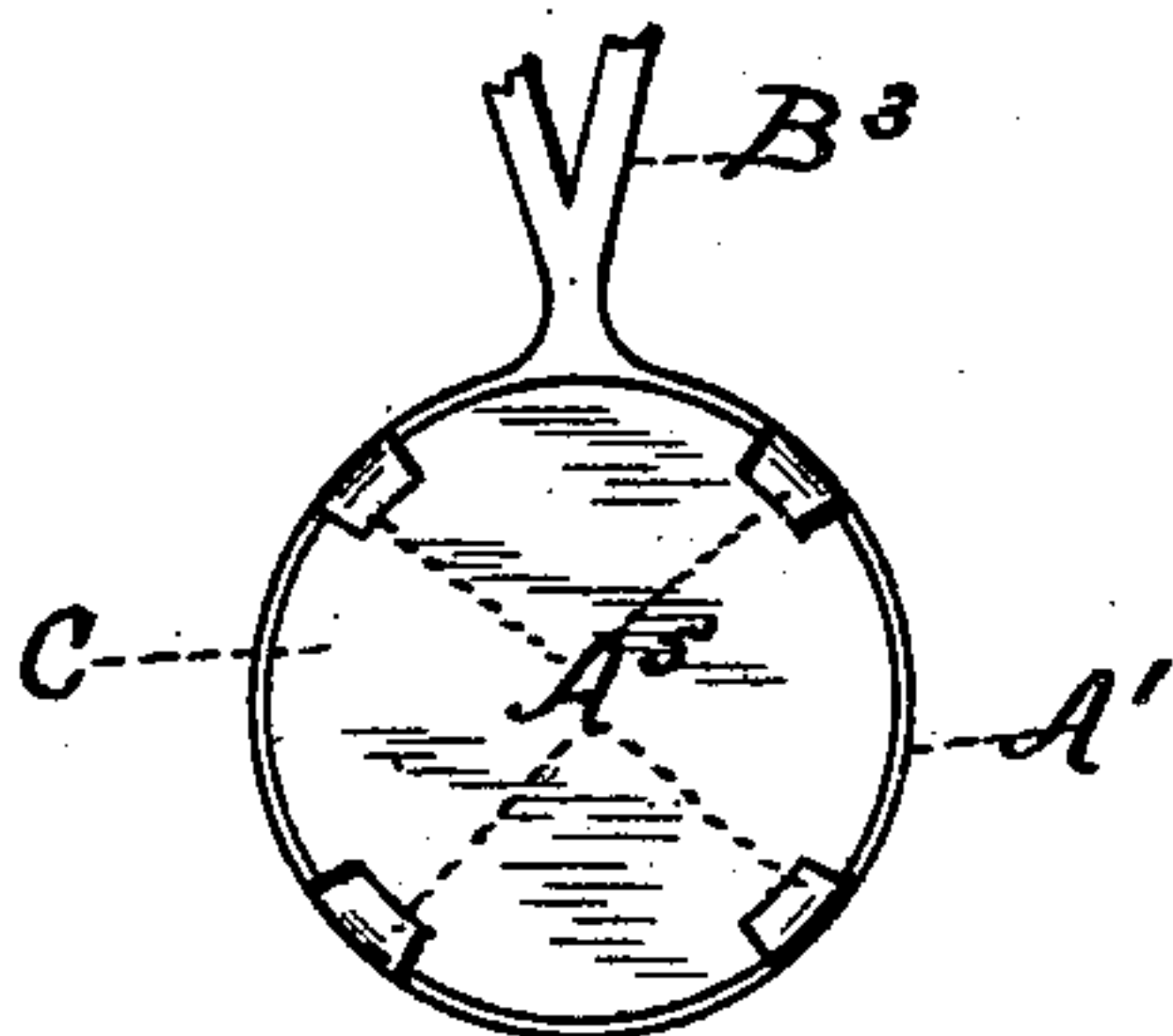


Fig. 10.

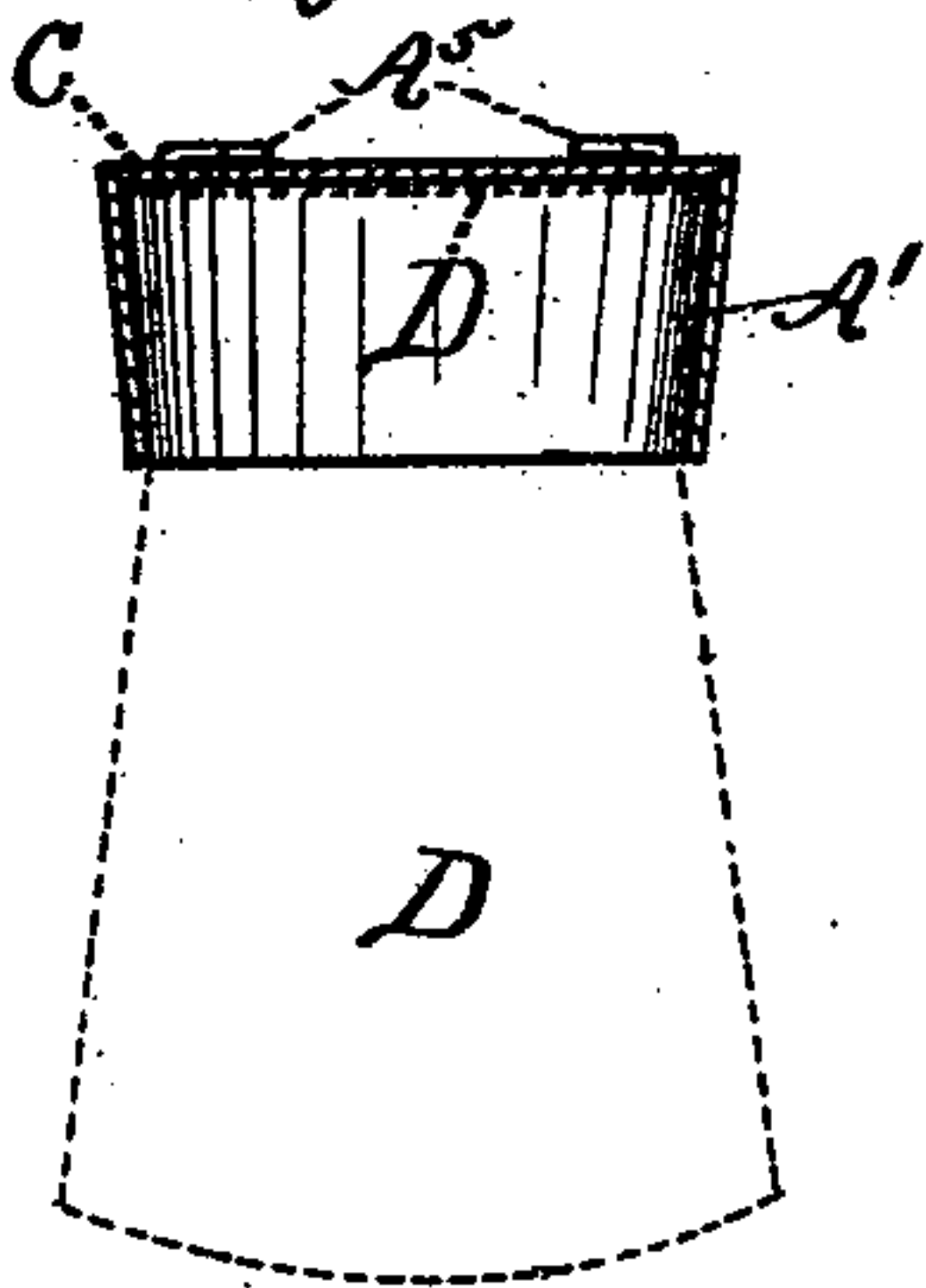


Fig. 7.

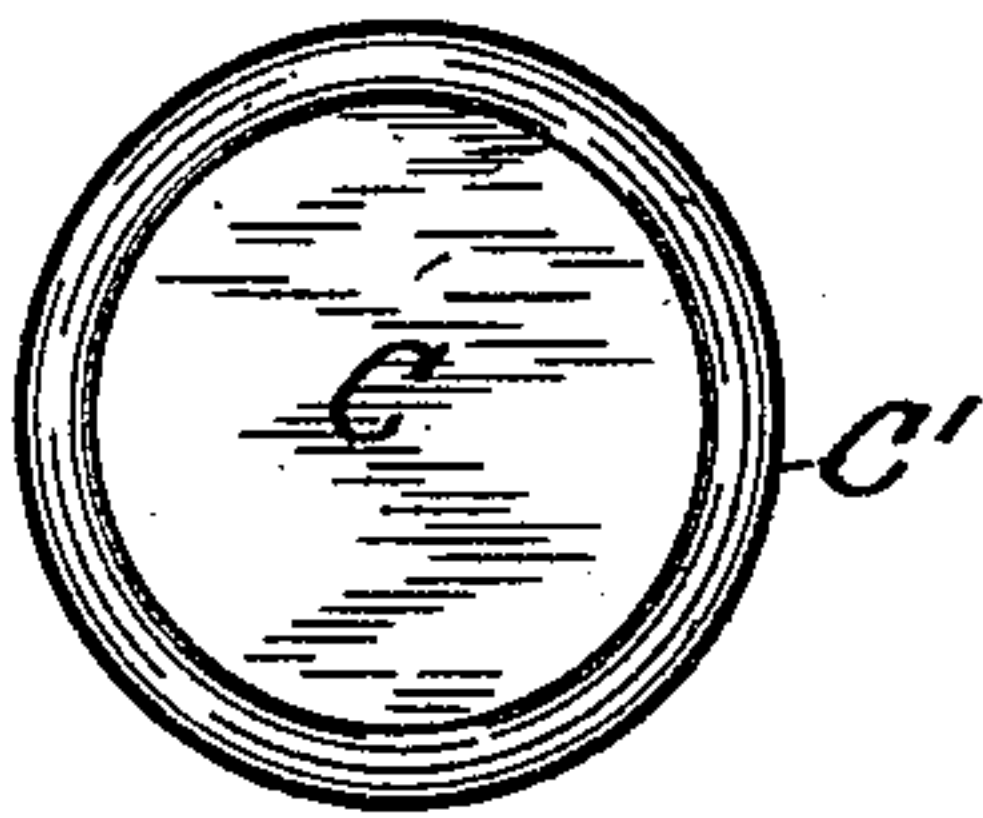


Fig. 8.

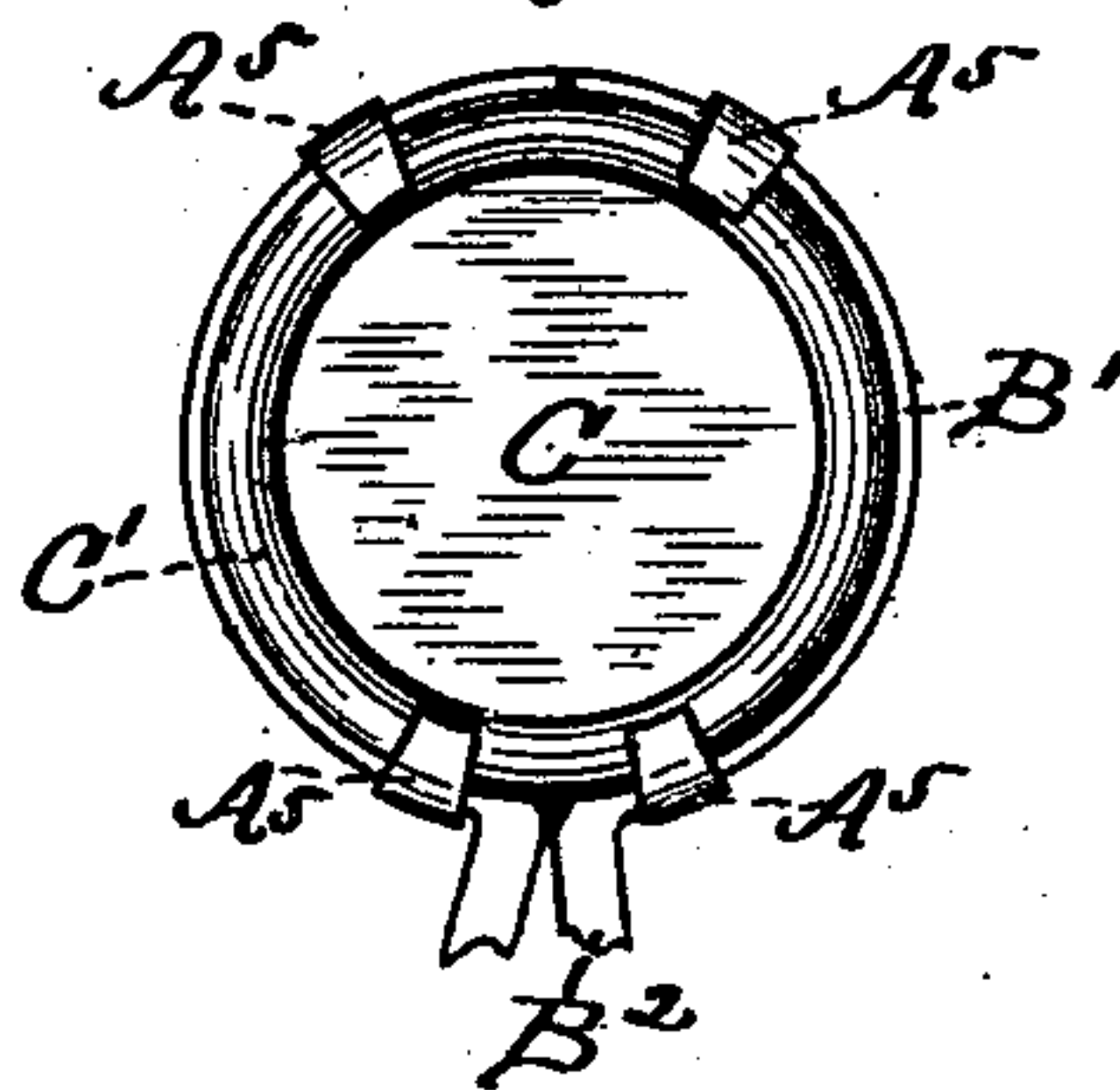
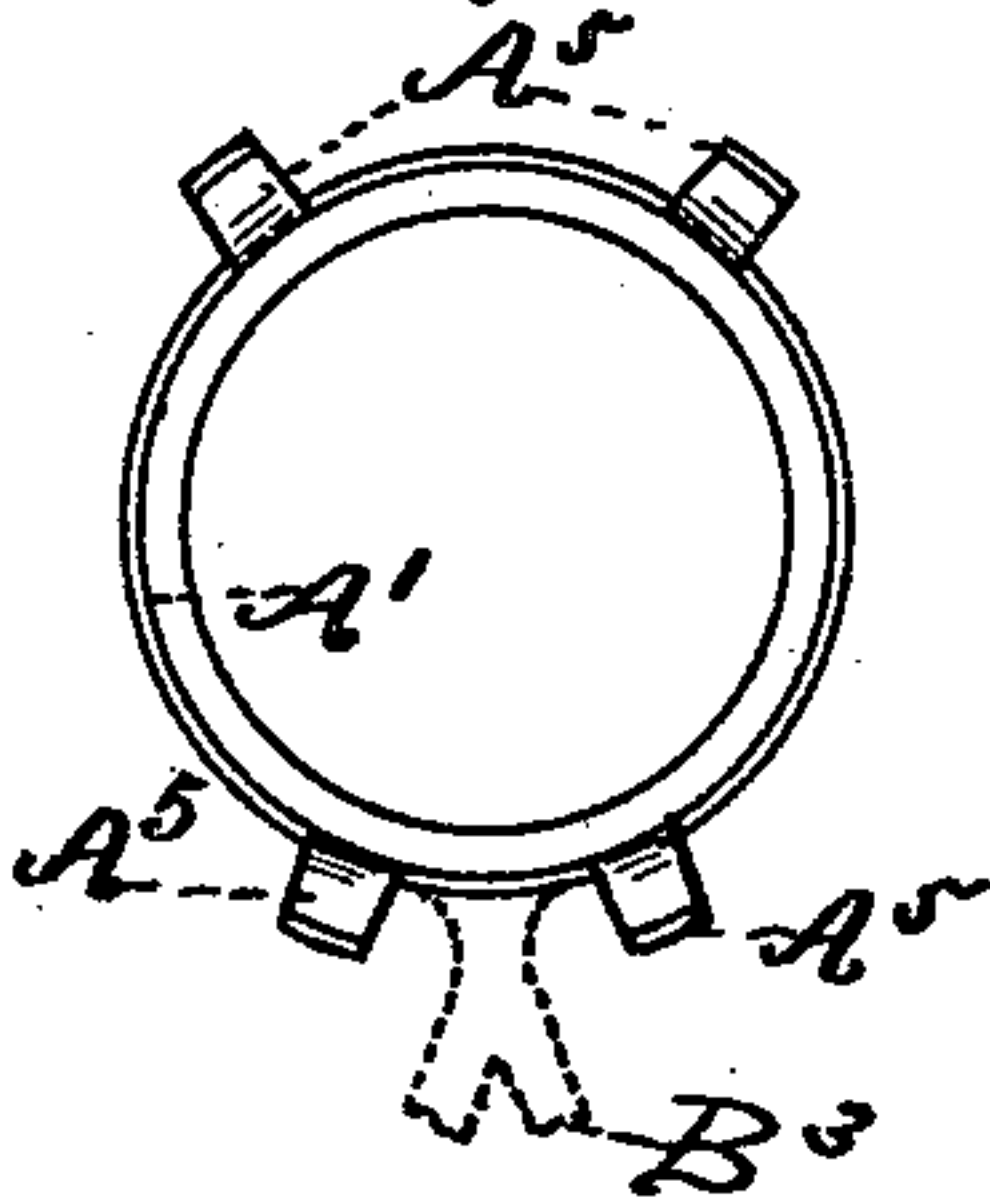


Fig. 6.



WITNESSES:

Frank C. Curtis.
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INVENTOR:

Charles E. Thompson
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att'y-

UNITED STATES PATENT OFFICE.

CHARLES E. THOMPSON, OF LANSINGBURG, NEW YORK.

BRUSH.

SPECIFICATION forming part of Letters Patent No. 464,641, dated December 8, 1891.

Application filed January 15, 1889. Serial No. 296,464. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. THOMPSON, a resident of Lansingburg, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Brushes; and I do hereby declare that the following is a full, clear, and exact description of the invention, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Similar letters refer to similar parts in the several figures therein.

My invention relates to improvements in brushes, and more particularly to that class of brushes known as "daubers;" and it consists of the novel construction and combination of parts hereinafter described, and pointed out in the claims.

Figure 1 of the drawings is a view in side elevation of a finished brush. Fig. 2 is a top plan view of the brush shown in Fig. 1, with a portion of the handle broken away. Fig. 3 is a top plan view of the wire handle detached. Fig. 4 is a central vertical section of the brush-head, taken on the line *xx* in Fig. 2. Fig. 5 is a top plan view of the head-band. Fig. 6 is a similar view showing a modified form of head-band with handle attached. Fig. 7 is a top plan view of the cap or cover detached. Fig. 8 is a view similar to that in Fig. 2, showing the modified form of head-band in Fig. 6. Fig. 9 is a top plan view of the brush, showing a portion of the handle integral with the head-band. Fig. 10 is a central vertical section of the brush-head shown in Fig. 9, taken on a plane right-angular to the handle.

The head of the brush comprises as essential parts a head-band A, made of malleable cast or sheet metal, a knot of bristles D, inserted in the band, and a cap or cover C, held by the band upon the top of the knot of bristles. When desired, the brush may have a handle B, projecting laterally from the head.

In the principal figures of the drawings I have shown my preferred form of sheet-metal head-band, which may be struck up by suitable dies in any known manner from sheet metal to form a band having its lower portion frusto-conical and its upper portion enlarged

and cylindrical, as shown by the dotted lines A³ in Fig. 4, the cylindrical and conical portions being connected by the annular flange A².

The handle shown in Fig. 3 is made of wire and provided with a circular end B', adapted to enter and fit the enlarged end of the head-band. The cylindrical part of the band is cut away on one side to form the slot A⁴, adapted to receive the handle-shank B².

When the cap C is employed in connection with the sheet-metal band and wire handle, it is provided around its edge with the annular concaved flange C', adapted to fit and rest upon the circular end of the handle.

The method of putting the parts together to form a complete brush is as follows: A knot of bristles of the required size to fill the head-band is inserted in the band to about the position outlined by dotted lines in Fig. 4. The circular end of the handle is then inserted within the enlarged end of the band, which end projects up above the knot of bristles, as shown by the dotted lines A³ in Fig. 4, the shank B² of the handle occupying the slot A⁴ in the upper edge of the band. The cap is then laid upon the circular end of the handle in the position shown in Figs. 2 and 4, and the upper edge A³ of the band introverted thereon, as shown in Fig. 4, whereby the parts are all firmly bound together with very little expense of time or material. The bristles are prevented from working up through the band by the cap, and the cap and handle are both held firmly in place by the introverted edge of the band.

It will be obvious to a person skilled in the art of brush-making that it is wholly unnecessary to introvert upon the cap the entire upper edge of the cylindrical part of the band, that a large portion of it may be cut away in precisely the same way that a portion is cut away to form the slot A⁴, thereby leaving only segments A⁵ of the cylindrical portion of the band, as shown in Fig. 6, wherein the band is shown cut away down to the conical portion A', leaving only the segments A⁵ of the cylindrical part A³ and flange A² to be bent down upon the cap to the same position as that occupied by A³ in Fig. 2 and for the same purpose, and shown so bent down in Fig. 8. With the exception of cutting away the portions A² and A³ of the band, the con-

struction shown in Fig. 8 is precisely like that shown in Fig. 2, the former construction being therefore only a slight modification of the latter.

- 5 The construction is still further modified when the head-bands are made of malleable cast metal, as shown in Figs. 9 and 10, by casting the handle B^3 integral with the lower frusto-conical portion A' of the head-band.
- 10 The handle projects laterally from the head as the wire handle did. The wire handle and its circular end being dispensed with, the cap is made flat, as shown, and rests directly on the knot of bristles, where it is held by the
- 15 segments A^5 , cast integral with the band and introverted thereon, as before described. The introverted edge A^3 of the band (shown bent down upon the cap in Fig. 2) is only a large segment bounded at each end by the slot A^4 .
- 20 The difference between it and the segments A^5 is substantially one of degree or size only.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a brush, the combination, with a brush-head and a band inclosing the head, of a cap held upon the top of the head by the overlapping edge of the band, substantially as described.

2. In a brush, the combination, with a brush-head consisting of a single knot of bristles and a band inclosing the knot of bristles, of a cap placed upon the top of the knot of bristles and secured in position by overlapping portions of the band, substantially as described.

In testimony whereof I have hereunto set my hand this 11th day of January, 1889.

CHARLES E. THOMPSON.

Witnesses:

GEO. A. MOSHER,

W. H. HOLLISTER, Jr.