

(No Model.)

A. P. HAYS.
COMBINED DENTAL BITE AND IMPRESSION CUP.

No. 548,754.

Patented Oct. 29, 1895.

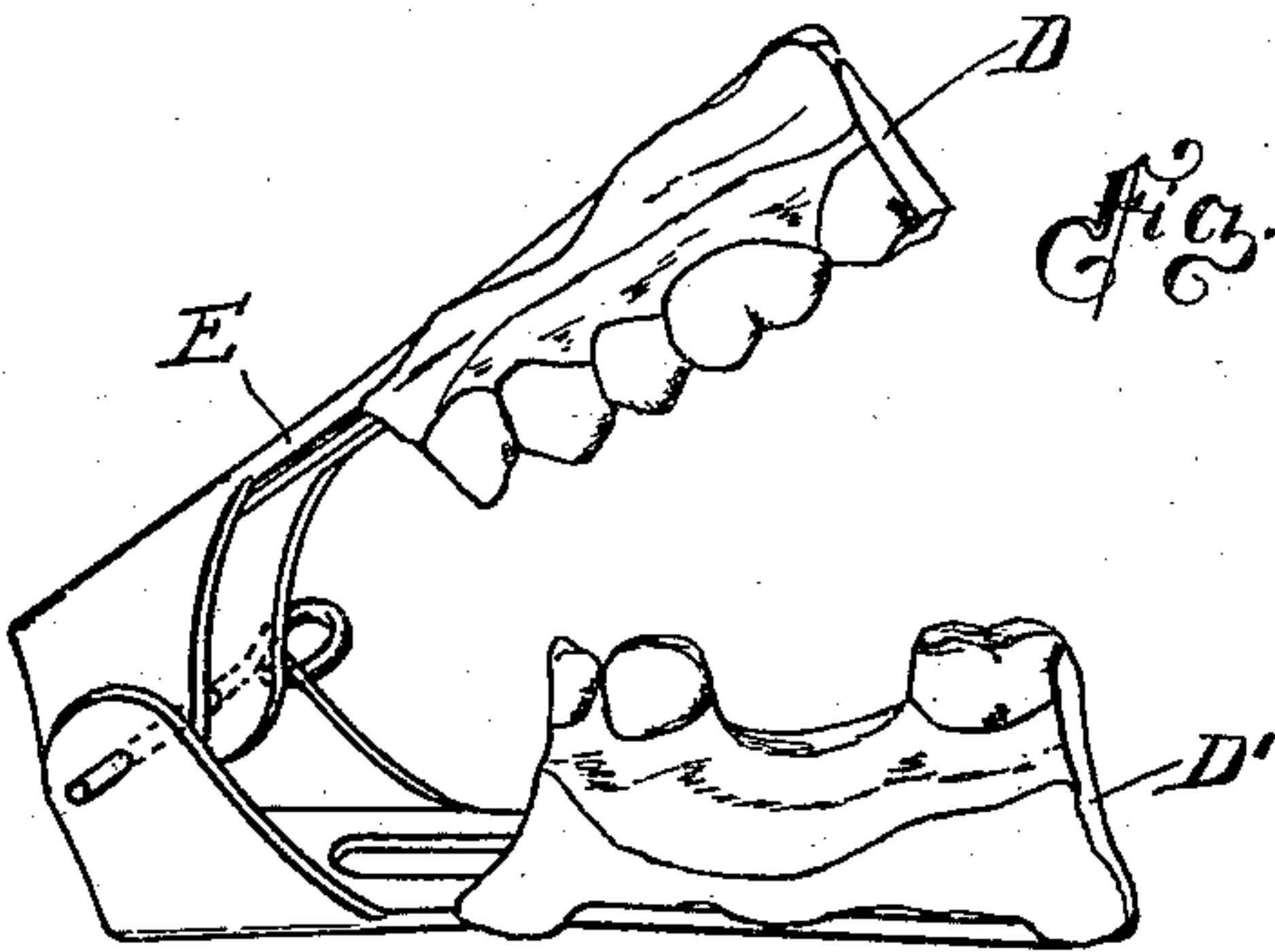
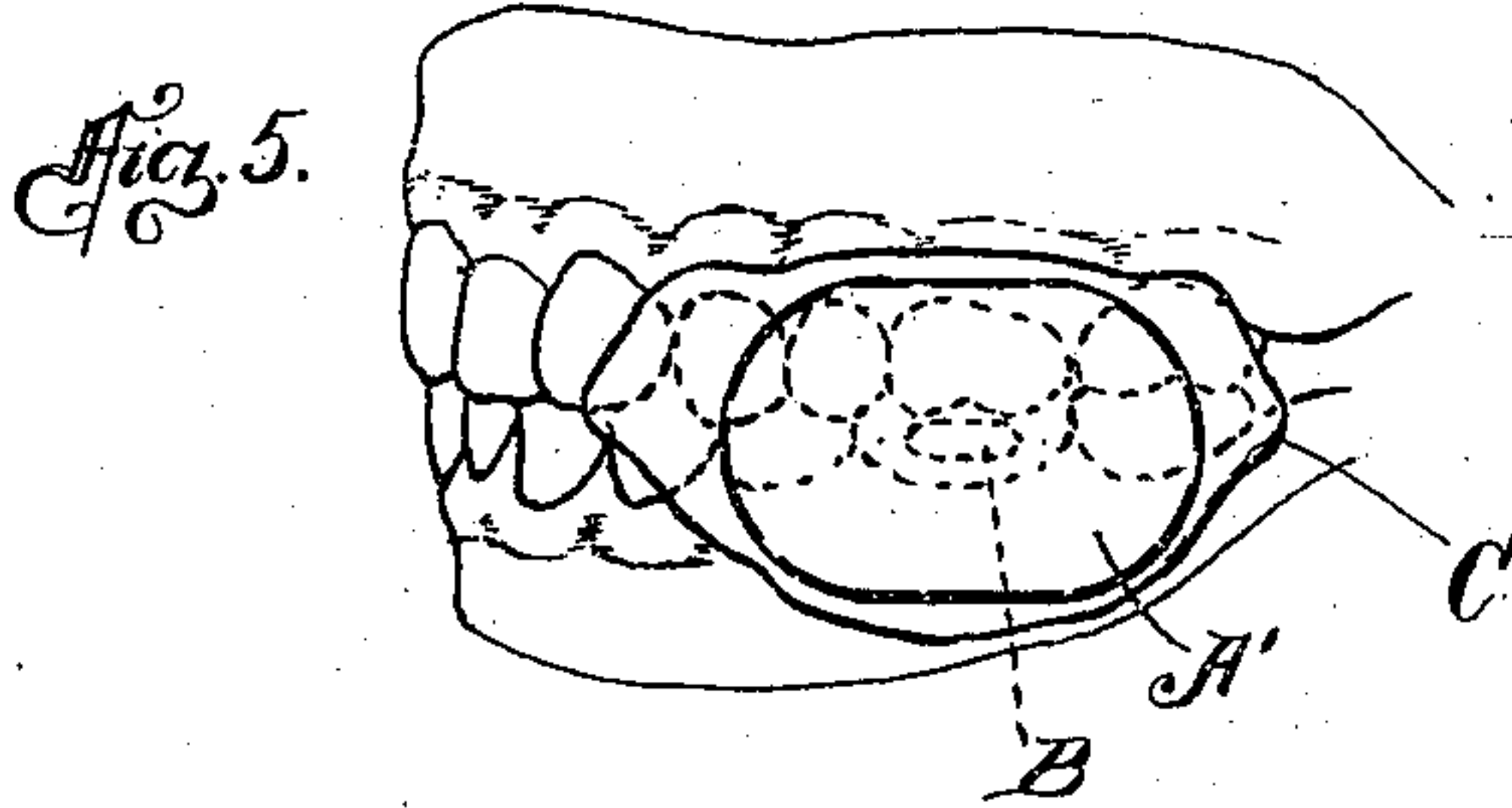
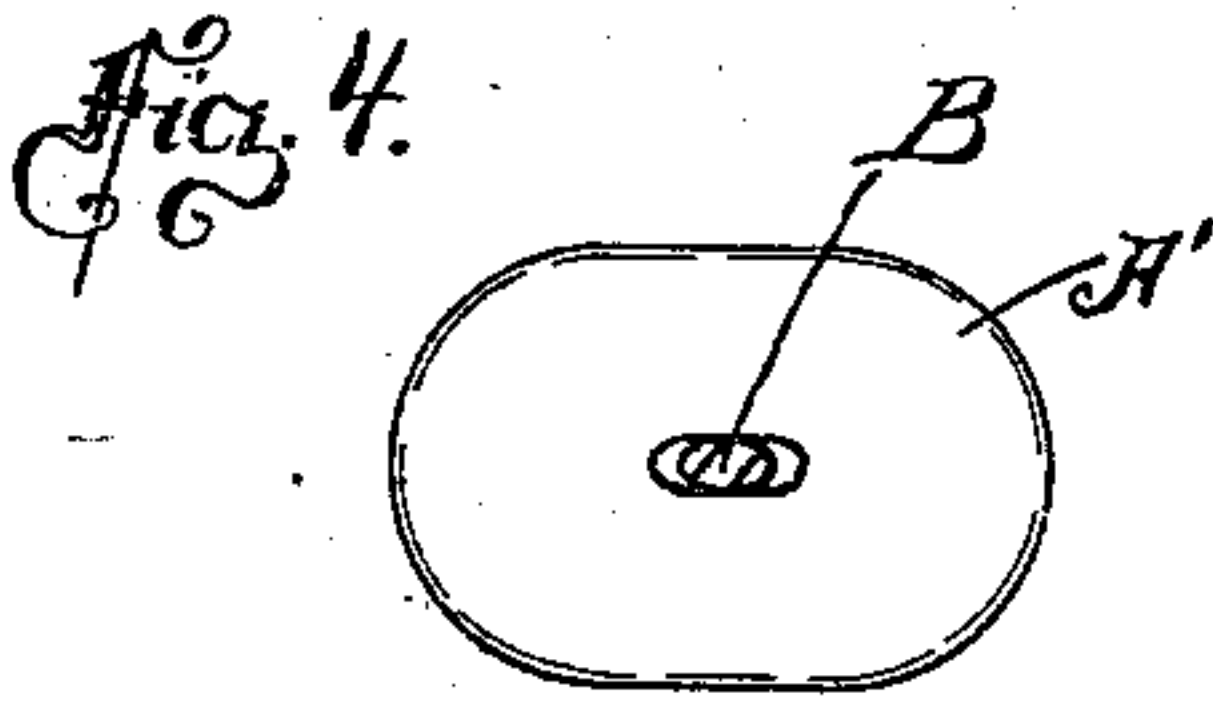
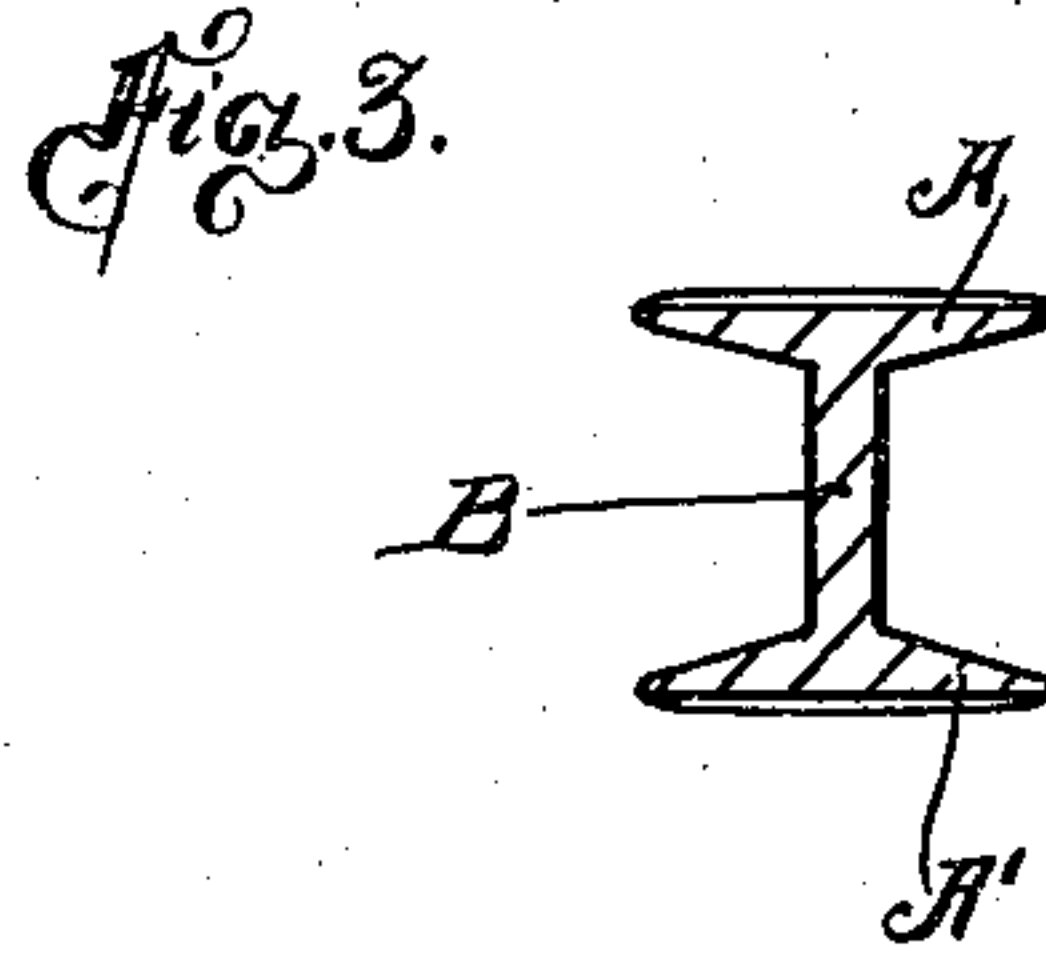
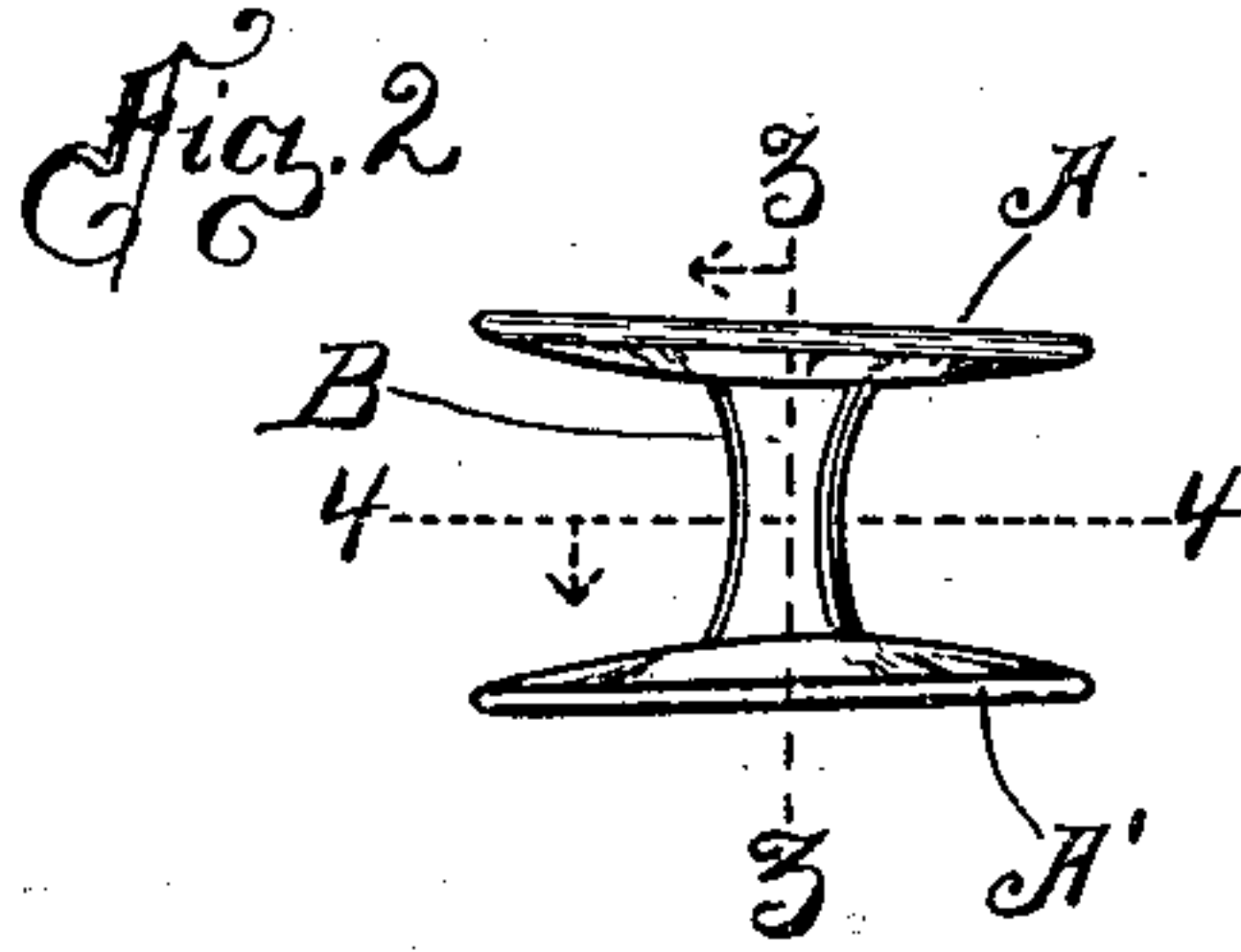
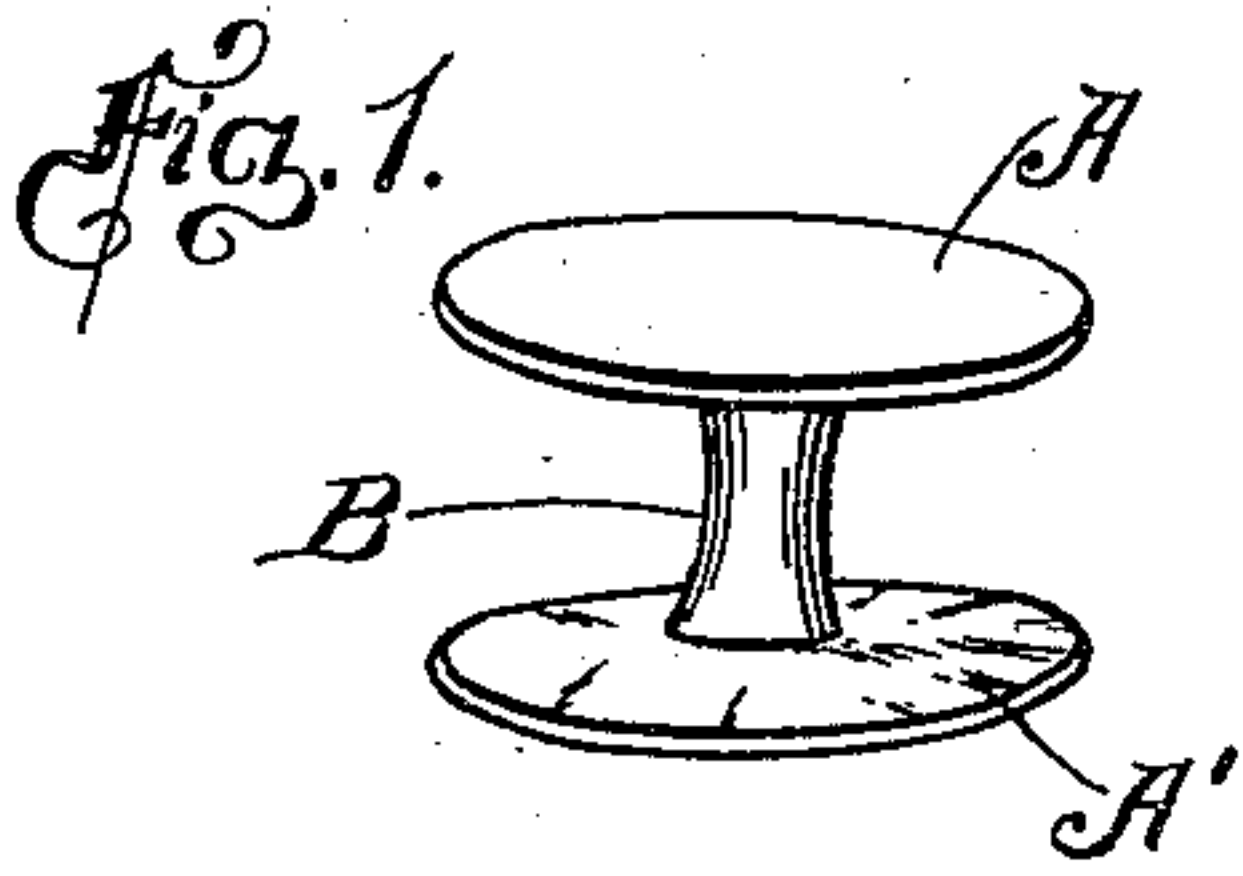
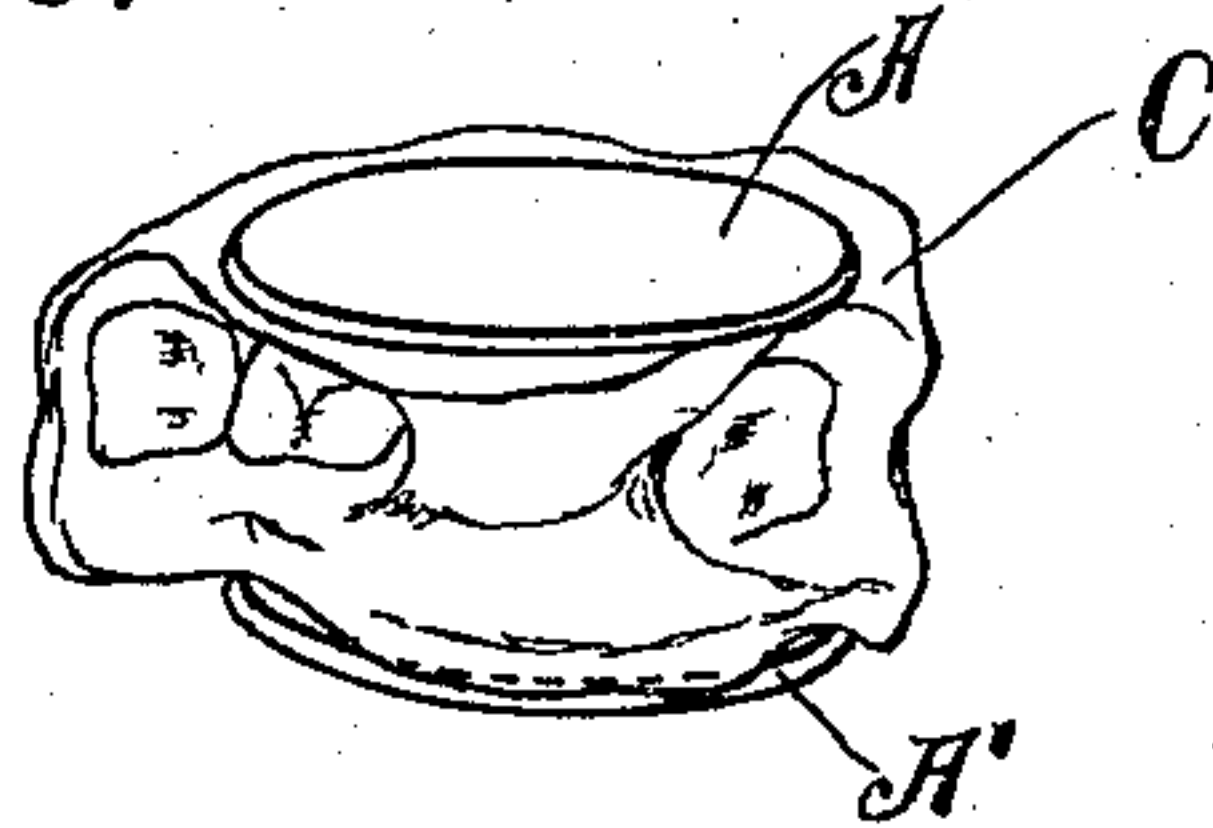


Fig. 6.



Witnesses.

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UNITED STATES PATENT OFFICE.

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COMBINED DENTAL BITE AND IMPRESSION CUP.

SPECIFICATION forming part of Letters Patent No. 548,754, dated October 29, 1895.

Application filed March 21, 1895. Serial No. 542,577. (No model.)

To all whom it may concern:

Be it known that I, ADAM PIERSON HAYS, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a new and useful Combined Bite and Impression Cup or Tray for Dental Use, of which the following is a specification.

My invention is designed for crown and bridge work, and the objects of my invention are to combine at one operation the taking of the impression and bite and to provide simpler means than heretofore employed for securing articulation during the process of constructing the bridge.

By my invention I am enabled at one compression of a single piece of modeling compound or other suitable plastic material to produce the combined impression and bite. In the accompanying drawings, Figure 1 is a perspective view of my improved bite and impression tray. Fig. 2 is a plan of the same. Fig. 3 is a section on line 3 3, Fig. 2. Fig. 4 is a section on line 4 4, Fig. 2. Fig. 5 shows the tray in use in taking an impression. Fig. 6 shows the completed bite and impression, and also shows the plaster-of-paris casts from the same completed and ready for use in attaching the bridge, or for any other desired operation.

My newly-invented bite and impression tray consists in the two mold-retaining flanges A A', connected by a space-bar B. The flanges are preferably slightly oblique to each other, diverging lengthwise, are convex on one face, and are arranged with their convex faces toward each other.

I will now describe the method of using my new bite and impression tray.

First, a sufficient quantity of modeling compound C is applied around the space-bar B between the retaining-flanges to fill the space between the flanges. The same is then inserted into the mouth of the patient into the space to be filled and the patient is required to close the mouth to produce a perfect articulation. Then the compound is cooled to

harden it, after which the patient opens the mouth and relieves the tray, which is then removed and contains the mold for the bite and impression. The impression is then filled with plaster and reversed and the bite filled with plaster and the two casts allowed to harden, after which the casts D D' are placed on the articulator E, ready for the operation of articulating.

As shown in the drawings, the flanges are preferably elliptic in outline.

The combined bite and impression tray may be made in different sizes for different work, as required.

The purpose of the oblique arrangement of the flanges is to adapt the tray to more perfectly fit to the special conditions, and in practice the trays will be in sets of irregular shapes, so as to fit different operations. In extremely wide jaws the larger size trays can be used and turned with the wide end front or back, as the operation may require. The inner faces of the flanges are convex and fit more readily to the bite and impression.

The tray is made of tin and lead composition or other suitable material, and if occasion requires the angle of the flanges can be altered by bending the space-bar.

Now, having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combined bite and impression tray for dental use set forth consisting of the space bar and the mold retaining flanges connected by the space bar.

2. The combined bite and impression tray for dental use set forth consisting of the space bar, and the mold retaining flanges arranged slightly oblique to each other diverging lengthwise, convex on one side and connected by the space bar with their convex faces toward each other.

ADAM P. HAYS.

Witnesses:

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ALFRED I. TOWNSEND.