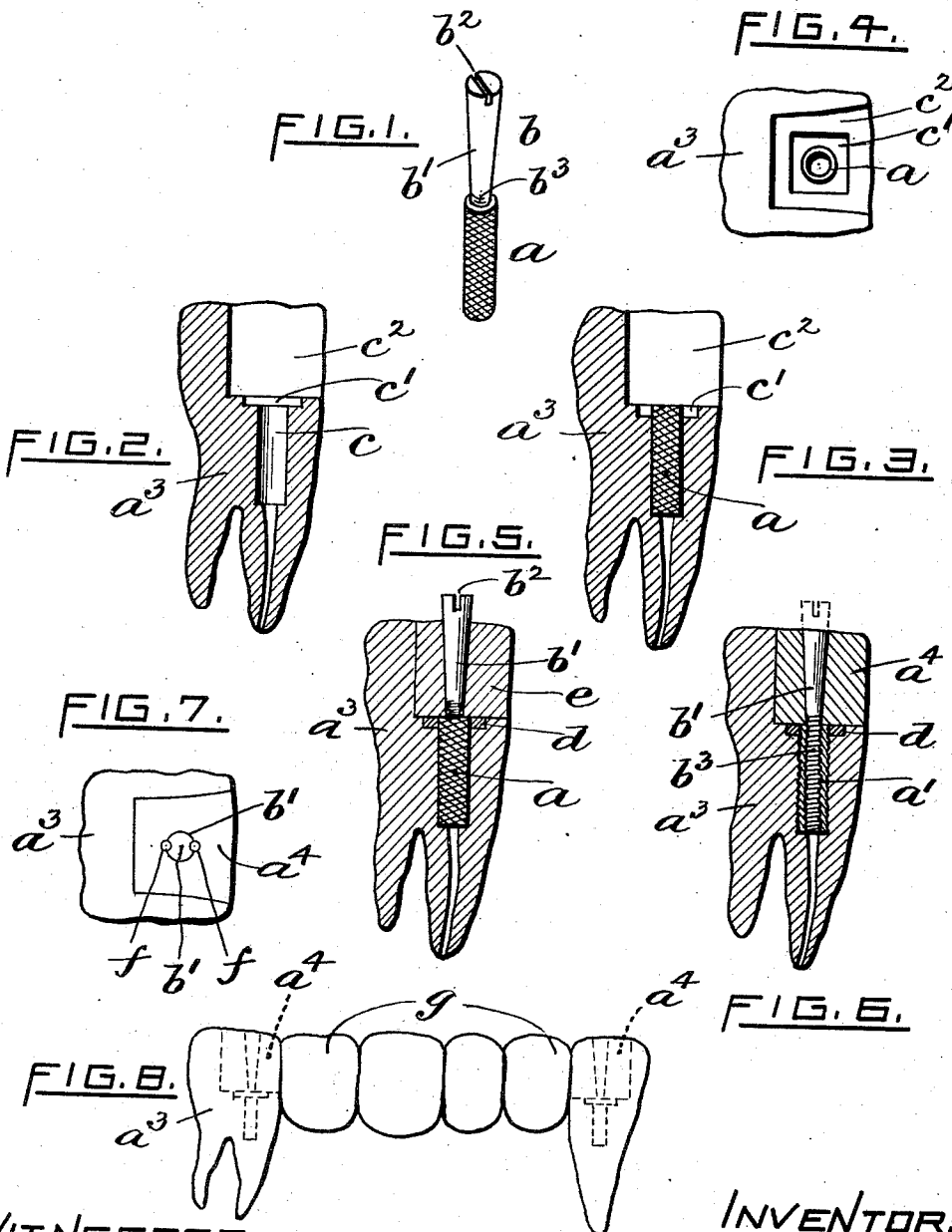


A. F. ANDERBERG.
ANCHORING DEVICE FOR TEETH FILLINGS.
APPLICATION FILED JUNE 10, 1911.

1,018,803.

Patented Feb. 27, 1912.



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UNITED STATES PATENT OFFICE.

AXEL F. ANDERBERG, OF PAWTUCKET, RHODE ISLAND.

ANCHORING DEVICE FOR TEETH-FILLINGS.

1,018,803.

Specification of Letters Patent.

Patented Feb. 27, 1912.

Application filed June 10, 1911. Serial No. 632,421.

To all whom it may concern:

Be it known that I, AXEL F. ANDERBERG, a citizen of the United States, residing at the city of Pawtucket, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Anchoring Devices for Teeth-Fillings, of which the following is a specification.

This invention relates to dentistry, and more particularly to means for securing a filling in a cavity of the tooth and has for its object to provide a filling anchoring device in a manner as hereinafter set forth for securely maintaining the filling in position which is simple in its construction and arrangement, strong, durable, efficient in its use, conveniently applied and inexpensive to manufacture.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts as hereinafter more specifically described and illustrated in the accompanying drawings, wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which come within the scope of the claims hereunto appended.

In describing the invention in detail reference is had to the accompanying drawings wherein like reference characters denote corresponding parts throughout the several views and in which:—

Figure 1 is an elevation of an anchoring device in accordance with this invention. Fig. 2 is a sectional view of a tooth bored and trimmed for the reception of the filling and anchoring device. Fig. 3 is a view similar to Fig. 2 and further showing positioned in the tooth the inner member of the anchoring device. Fig. 4 is a top plan of Fig. 3, Fig. 5 is a sectional view of the trimmed and bored tooth showing the anchoring device positioned therein and with the cavity of the tooth provided with a wax filling to form the impression for the gold filling, Fig. 6 is a sectional view of a tooth having a gold filling secured in position by an anchoring device in accordance with this invention, Fig. 7 is a top plan view of Fig. 6 illustrating the means to prevent the unscrewing of the outer member of the anchoring device, and Fig. 8 illustrates the manner of anchoring gold fillings in accordance with this invention which may be used to ad-

vantage to hold bridge work firmly between them.

An anchoring device for a tooth filling in accordance with this invention includes an inner tubular member —*a*— bored from end to end and with the wall of the bore provided with screw threads as at —*a'*—. The periphery of the member —*a*— is indented or knurled. The inner member —*a*— is positioned in a tubular opening —*c*— which is bored in the tooth —*a*³— and terminates at its upper end in a squared recess —*c'*— which is arranged in the base of cavity —*c*²— to receive a gold filling —*d*—. The inner member —*a*— is secured in position by suitable cement and is prevented from turning in the opening —*c*— by the gold filling —*d*— which is positioned in the recess —*c'*— and is secured to the member —*a*— by a flux or any other suitable manner. As the filling —*d*— is square and is secured to the member —*a*— it is obvious that the latter cannot turn in the opening —*c*— as the filling —*d*— will prevent the same.

The anchoring device further includes an outer member referred to generally by the reference character —*b*— and which consists of a tapering shank —*b'*— and a threaded extension —*b*³— which is adapted to engage with the threads —*a'*— of the member —*a*— whereby the two members will be coupled together. The outer end of the shank —*b'*— is formed with a transversely extending slit —*b*²— for the reception of a suitable tool for connecting and disconnecting the member —*b*— to and from the member —*a*—.

In connection with the use of the anchoring device it will be stated that the inner member —*a*— is first positioned in the opening —*c*— as shown in Fig. 3, after which the outer member is connected to the member —*a*—, but the shank of said outer member is provided with any suitable coating such as vaseline so as to prevent the adhering thereto of wax —*e*— which is placed in the cavity —*c*²— to form the impression for a second gold filling *a*⁴. When the impression has been formed the outer member —*b*— is then disconnected from the member —*a*— and the body of the wax then used to make the matrix for the gold filling *a*⁴, and after the latter is molded a central tapering opening is formed to receive the shank *b'* of the outer member *b*. The filling *a*⁴ is then mounted in the cavity —*c*²—, the outer member —*b*— connected to the inner member

—*a*— and that portion of the outer member
 —*b*— which projects from the filling removed so that the outer end of the member
 —*b*— will be flushed with the top of the
 5 filling —*a*⁴—, see Fig. 6. Pins —*f*, *f*— are
 then driven in the filling and into the shank
 —*b*⁴—, see Fig. 7, to prevent rotative movement of the member —*b*— with respect to
 the member —*a*—.

10 In Fig. 8 of the drawings is illustrated the
 gold fillings —*a*⁴— as holding firmly there-
 between the bridge work —*g*—, by means of
 solder, as at points *s*, *s*.

By use of my improved anchoring device,
 15 as described, I am enabled to firmly secure
 any inlay, bridge, crown, plate, or other ap-
 pliances used in dentistry.

What I claim is:—

1. An anchoring device for a tooth filling
 20 including an inner tubular member adapted
 to be secured in the body of the tooth below
 the cavity and provided with interior
 threads, and an outer member including a
 tapering shank and a threaded extension,

said extension engaging with the threads of 25
 said inner member and said tapering shank
 extending through and engaging with the
 filling for maintaining the latter in the
 cavity of the tooth.

2. An anchoring device for a tooth filling 30
 including an inner tubular member adapted
 to be secured in the body of the tooth below
 the cavity and provided with interior
 threads, an outer member including a taper- 35
 ing shank and a threaded extension, said ex-
 tension engaging with the threads of said
 inner member and said tapering shank ex-
 tending through and engaging with the fill-
 ing for maintaining the latter in the cavity 40
 of the tooth, and means mounted in a recess
 at the bottom of the tooth cavity to prevent
 rotative movement of said inner member.

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

AXEL F. ANDERBERG.

Witnesses:

PETER C. CANNON,
 JOHN WILSON.