

R. B. POWER.
 BACKING FOR ARTIFICIAL TEETH.
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1,004,302.

Patented Sept. 26, 1911.

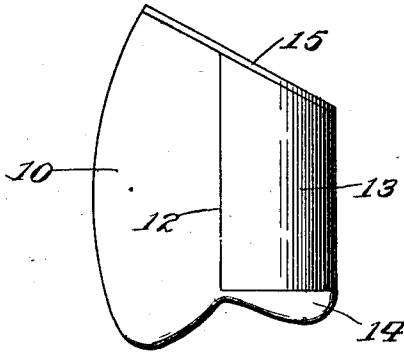


Fig. 1.

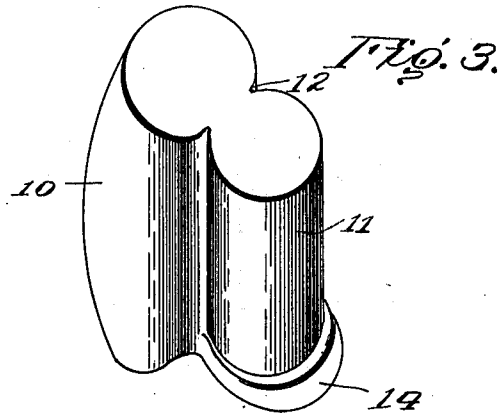


Fig. 3.

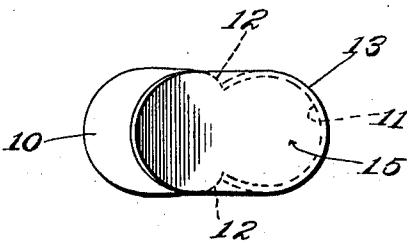


Fig. 2.

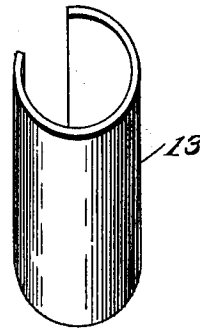


Fig. 4.

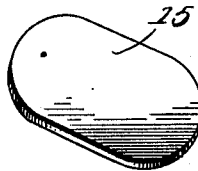


Fig. 5.

Witnesses
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UNITED STATES PATENT OFFICE.

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BACKING FOR ARTIFICIAL TEETH.

1,004,302.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ROSCOE B. POWER, citizen of the United States, residing at Green Bay, in the county of Brown and State of Wisconsin, have invented certain new and useful Improvements in Backings for Artificial Teeth, of which the following is a specification.

This invention relates to improvements in the construction of artificial teeth, and the "backing" of the same, and has for one of its objects to provide a tooth having a backing which is practically invisible and which may be applied to crown or bridge work with equal facility as may be preferred and without material structural change in the "backing."

Another object of the invention is to provide a device of this character which may be manufactured and sold substantially in condition to be at once applied, and which will require a relatively small amount of fitting or manipulation to apply to the improved teeth of different sizes and forms.

Another object of the invention is to provide a device of this character which may be readily applied without structural changes to the improved teeth of various forms and sizes and from which the artificial teeth may be readily removed when required without detaching any of the other parts.

With these and other objects in view the invention consists in certain novel features of construction as hereinafter shown and described and then specifically pointed out in the claims.

As before stated the improved device may be applied to various forms and sizes of the improved teeth and to teeth either for the upper or lower jaw, but for the purpose of illustration is shown applied to a conventional tooth of the upper jaw, and in the drawings thus employed, to illustrate the preferred embodiment of the invention, Figure 1 is a side elevation of the improved tooth; Fig. 2 is a plan view of the same; Fig. 3 is a perspective view of the tooth portion of the improved device, viewed from the rear or lingual side, showing the change in structure necessary to enable the improved backing device to be applied thereto; Fig. 4 is a perspective view, from the lingual

side, of the main band portion of the improved attachment; Fig. 5 is a perspective view of the cap member, 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.

In applying the improved packing device the tooth to which it is to be applied, and which is represented conventionally at 10, is formed with its posterior side rounded or cylindrical in outline, as shown at 11, and of less diameter than the body of the tooth so that vertical shoulders 12 are formed at the juncture of the cylindrical portion of the body of the tooth. As shown in Fig. 3 the rounded portion 11 is greater than one half of a circle or somewhat "dovetail" in shape, as shown. The backing portion of the improved device comprises a band 13 of resilient metal divided along one side and conforming to and closely engaging the cylindrical portion 11 of the tooth, the vertical edges of the band bearing in the shoulders 12 and closely engaging against the material of the tooth, and cemented or otherwise secured in position. At its occlusal end the tooth is formed to closely resemble the natural tooth, while at its gingival end it is inclined in the usual manner. At the occlusal end the tooth is of the same size as the natural tooth and necessarily produces a flange like structure 14 at the posterior side, and this enlargement 14 is utilized to form a support for the lower end of the band 13, as shown in Fig. 1. The upper end of the band 13 is inclined to correspond to the inclined gingival end of the tooth, as shown. Bearing upon the tooth and conforming in outline thereto is a cap in the form of a metal plate 15 and secured by soldering to the adjacent end of the band 13.

The band 13 will be manufactured in different sizes and of varying lengths to correspond to the different sizes of the improved tooth to which it is to be applied and of slightly greater length than will be required when finished, and will be furnished to the trade in this condition together with the requisite number of the cap members 15. The dentist will then fit the bands to the teeth and dress the gingival ends to correspond to the same and apply the cap by

soldering, as before noted. The tooth thus constructed is then ready to be applied either to bridge or crown work in the ordinary manner.

5 The improved tooth and band are simple in construction, and can be inexpensively manufactured and applied.

Having thus described my invention, what I claim as new is:—

10 1. An artificial tooth having a reduced and rounded posterior side, the reduced and rounded portion being greater than a half circle and of less length than the tooth, whereby a lateral shoulder is produced at
15 the juncture of the rounded portion with the body of the tooth, a backing comprising a band of resilient material and divided at one side and adapted to frictionally engage the rounded and reduced portion of the tooth
20 and corresponding at one end to the gingival end of the same, and a cap conforming to

the gingival end of the tooth and secured to the said band.

2. In a denture, a tooth reduced in width and rounded for a portion of its length at 25 the posterior side and forming vertical bearing shoulders between the anterior and posterior sides and a lateral bearing shoulder at the occlusal end, said rounded and reduced portion being greater than a half circle, a 30 band of resilient material divided at one side and frictionally engaging the reduced portion and engaging against the shoulders, and a cap conforming to the gingival end of the tooth and connected to the band. 35

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

ROSCOE B. POWER. [L. S.]

Witnesses:

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