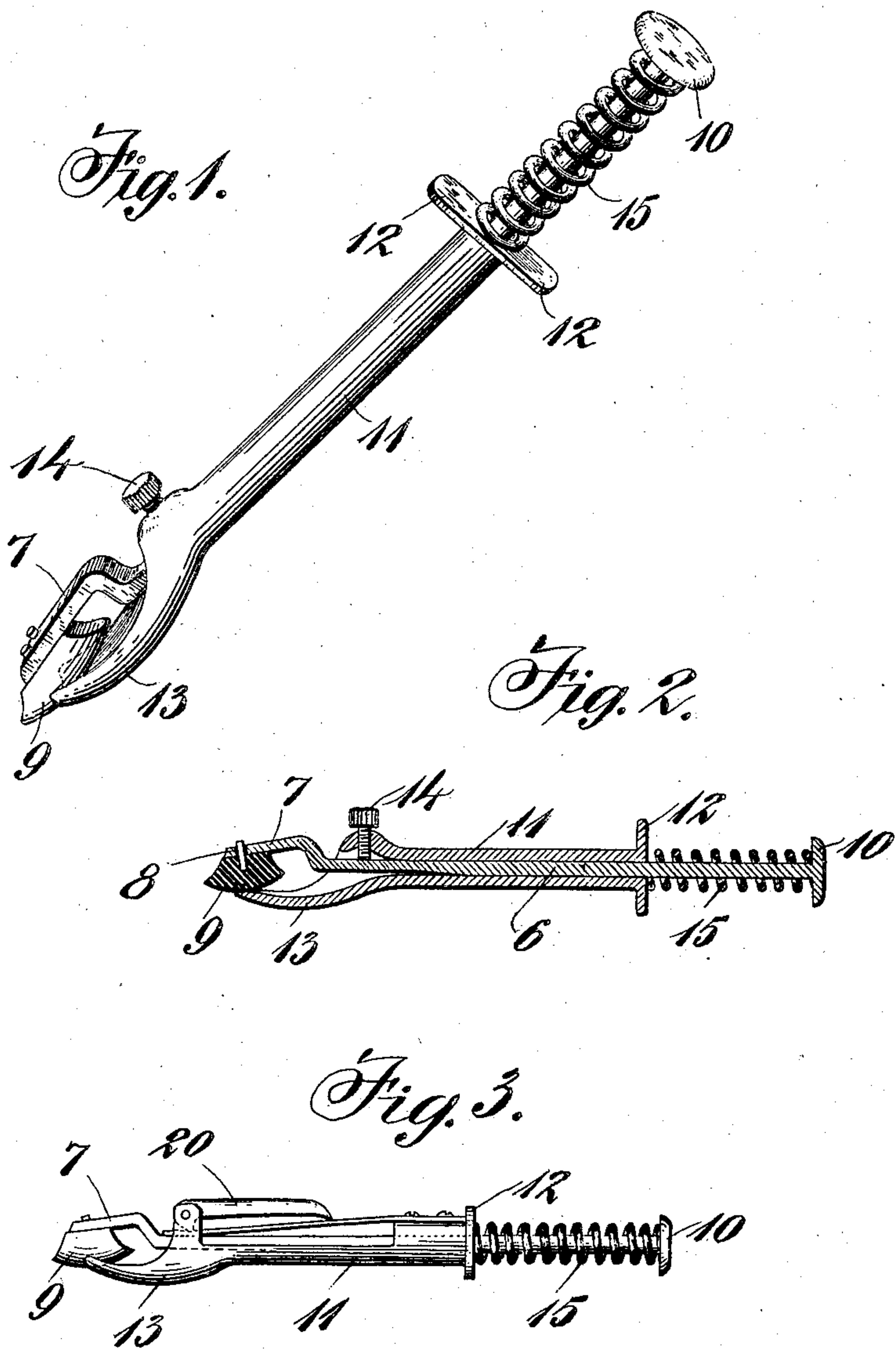


No. 891,543.

PATENTED JUNE 23, 1908.

E. Y. HAUGHAWOUT.
DENTAL TOOL,
APPLICATION FILED FEB. 28, 1908.



Elmore Y. Haughawout.
Inventor

Witnesses

W. A. Simons
Geo. E. Tew

By *Mrs. B. Stevens*
Attorney

UNITED STATES PATENT OFFICE.

ELMORE YOCOME HAUGHAWOUT, OF CEDAR RAPIDS, NEBRASKA.

DENTAL TOOL.

No. 891,543.

Specification of Letters Patent.

Patented June 23, 1908.

Application filed February 28, 1908. Serial No. 418,391.

To all whom it may concern:

Be it known that I, ELMORE YOCOME HAUGHAWOUT, a citizen of the United States, residing at Cedar Rapids, in the county of Boone and State of Nebraska, have invented certain new and useful Improvements in Dentists' Tools, of which the following is a specification.

This invention is a tool or instrument for the use of dentists, having the type of a hand vise or holder, and particularly adapted for holding porcelain facings or teeth while they are being prepared for crown or bridge work.

Every facing must be ground more or less, to suit the individual case, and after being ground the facings must be polished and then backed or burnished with metal.

The tool forming the subject of the invention is designed to securely hold the facing or the like while the several operations are being performed.

The invention is illustrated in the accompanying drawings, in which

Figure 1 is a perspective view of the tool with a facing held therein. Fig. 2 is a longitudinal section. Fig. 3 is a side view of a modification.

Referring specifically to the drawings, 6 indicates a rod which is flattened and offset at one end, as indicated at 7, to form a jaw, the flattened portion being provided with holes 8 adapted to receive the pins on the back of the facing 9. At its rear end the rod has a button 10.

The rod above described works loosely through a tube 11, of less length than said rod, and this tube is provided at its rear end with finger pieces 12 for convenient manipulation of the parts. At its front end the tube has a forwardly extending lip or jaw 13 which coöperates with the jaw 7, being oppositely disposed with respect thereto when the parts are in holding position. The tube also has near its front end a set screw 14 which when screwed in bears against the back of the rod 6 and presses the jaw 7 toward the jaw 13. A spring 15 is coiled around the rod between the finger pieces 10 and 12.

The rod 6 is capable of longitudinal movement within the tube 11, whereby it is accommodated to various shapes and sizes of facings, and also enables a facing to be readily inserted between the jaws. To grasp a facing in the holder the set screw 14 is loosened

and the button 10 is pressed to advance the jaw 7 beyond the end of the jaw 13. The facing can be then placed on the jaw 7, with the pins extending through the holes 8. The pressure is then released, allowing the spring 15 to retract the rod and bring the jaws 7 and 13 opposite, with the facing between. The set screw 14 is then turned enough to press the jaw 7 toward the jaw 13, sufficient pressure being applied to grasp the facing firmly and hold the same in proper position. When so held, the facing can be ground, polished or otherwise worked. The longitudinal movement of the jaws with respect to each other, as well as their movement laterally toward and from each other, allows facings or teeth of irregular size and shape to be grasped and firmly held.

Instead of the set screw 14, other means may be used to clamp the jaws. Thus, in Fig. 3 I show a cam lever 20 which is pivotally mounted upon the tube and arranged to bear upon the movable jaw or rod, to press the jaws together. This has the advantage that it is quick acting and may be manipulated by the hand holding the tool.

I claim:

1. A tool comprising a tube having a projecting jaw at one end, a rod extending through the tube and movable lengthwise without rotation therein and having a jaw which coöperates with said jaw, a spring between the tube and rod, tending to retract the latter, and means to press the jaws toward each other.

2. A tool comprising a tube having a jaw at the front end, a rod slidable lengthwise without rotation in the tube and having a jaw at the front end provided with holes to receive facing pins, and means to press the jaws toward each other.

3. A tool comprising a tube having a jaw at the front end and a finger piece at the rear end, a rod extending through the tube and having a jaw at the front end, a spring coiled around the rod and tending to retract the same, and a set screw in the front end of the tube, bearing against the rod to press the jaws together.

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

ELMORE YOCOME HAUGHAWOUT.

Witnesses:

E. L. SARGENT,
A. D. SMITH.