

No. 692,582.

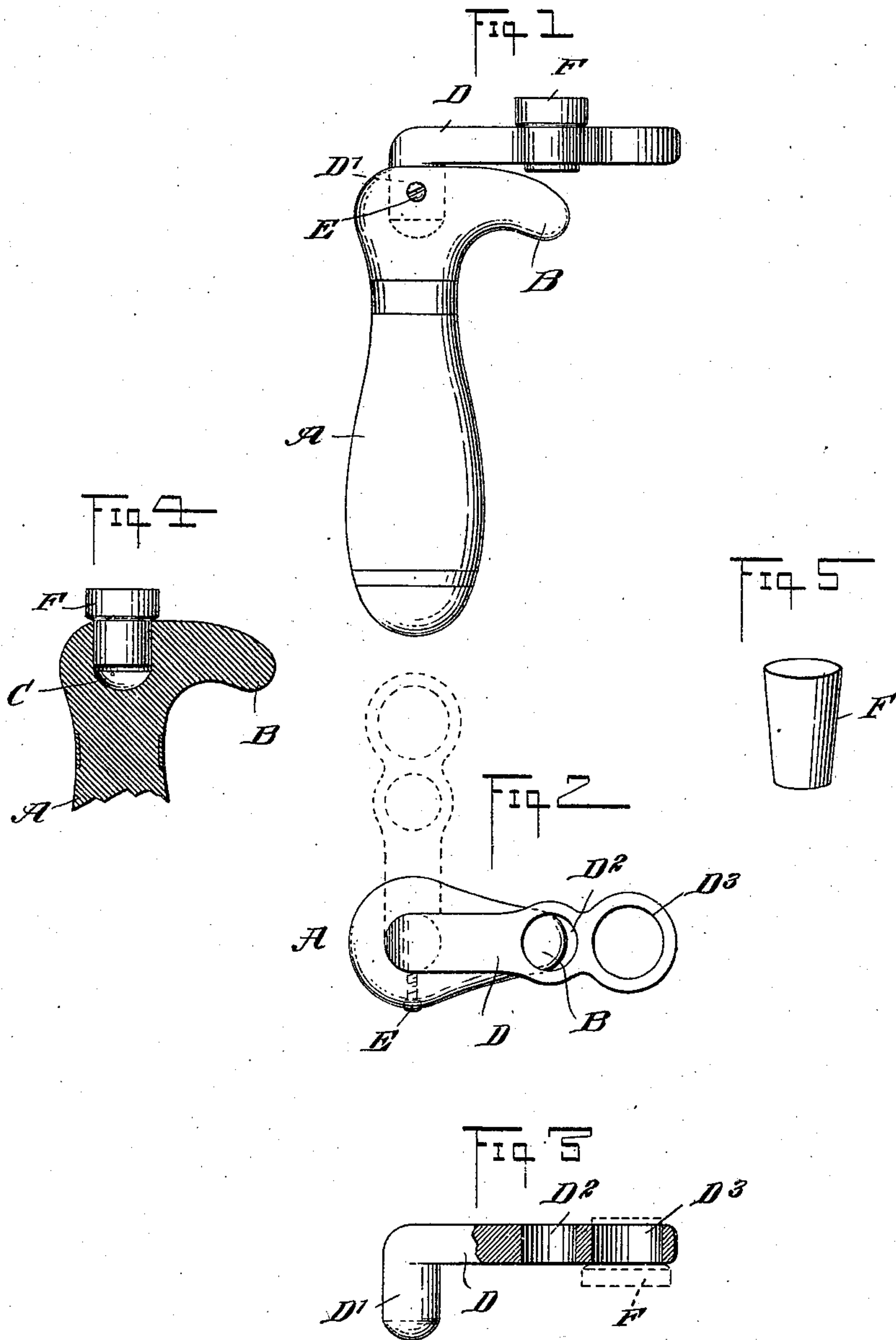
Patented Feb. 4, 1902.

N. T. YAGER.  
DENTAL INSTRUMENT.

(Application filed May 23, 1901.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:

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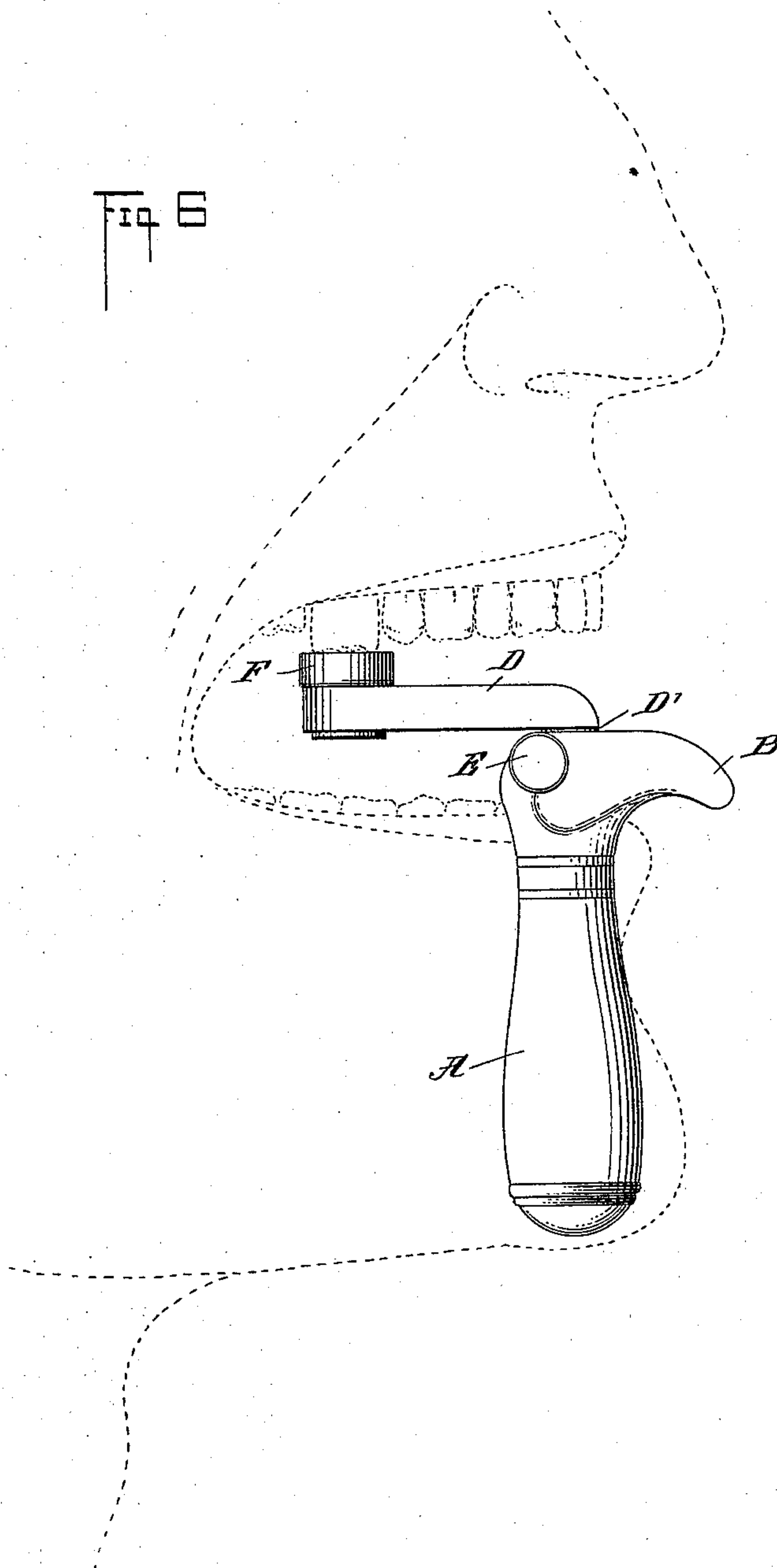
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Fig 6



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# UNITED STATES PATENT OFFICE.

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## DENTAL INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 692,582, dated February 4, 1902.

Application filed May 23, 1901. Serial No. 61,537. (No model.)

*To all whom it may concern:*

Be it known that I, NEWTON THOMAS YAGER, a citizen of the United States, and a resident of Louisville, in the county of Jefferson and State of Kentucky, have invented a new and Improved Dental Instrument, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved dental instrument, more especially designed to enable a dentist to conveniently, securely, and rapidly force bands, caps, or crowns into position on the teeth of the upper and lower jaws at either side and without injuring the band, cap, or crown during the application.

The invention consists of novel features and parts and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the improvement. Fig. 2 is a plan view of the same. Fig. 3 is a side elevation of the plug-carrier, part being in section. Fig. 4 is a sectional side elevation of the handle with a plug directly inserted in the socket of the handle. Fig. 5 is a perspective view of one form of the plug, Figs. 1, 3, and 4 illustrating another form of plug; and Fig. 6 is a view of the instrument as in use.

The improved dental instrument consists, essentially, of a handle A, formed at its outer end with a finger-piece B and with a central socket C, adapted to receive the angular shank D' of a plug-carrier D, arranged to stand approximately at an angle to the axis of the handle A, the plug-carrier being adapted to be fastened in any desired position by a set-screw E, screwing in the handle and engaging the angular shank D'. The plug-carrier D is formed with one, two, or more apertures D<sup>2</sup> D<sup>3</sup> of different diameters to receive different-sized plugs F, arranged to receive and support the bands, caps, or crowns to be forced on teeth in either the upper or lower jaw. The plugs, as shown in Figs. 1 and 4, are formed with shoulders adapted to be

seated on the carrier D, so that the outer portion of a plug extends beyond the face of the carrier D to receive the band, cap, or crown, the plug F being in either the position shown in Fig. 1 or in the position indicated in dotted lines in Fig. 3. When a plug F is inserted in the carrier D, as shown in Fig. 1, then the instrument is used for applying a band, cap, or crown upon the teeth of the upper jaw, and when it is desired to force the band, cap, or crown upon the teeth of the lower jaw then the plugs are inserted from underneath the carrier D, as indicated in dotted lines in Fig. 3. By loosening the set-screw E the operator can conveniently swing the carrier D into any normal position relatively to the finger-piece B, so as to reach any desired tooth on either side of the upper or lower jaw.

The plugs F are preferably of soft wood; but other suitable material may be employed, and the plugs are so shaped that with a little pressure they are securely seated in the carrier D so as not to drop out, especially when inserted from underneath, as indicated in Fig. 3. The plugs are shaped differently according to the shape of the bands, caps, or crowns carried by the plugs and used on different kinds of teeth. For certain teeth the carrier D may be dispensed with, and a plug F may then be directly inserted in the socket C, as illustrated in Fig. 4.

Fig. 6 represents the instrument as used in forcing a band, cap, or crown on an upper molar. The proper plug, with the band, cap, or crown, being in place, the handle of the instrument is grasped and an upward pressure exerted, forcing the band, cap, or crown into position. The finger-piece on the handle of the instrument serves as a rest to the index-finger. The operation is substantially the same on bicuspid teeth, except that a different plug is employed. For setting a complete bridge two plugs are used in the carrier, and in operating on superior anterior teeth the plug-carrier is removed from the handle and the plug is inserted in the socket in the handle, as shown in Fig. 4.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. A dental instrument having a plug-car-



rier, and interchangeable plugs adapted to be seated on said carrier and arranged to receive the bands, caps or crowns to be forced on the teeth, as set forth.

5 2. A dental instrument, comprising a handle, a plug-carrier on said handle and extending at an angle thereto, and a plug seated on said carrier for receiving a band, cap or crown to be forced on a tooth, as set forth.

10 3. In a dental instrument, a handle, and a plug removably carried by the handle and adapted to receive the band cap or crown to be forced on a tooth, as set forth.

15 4. A dental instrument, comprising a handle having a socket at one end, and a plug-carrier having an angular shank for engaging said socket, said carrier having a plurality of apertures for receiving interchangeable plugs, as set forth.

20 5. A dental instrument having a handle provided with a socket at one end, a plug-carrier having an angular shank for engaging said socket, means for fastening the carrier in position, the carrier having a plurality of

apertures of different sizes, and plugs adapted 25 to be seated on said carrier at said apertures, as set forth.

6. A dental instrument, comprising a handle having a finger-piece and a socket at one end of the handle, a plug-carrier having an 30 angular shank adapted to engage the socket, and means for securing the shank and carrier in place after the same are adjusted to the desired normal position relatively to the finger-piece, as set forth.

35 7. In a dental instrument, a handle formed at its outer end with a finger-piece and having a central socket, the said handle being adapted to carry a plug to receive the band, cap or crown to be forced on a tooth, as set 40 forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

NEWTON THOMAS YAGER.

Witnesses:

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