

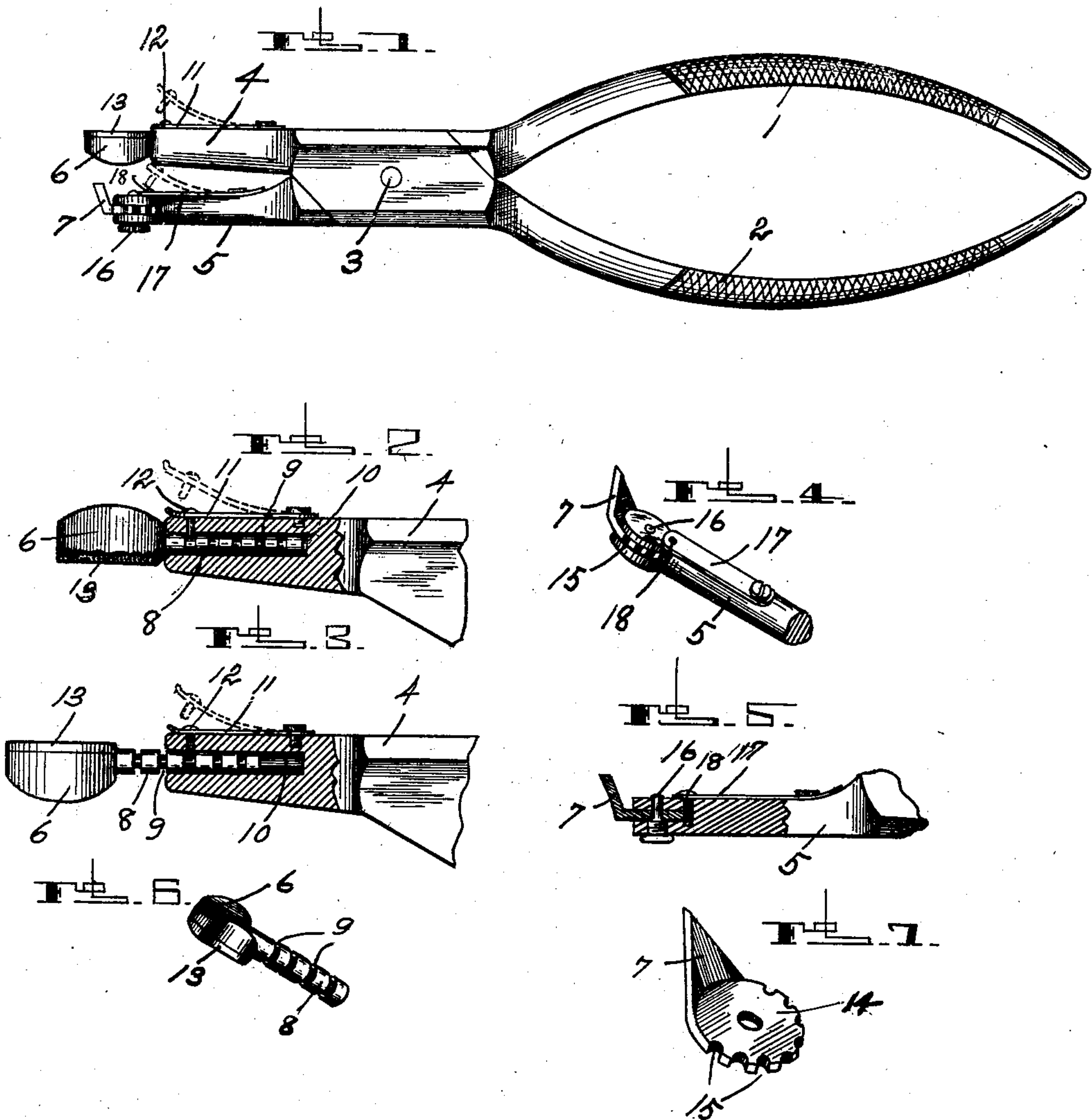
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Patented June 3, 1902.

C. J. REYNOLDS.  
DENTAL TOOL FOR SLITTING CAP CROWNS.

(Application filed Dec. 27, 1901.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

CLAYTON J. REYNOLDS, OF PITTSBURG, PENNSYLVANIA.

## DENTAL TOOL FOR SLITTING CAP-CROWNS.

SPECIFICATION forming part of Letters Patent No. 701,616, dated June 3, 1902.

Application filed December 27, 1901. Serial No. 87,406. (No model.)

*To all whom it may concern:*

Be it known that I, CLAYTON J. REYNOLDS, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Dental Tools for Slitting Cap-Crowns, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of my invention is to provide a new and improved dental tool particularly adapted for slitting gold cap-crowns in the operation of removing a crown from a tooth; and to this end my invention consists of a new and improved crown-slitting tool and in the construction and combination of parts, all as fully hereinafter described and claimed.

In the accompanying drawings, which illustrate an application of my invention, Figure 1 is an elevational view of a gold-crown-slitting tool constructed in accordance with my invention. Fig. 2 is a detailed sectional view of a portion of one jaw; Fig. 3, a similar view showing the adjustable bearing-head in a different position from the position shown by Fig. 2; Fig. 4, a detailed perspective view particularly showing the slitting-blade; Fig. 5, a sectional view showing manner of attaching the blade to a jaw; Fig. 6, a perspective view of bearing-plate, and Fig. 7 a perspective view of blade.

Referring to the drawings, my invention, as illustrated, comprises a crown-slitting tool or forceps having the general appearance of an ordinary pair of dental forceps—that is to say, it is provided with the usual handle members 1 and 2, joined together by a pivot 3. Jaw portions 4 and 5, respectively, carry an adjustable bearing-head 6 and an adjustable cutting and slitting blade 7. Bearing-head 6 has a shank 8, having annular grooves 9. Shank 8 fits into a socket 10, located in the jaw portion 4 and may be adjusted therein to various positions, as clearly shown by Figs. 2 and 3. A flat spring-plate 11, secured to the jaw 4, is provided with a pin 12, which passes through a hole in the jaw and enters one or the other of the annular grooves 9. The head may be adjusted laterally by raising the spring-plate with its pin 12. It will be noted that the shank of the bearing-head is mounted in the jaw in such a manner as to freely turn therein, thereby permitting the head to assume different positions relatively to the jaw in which it is mounted. One face

of the head is preferably made concave, as shown, and another face has a soft-metal bearing-surface 13.

The manner of mounting the adjustable cutting or slitting blade 7 on the end of the jaw portion 5 is particularly shown by Figs. 4 and 5. Blade 7 has a disk-shaped portion 14, having a number of notches 15 cut in the perimeter thereof, and is mounted on pin 16, which latter is passed through holes in the slotted end of the jaw 5.

A spring-plate 17, similar to plate 11, having a pin 18, is employed for locking the blade in the desired position.

It is believed that the advantages resulting from the use of my tool over the tools heretofore designed to be used for accomplishing the same purpose will be readily appreciated. However, I desire to especially call attention to the adjustable bearing-head and the adjustable cutting or slitting blade and the manner of mounting them on the jaws.

What I claim is—

1. A dental tool for slitting cap-crowns, comprising a pair of forceps having an independently-adjustable bearing-head and an independently-adjustable cutting or slitting blade arranged to cooperate with the adjustable bearing-head, for slitting cap-crowns in the operation of removing cap-crowns from a tooth, substantially as set forth.

2. A dental tool for slitting cap-crowns, comprising a pair of forceps having jaw portions, one of which is provided with a socket and the other slotted, and an adjustable bearing-head having a shank located in said socket, an adjustable cutting or slitting blade mounted in the slotted portion of the other jaw, substantially as set forth.

3. A dental tool for slitting cap-crowns, comprising a pair of jaws, an adjustable bearing-head, an adjustable cutting or slitting blade, a socket in the end of one jaw for the bearing-head, means on the other jaw for supporting the blade, said bearing-head provided with a shank having annular grooves and a pin for engaging with said grooves, substantially as set forth.

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

CLAYTON J. REYNOLDS.

Witnesses:

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EDWIN L. ALLEN.