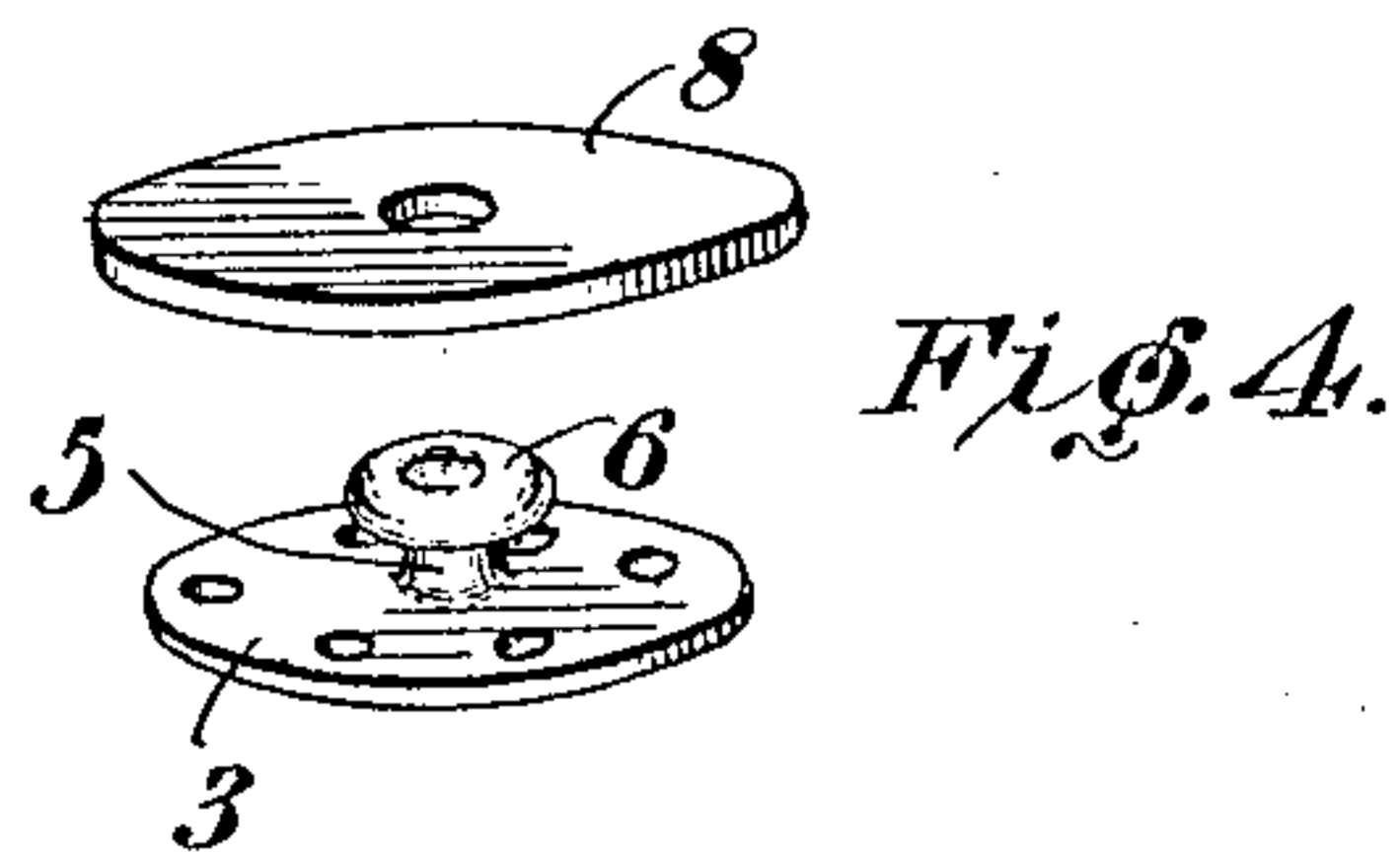
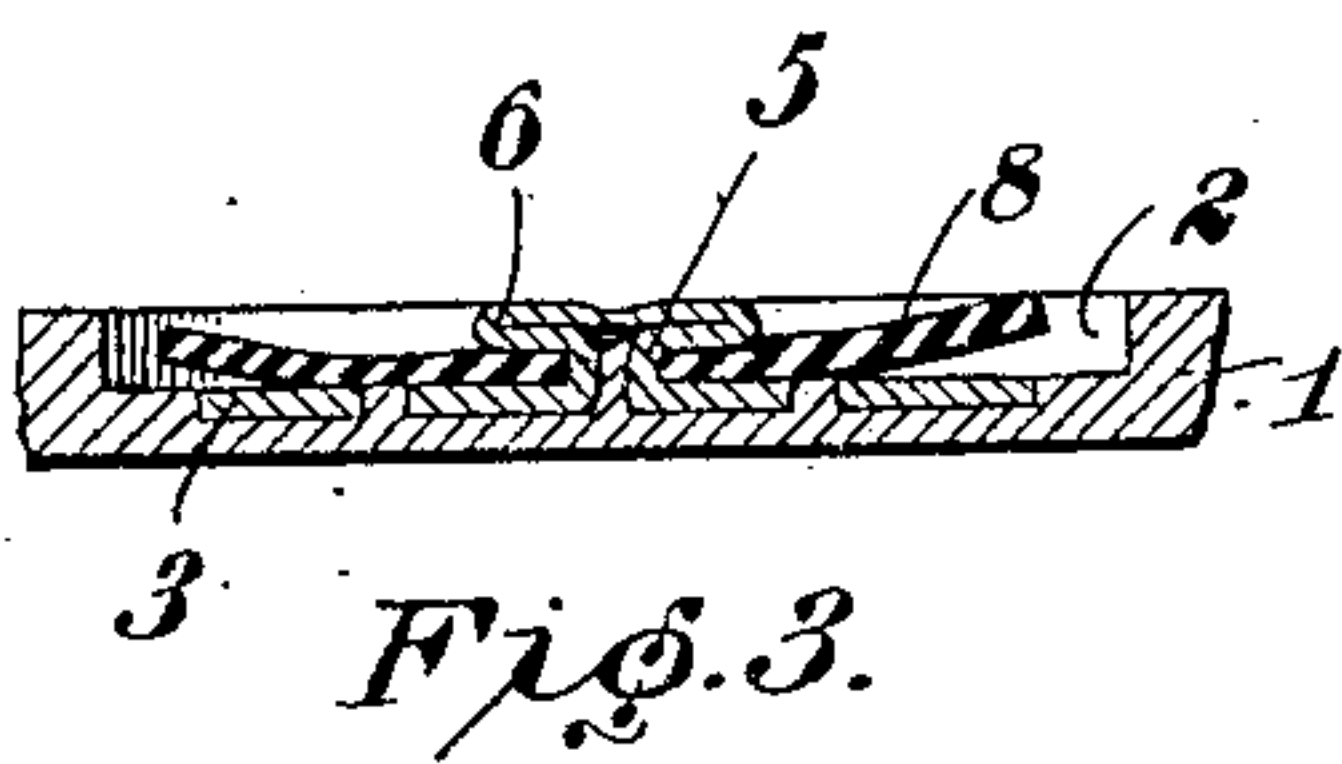
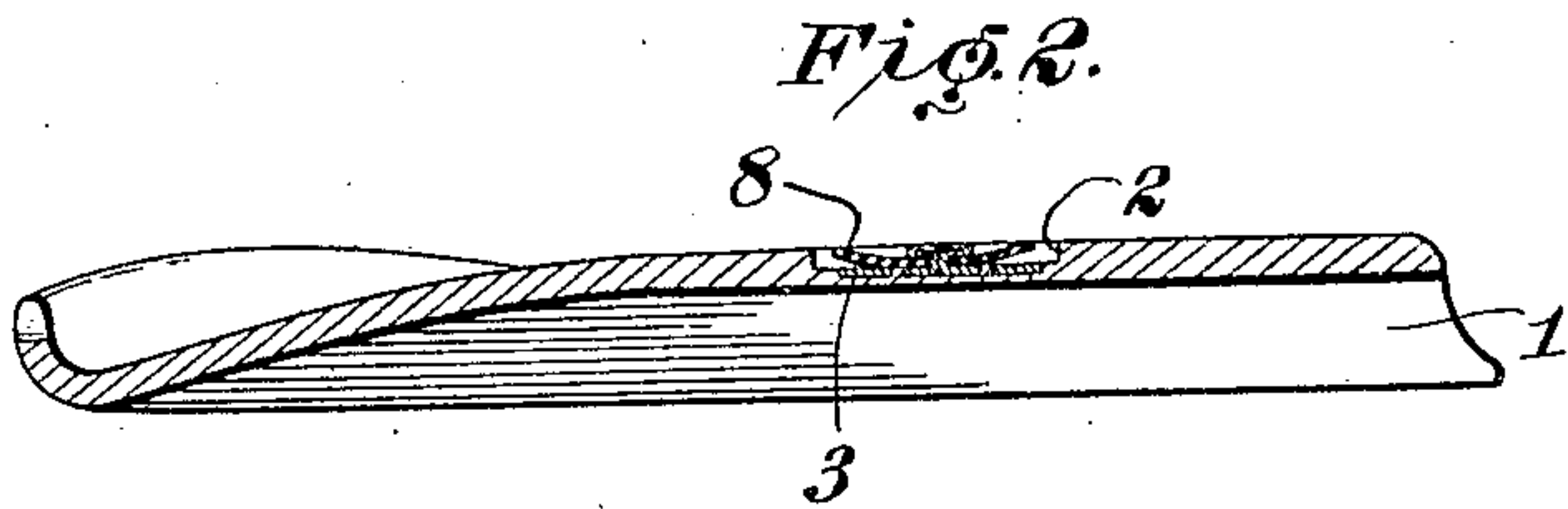
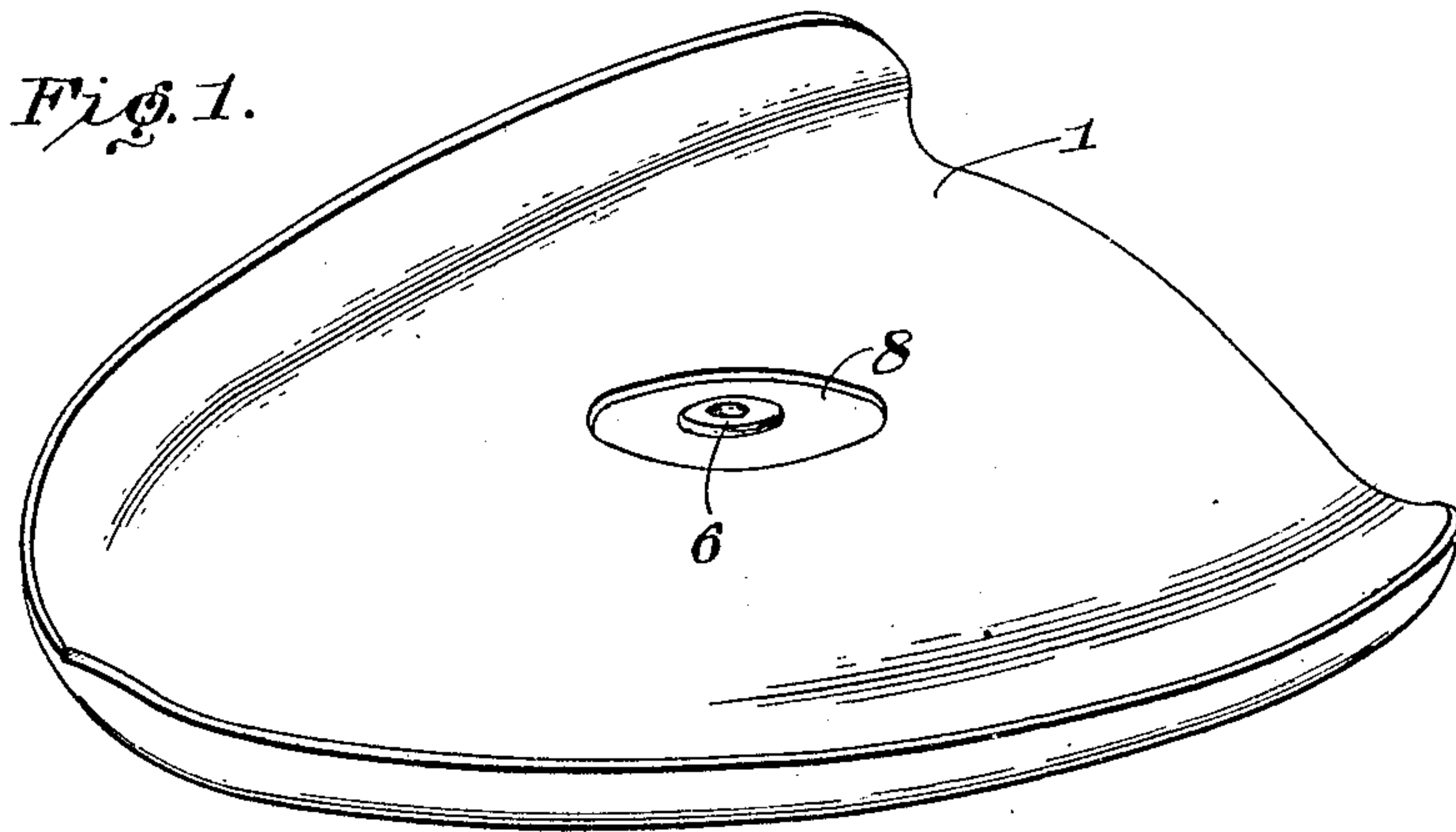


H. R. PRIEST.
 BUTTON FOR SUCTION CUPS.
 APPLICATION FILED AUG. 24, 1908.

912,977.

Patented Feb. 16, 1909.



Witnesses
[Signature]
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Inventor
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UNITED STATES PATENT OFFICE.

HARRY R. PRIEST, OF LOUDONVILLE, OHIO.

BUTTON FOR SUCTION-CUPS.

No. 912,977.

Specification of Letters Patent.

Patented Feb. 16, 1909.

Application filed August 24, 1908. Serial No. 450,015.

To all whom it may concern:

Be it known that I, HARRY R. PRIEST, citizen of the United States, residing at Loudonville, in the county of Ashland and State of Ohio, have invented certain new and useful Improvements in Buttons for Suction-Cups, of which the following is a specification.

This invention relates to the art of mechanical dentistry, and particularly to artificial dentures, and the invention has for its object a simple, and improved construction of button for holding a suction cup to a denture, and the invention consists in certain arrangements and combinations of the parts that I shall hereinafter fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings in which:

Figure 1 is a perspective view of a denture provided with a suction cup, the device embodying my invention; Fig. 2 is a transverse sectional view thereof; Fig. 3 is a fragmentary sectional view on an enlarged scale; and, Fig. 4 is a detail perspective view of a suction cup, the cup and button detached.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

Referring to the drawing, the numeral 1 designates an artificial denture or plate, that for an upper set of artificial teeth being illustrated in the drawing, although it is to be understood that my invention is equally applicable to lower dentures. The plate 1 is formed with a recess 2 for the reception of the button and suction cup, and the button in the present invention is composed of a single piece of aluminum or some similar light and ductile metal which is so stamped and shaped as to produce an annular outstanding flange 3 designed to be partially embedded and vulcanized in the plate as clearly illustrated in the drawing, said flange being formed with any desired number of openings or apertures through which the vulcanized rubber or the like passes in order

to assist in securely holding the button in place. The button is also formed with an integral upstanding neck 5 and a disk-like head 6, the latter being preferably formed with a central depression as shown.

8 designates the rubber cup which is formed with a central hole by which it may be stretched over the head 5 and secured to the neck 5 of the button.

In the manufacture of artificial dentures, it is customary to secure the rubber disk by a pin or rivet comprising end pieces one of which is vulcanized in the denture and connected to the other end piece by a rivet, the button being thereby composed of three distinct parts. This method of manufacture is not only expensive, and time consuming, but it is disadvantageous in that the rivet or some of the other parts are liable to be lost or misplaced. I therefore do not claim such prior structures, but a button which is composed of a single piece or integral structure, as illustrated in the accompanying drawing and described in the foregoing specification, the button being capable of being easily vulcanized in the plate and being securely held in place therein after the plate has been completed.

Having thus described the invention, what is claimed as new is:

In a dental plate securing device, the combination of a plate formed with a recess, of a button having an integral outstanding perforated flange, and a neck piece, and a disk-like head slightly spaced from the flange, the said flange being embedded in the plate at the recess thereof, and the material of which the plate is formed passing through the apertures or perforations of the flange, so as to securely bind the flange therein, and a suction cup secured on the neck of the button and retained therein by the head of the button as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

HARRY R. PRIEST. [L. s.]

Witnesses:

C. B. SCOTT,
E. F. SHELLEY.