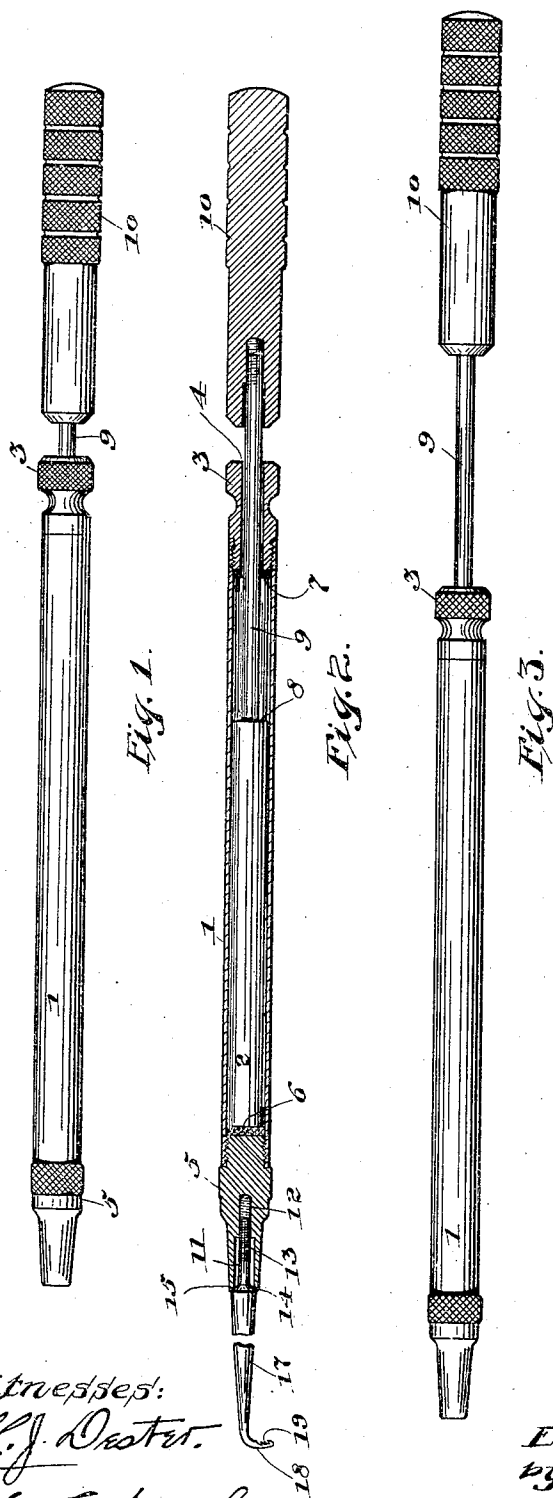


E. L. CHOTT.
DENTAL INSTRUMENT.
APPLICATION FILED APR. 9, 1909.

938,640.

Patented Nov. 2, 1909.



Witnesses:

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W. B. Smith

Inventor:

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UNITED STATES PATENT OFFICE.

EDWARD L. CHOTT, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO HUGO J. CHOTT,
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DENTAL INSTRUMENT.

38,640.

Specification of Letters Patent.

Patented Nov. 2, 1909.

Application filed April 9, 1909. Serial No. 488,798.

to all whom it may concern:

Be it known that I, EDWARD L. CHOTT, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Dental Instruments, of which the following is a specification.

My invention relates to improvements in dental instruments, and more particularly to a device designed for use in setting crowns and for removing crowns and bridge-work, the object of the invention being to provide an inexpensive device of this character which shall be convenient in use.

A further object of my invention is to provide means in the device for cushioning the shocks caused by the hammer of the device so that the same will not be transmitted to the teeth of the patient.

Other objects will appear hereinafter.

With these objects in view my invention consists in the novel construction and arrangement of parts as will be hereinafter fully described and particularly pointed out in the claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a side elevation of my improved dental instrument in its preferred form, Fig. 2 is a central longitudinal section thereof, and Fig. 3 is a side elevation showing a handle in the extended position.

Referring now to the drawings 1 designates a cylinder internally threaded at each end thereof, and 2 a plunger or hammer adapted to reciprocate therein. A knurled rod 3 provided with an axial perforation 4 is screwed into one end of the cylinder 1, and a knurled tool holding head 5 is screwed into the other end thereof. A disk 6 of rubber, or other yieldable material is placed at the inner end of the head 5 to receive the impact of the hammer 2 when setting crowns, and a perforated yieldable disk 7 is placed at the inner end of the head 3 to receive the impact of the shoulder 8 of the hammer 2 when a crown or bridge-work is being removed. The rod 9 is integral with the hammer 2 and is adapted to reciprocate in the perforation 4 provided in the head 3, the other end of said rod being threaded to receive the knurled handle 10 which is rigidly secured thereto. Thus the hammer 2 may

reciprocate in the cylinder between the disks 6 and 7 which limit the length of the hammer strokes.

The tool holding head 5 is tapered and is provided with an axial bore 11 in the smallest portion thereof, the threaded axial recess 12 being smaller diametrically than said bore and adapted to receive the threaded end 13 of any of the interchangeable tools provided in the device. Each tool is provided with a conical portion 14 adjacent the threaded end 13 thereof, which portion is adapted to fit snugly in a flaring portion 15 provided at the outer extremity of the head 5, whereby the tool is held firmly in position.

The tapering tool 17 is in axial alinement with the cylinder 1 and is provided with a hook 18 having a series of teeth 19, this tool being adapted to remove bridge-work.

Various slight changes might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not restrict myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the claims.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

1. In a dental instrument, a cylinder having internally threaded ends, a head screwed into one of said ends having an axial perforation and a knurled periphery, a cylindrical hammer adapted to reciprocate in said cylinder having a rod integral therewith adapted to reciprocate in said axial perforation, a knurled tool-holding head screwed into the other end of said cylinder, and a knurled operating handle secured to said rod, said hammer being adapted to contact with cushions provided at the inner ends of said heads, substantially as described.

2. In a dental instrument, a cylinder having heads secured therein at each end thereof, a cylindrical hammer adapted to reciprocate in said cylinder having a reduced portion or rod adapted to reciprocate in an axial perforation provided in one of said heads, a handle attached to said rod, a disk cushion seated at the inner end of one of said heads and a perforated disk cushion seated at the inner end of the other, said hammer being adapted to contact with said cushions, a threaded axial recess provided in one of said

heads, and a tool adapted to screw into said recess, substantially as described.

3. In a dental instrument, a cylinder having a tool-holding head screwed into one end thereof and a perforated head screwed into the other, a hammer adapted to reciprocate in said cylinder having a rod integral therewith adapted to reciprocate in said perforated head, an operating handle secured to said rod, means for cushioning the shocks caused by the impact of said hammer on said heads, a flaring portion, bore, and a threaded recess provided in said tool-holding head, and a removable tool screwed into said re-

cess having a toothed hook at the outer extremity thereof for removing bridge-work, said tool being provided with a conical portion formed thereon for engaging said flaring portion of said last named head, substantially as described. 15 20

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

EDWARD L. CHOTT.

Witnesses:

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W. H. GRIFFIN.