

W. F. SHAW.
DENTAL CROWN ATTACHMENT.
APPLICATION FILED DEC. 1, 1916.

1,228,488.

Patented June 5, 1917.

Fig. 1.

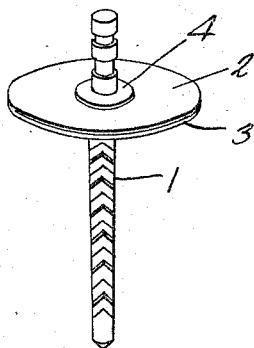


Fig. 2.

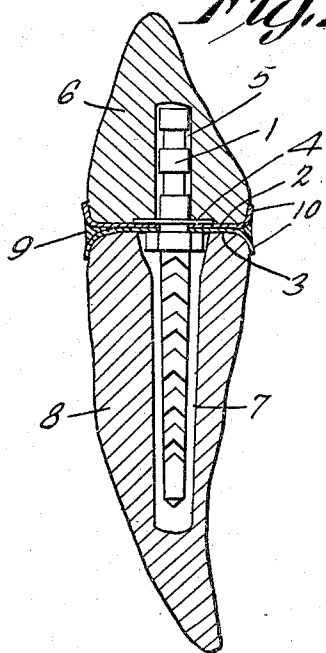
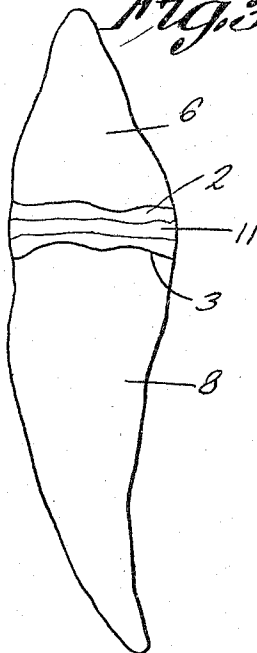


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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DENTAL-CROWN ATTACHMENT.

1,228,488.

Specification of Letters Patent.

Patented June 5, 1917.

Application filed December 1, 1916. Serial No. 134,375.

To all whom it may concern:

Be it known that I, WILLIAM F. SHAW, a citizen of the United States, residing at Pueblo, in the county of Pueblo and State of Colorado, have invented a new and useful Dental-Crown Attachment, of which the following is a specification.

The present invention appertains to attachments and methods of attaching artificial crowns to the roots of natural teeth, and aims to provide a novel and improved invention of that nature, designed for making a more perfect joint between the artificial porcelain or similar crown and the root of the natural tooth.

It is the object of the invention to provide novel and improved means and method for the purpose indicated, to produce a perfect joint and union between the crown and root, preventing leakage of moisture and consequent decay of the tooth, providing a stronger tooth, and one which is sanitary and durable.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein:—

Figure 1 is a perspective view of the attachment.

Fig. 2 is a sectional view of a crown and root illustrating the device in place with the disks or plates illustrated in section.

Fig. 3 is an elevation of the completed tooth.

The present invention is preferably used in connection with a pin or post 1 used for attaching a porcelain or similar crown to a root, and in carrying out the invention, there is provided a pair of disks or plates 2 and 3 of gold or other suitable malleable material, which have their central portions secured together in any suitable manner, as at 4, and mounted upon the pin or post 1. The marginal portions of the disks or layers 2 and 3 are detached, and only the central portions of said disks are secured together.

One terminal of the pin or post 1 is adapted

to be received by a bore or recess 5 with which the artificial crown 6 is provided, and the other terminal of the pin is receivable by a bore or recess 7 with which the natural root 8 is provided.

The method of attaching the crown to the root is carried out as follows:—The two disks or sheets of metal are spread apart and the intervening space is filled with soft wax or similar substance 9. One end of the pin is then inserted in the bore 7 prepared in the root 8, and the crown is then placed over the upper end of the pin. The crown is then pressed into position, and the surplus wax is thus squeezed out. The sheet or disk 2 has therefore been made to conform perfectly to the crown 6, and the disk or layer 3 to the root. The protruding edges of the disks or layers are then burnished with a suitable instrument against the edges and sides of the crown and root, as indicated at 10 in Fig. 2. The crown and attachment are then removed, and the wax between the two disks or layers is removed by heating it or otherwise. The wax is thus removed without disturbing the relative position of the two disks, and the intervening space is then filled with solder, which unites the disks or layers by the flow of solder therebetween, and without disturbing the disks or layers. The attachment is then finished by the grinding away of any surplus material around the margin, polishing and making ready to cement the attachment in position. The pin 1 is cemented within the root 8 and the disk or layer 3 cemented to said root, and the crown 6 is cemented upon the pin 1 and disk or layer 2, thereby rigidly uniting the crown with the root. Fig. 3 illustrates the solder 11 between the disks or layers 2 and 3, with the surplus material ground away.

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

1. The method of attaching an artificial crown to a natural root, consisting in pressing between the crown and root two attached malleable layers spread apart with the intervening space filled with soft wax or equivalent material, to cause the layers to conform to the adjacent portions of the crown and root, removing the wax, filling the intervening space between the layers with solder, and cementing the layers to the crown and root.

2. The method of attaching an artificial crown to a natural root, consisting in pressing between the crown and root two centrally attached malleable layers spread
5 apart with the intervening space filled with soft wax or equivalent material, to cause the layers to conform to the adjacent portions of the crown and root, burnishing the marginal portions of the layers to the
10 crown and root, removing the wax, filling the intervening space between the layers with solder, grinding away the surplus material, and cementing the layers to the crown and root.
- 15 3. A dental crown attachment embodying two attached malleable layers adapted to

be spread to conform to the adjacent portions of an artificial crown and natural root.

4. A dental crown attachment embodying in combination with a pin, two malleable
20 layers having their central portions attached and mounted upon said pin, the marginal portions of said layers being separable to conform to the adjacent portions of an artificial crown and natural root. 25

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAM F. SHAW.

Witnesses:

WILLIAM J. BAKER,
EMMA F. SHELL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."