

W. B. MILLER.
DENTAL INSTRUMENT.
APPLICATION FILED MAY 13, 1909.

943,884.

Patented Dec. 21, 1909.

Fig. 1.



Fig. 2.

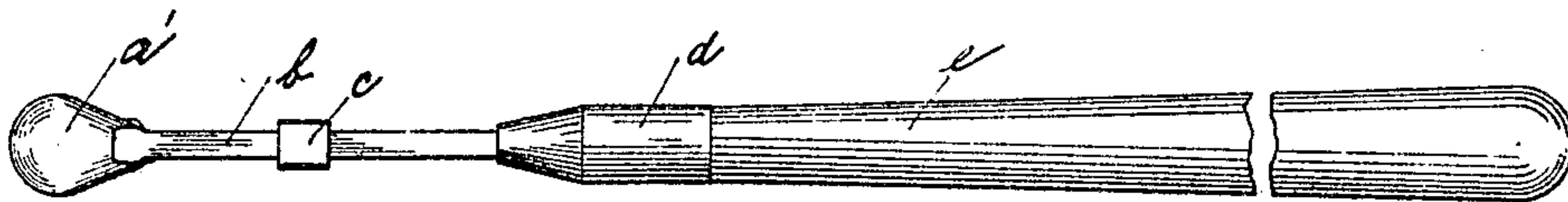


Fig. 3.

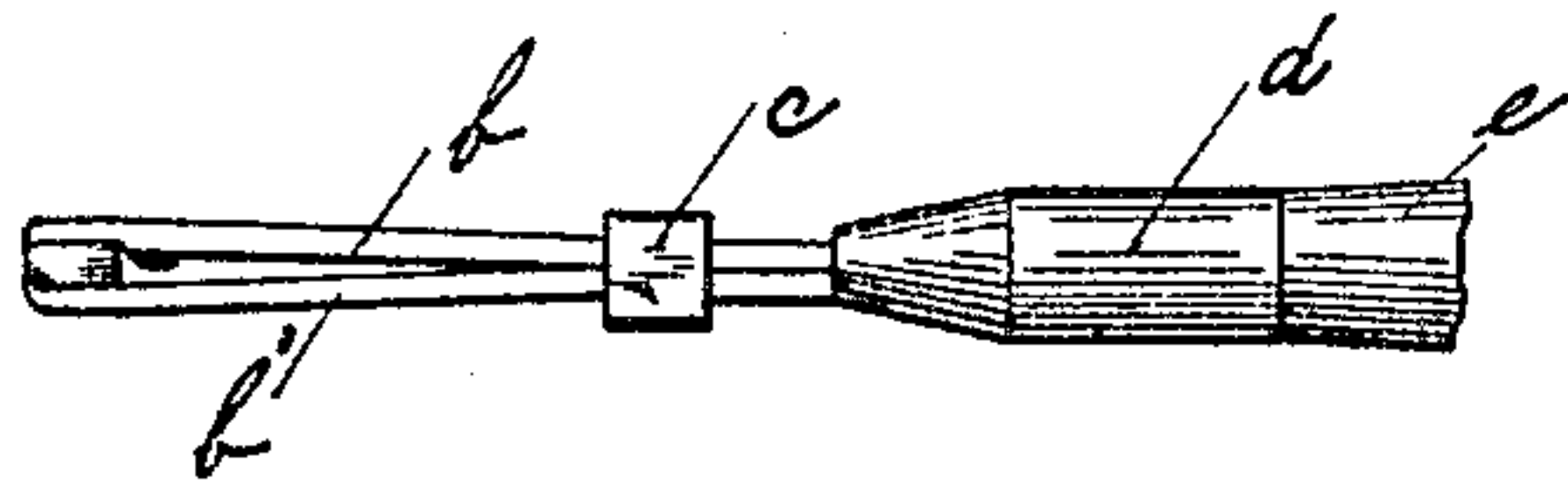


Fig. 4.

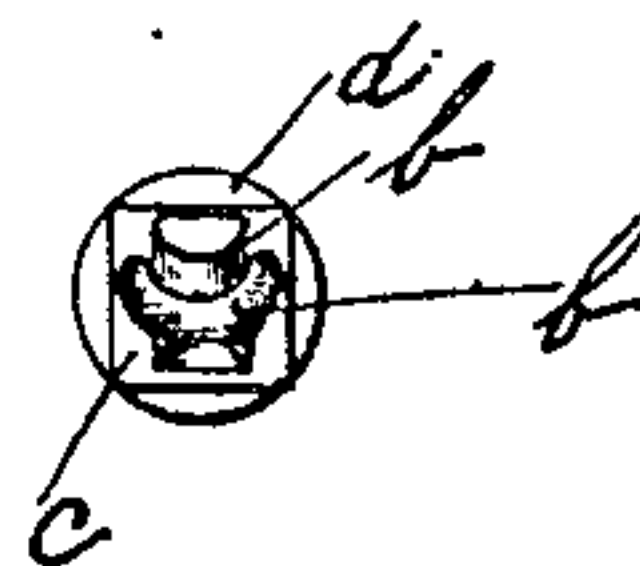


Fig. 5.



Witnesses

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DENTAL INSTRUMENT.

943,884.

Specification of Letters Patent.

Patented Dec. 21, 1909.

Application filed May 13, 1909. Serial No. 495,828.

To all whom it may concern:

Be it known that I, WILLIAM B. MILLER, a citizen of the United States, residing at Altoona, in the county of Blair and State of Pennsylvania, have invented new and useful Improvements in Dental Instruments, of which the following is a specification.

This invention relates to dental instruments that are used for the application of medical preparations, cement, etc., directly to the teeth, gums, or other portions of the mouth, and this instrument is particularly adapted for using interchangeable points intended to hold the liquid to be applied. It is particularly designed for the treatment of pyorrhea and other allied alveolar complications which heretofore were of doubtful termination, and is known as the "Miller" pyorrhea pen and medicinal applicator.

As an illustration of such an instrument I make reference to the accompanying drawings, in which—

Figure 1 shows the instrument with a point clamped at its widest portion. Fig. 2 shows the same instrument with the point clamped at its narrowest portion so as to produce a spoon shaped end. Fig. 3 is a side view of the clamp. Fig. 4 is an end view of the clamp, and Fig. 5 is a plan of one of the points when flattened out.

Similar letters refer to similar parts through the several views.

The instrument consists of a handle "e" of any desired shape or construction having a ferrule "d" for holding the principal part of the instrument. Into this ferrule "d" is fastened by means of a screw or otherwise, a clamp "b b'". The two portions "b" and "b'" of this clamp are so designed that normally they are separated by the spring action of the arms themselves, and they are brought together by means of the slide "c" which surrounds said clamping arms. The ends of the clamp are formed so that one has a depression or concave portion and the other has a convex portion fitted into this concave portion of the clamp. By this means a piece

of flexible material such as "a" or "a'" is made spoon shaped by clamping it between the two portions just described. These flexible pieces, hereinafter called points, can be made of any desired shape or size and when they are made in the shape shown in Fig. 5 of the drawing, the larger end is clamped when intended for use in applying treatment to the teeth, but when found more convenient, the narrow end can be clamped instead, which forms a spoon.

The principal portion of this invention is the flexible points and the means of clamping the same so as to allow the maximum amount of liquid to be held by the instrument for application to the infected parts. This is increased by curving the point so that capillary attraction will hold the liquid in addition to the ordinary amount that would be held by mere adhesion. The point can be made out of celluloid or any other flexible material not readily affected by the ordinary medicines or liquids used in dentistry.

With this and other objects in view, I claim—

1. A flexible point for the application of liquids to infected parts, consisting of a strip of film celluloid having one end rounded and enlarged and the other pointed so that the curving of the large end will produce a curve all along to the point.

2. The combination with a flexible point for the application of liquids to infected parts, said point consisting of a strip of flexible material having one end rounded and the other end V-shaped, of a clamp for the same, comprising cooperating concave and convex jaws, whereby the clamping of the large end of the point will produce a curve longitudinally of the same to the small end.

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Witnesses:

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