No. 781,420. PATENTED JAN. 31, 1905.

J. R. HALDEMAN.

ARTIFICIAL TOOTH.

APPLICATION FILED JAN. 8, 1904.

Fig. 1.

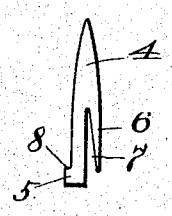


Fig. 2.

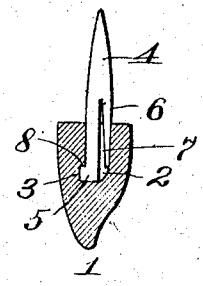


Fig. 3.

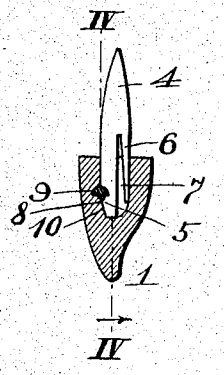
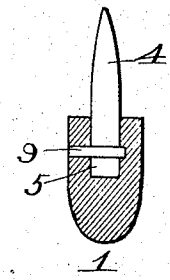


Fig. 4.



Witnesses:

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No. 781,420. Patented January 31, 1905.

UNITED STATES PATENT OFFICE.

JOHN R. HALDEMAN, OF KANSAS CITY, MISSOURI, ASSIGNOR OF ONE-HALF TO OLIVER C. HALDEMAN, OF KANSAS CITY, MISSOURI.

ARTIFICIAL TOOTH.

SPECIFICATION forming part of Letters Patent No. 781,420, dated January 31, 1905.

Application filed January 8, 1904. Serial No. 188,178.

To all whom it may concern:

Be it known that I, JOHN R. HALDEMAN, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Artificial Dentures, of which the following is a specification.

My invention relates to improvements in dentistry; and my object is to provide a crown with a post for permanently securing the crown to natural roots of teeth, but which can be readily applied to or removed from the crown during the process of fitting the latter to the root.

The invention consists in a crown provided with a socket having an undercut portion and a post provided at one end with a lug to engage the undercut and a resilient member for detachably holding the lug in the undercut portion.

In the accompanying drawings, which illustrate the invention, Figure 1 represents an enlarged detail side elevation of my improved post. Fig. 2 is a vertical sectional view of a crown provided with the post. Fig. 3 is a vertical section of a modified form of crown provided with the post. Fig. 4 is a vertical section of same, taken on line IV IV of Fig. 3.

In carrying out the invention I employ a crown 1, having a centrally-located socket 2 and an undercut portion 3 communicating with the inner end of the socket.

4 designates a post reduced at one end so that it may be readily introduced into the canal of the root and provided at its opposite end with a rectangular lug 5, adapted to snugly fit the undercut portion 3, in which latter it is reliably held by a resilient member 6, formed integral with or otherwise suitably secured to the post. Member 6 extends from a point about midway between the opposite terminals of the post to within a short distance of the lug end of the latter and tapers toward its free end to leave a space 7, slightly wider at its open end than shoulder 8 of the lug, so that when the resilient member is compressed against the back of the post the latter may be readily inserted or withdrawn from the socket in the crown. By thus detachably securing the post to the crown it is obvious that the latter can be more readily and accurately fitted to the exposed extremity of the root.

After the crown has been properly fitted to the root the post is placed in position in the former, where it is permanently secured by cement applied in the well-known manner and which after filling space 7 solidifies and prevents compression of member 6, so that lug 5 cannot be removed from undercut 3. Cement is then applied to the exposed portion of the post and the latter is inserted in the canal of the root.

In the modified form shown in Figs. 3 and 4 the undercut portion is provided with a transverse pin 9, which is semicircular at its upper portion, so that when the tapering lower end 10 of the post is pushed downwardly against said curved portion the post will move backwardly toward member 6 until lug 5 clears the edge of the pin, when it may be pushed downwardly until shoulder 8 engages the under side of the pin, as shown in Fig. 3.

From the above description it is apparent that I have produced a crown and a post composed of few parts, but well adapted for the purpose intended.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A post comprising a rigid member, a lug at one end of said rigid member, and a tapering resilient member formed integral with the intermediate portion of the rigid member and terminating at its reduced end in the rear of the lug; a crown provided with a socket, and means communicating with the socket adapted to engage the lug which latter is forced into engagement with said means by the resilient member.

2. A post comprising a rigid member ta-

pering toward one end, a rectangular lug at the opposite end of the rigid member, and a tapering resilient member formed integral with the intermediate portion of the rigid member and terminating at its reduced end in the rear of the lug end of the rigid member; and a crown provided with a socket having an undercut portion communicating with one side of said socket to receive the lug on the rigid member of the post.

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

JOHN R. HALDEMAN.

Witnesses:
F. G. FISCHER,
LESLIE E. BAIRD.