

[54] **DENTAL TOOL**

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[58] Field of Search. 32/41, 40, 1, 15, 32/12

[56] **References Cited**

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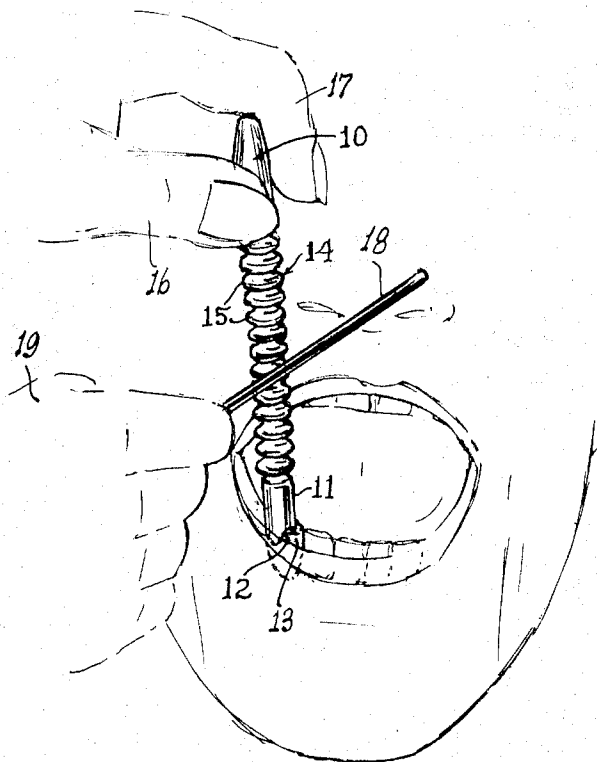
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[57] **ABSTRACT**

A crown-setting tool having one end notched or concave to conform generally to the configuration of a crown which is being cemented on a tooth, to firmly hold the crown while a vibratory rod is rubbed across the face of corrugations provided in the tool, with the resulting vibrations created through the rubbing action effective to set the crown and force out excess cement without undue distress to the patient or adverse effects upon the crown or the tooth.

6 Claims, 4 Drawing Figures



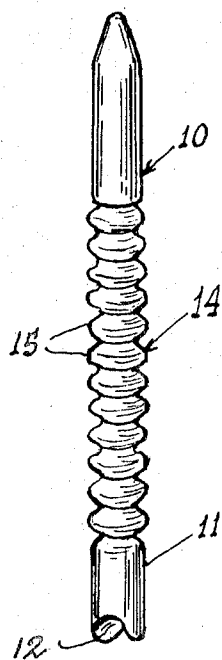


Fig. 1.

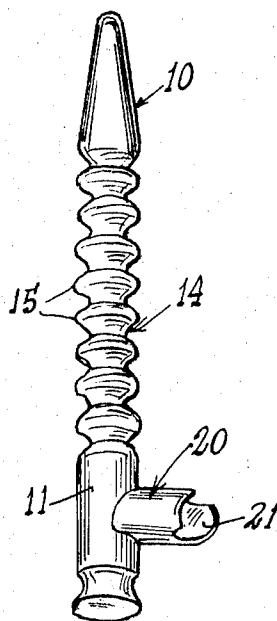


Fig. 2.

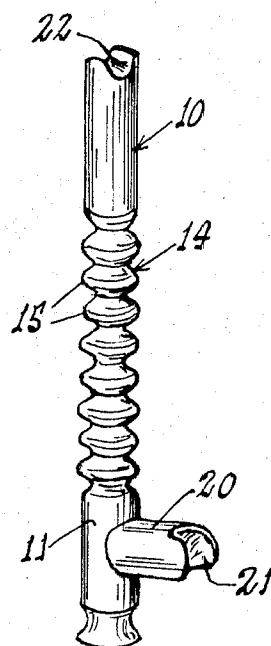


Fig. 3.

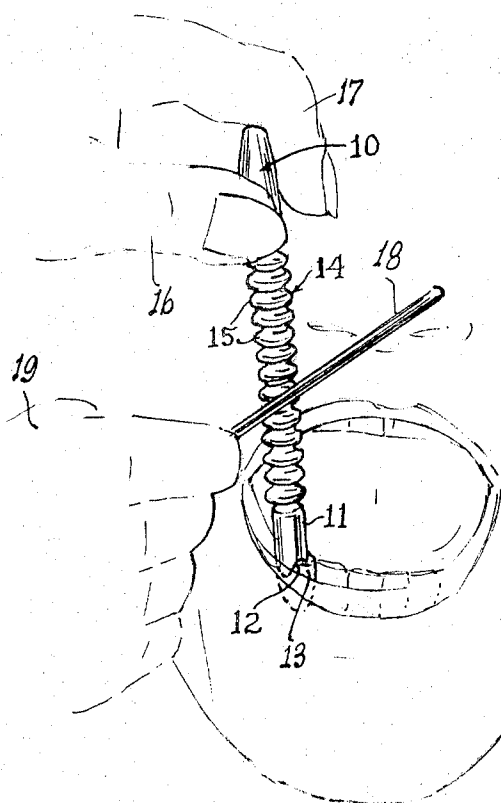


Fig. 4.

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DENTAL TOOL

SUMMARY OF THE INVENTION

The purpose of this invention is to provide an instrument adapted to be used by a dentist and by which the dentist may apply vibratory pressure to a crown being positioned upon a tooth, with minimum discomfort to the patient. By the use of my invention, the common practice of using a hammer for effecting setting of a crown is eliminated, thus avoiding the discomfort ordinarily created by such practice.

The crown-setting tool embodying my invention is of relatively simple construction and of a form which can be conveniently handled when in use, and is highly effective for the intended purpose.

Our invention is illustrated in the accompanying drawings, wherein:

FIG. 1 is a perspective view of one form of the invention;

FIG. 2 is a perspective view of another form of the invention;

FIG. 3 is a perspective view of a further form of the invention;

FIG. 4 is a perspective view showing the tool illustrated in FIG. 1 in use.

Referring to FIG. 1, the form there illustrated is especially designed for use in the anterior area of the inferior or superior maxilla. As there shown, our dental tool comprises a body forming an elongated shank 10. The lower portion 11 of the shank is provided with a concavity or notch as at 12 to conform to the shape of the top of a crown 13. The intermediate portion 14 of the shank 10 is corrugated circumferentially to provide a plurality of spaced apart and aligned striking ridges 15.

In use the shank 10 is held between the thumb and index fingers 16 and 17, with the top of the tooth to which a crown 13 has been freshly cemented, embraced by the concave portion 12. A vibratory action is then transmitted to the crown by rubbing a rod 18 held in the hand 19, over the ridges 15 provided by the corrugated portion 14 of the shank 10. This operation is continued until the crown has been properly set and the excess cement forced out from beneath the crown. This not only results in a perfect set of the crown, but also in a firm and secure application, accomplished without discomfort to the patient.

The form of the invention illustrated in FIG. 2 is sub-

stantially the same as that illustrated in FIG. 1, except that there has been affixed to the shank 10 a lateral projection 20 which is provided with a crown-receiving recess 21. This form of the invention is especially useful in setting crowns in the posterior area of the mouth.

The form illustrated in FIG. 3 is substantially similar to that shown in FIG. 2, with the exception that I have added to the upper end of the shank 10 a crown-receiving recess 22 identical to that illustrated at 12 in FIG. 1, for use in the anterior area of the mouth.

The tools illustrated in the drawings and described herein will be especially useful in properly setting and effectively cementing a crown to a tooth with a minimum discomfort to the patient.

While we have illustrated and described the preferred form of construction for carrying our invention into effect, this is capable of variation and modification without departing from the spirit of the invention. We, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail ourselves of such variations and modifications as come within the scope of the appended claims.

Having thus described our invention, what we claim as new and desire to protect by Letters Patent is:

1. A dental tool of the class described comprising
 - a. an elongated shank provided with a concavity conforming substantially to a crown being cemented to a tooth,
 - b. said shank being corrugated circumferentially,
 - c. and an elongated rod adapted to be rubbed longitudinally over said corrugations to set up vibrations in the shank transmitted to the crown.
2. A dental tool as defined in claim 1 wherein said concavity is formed in a projection extending laterally from one end of said shank.
3. A dental tool as defined in claim 2 wherein said shank at the opposite end thereof is provided with a crown-receiving concavity.
4. A dental tool as defined in claim 1 wherein said corrugations are evenly spaced between the opposite ends of the shank.
5. A dental tool as defined in claim 2 wherein said corrugations are evenly spaced between the opposite ends of the shank.
6. A dental tool as defined in claim 3 wherein said corrugations are evenly spaced between the opposite ends of the shank.

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