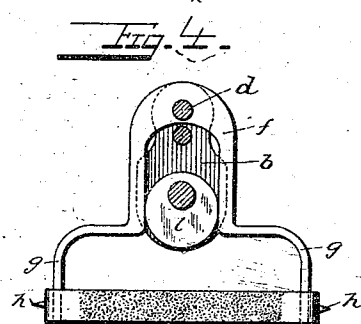
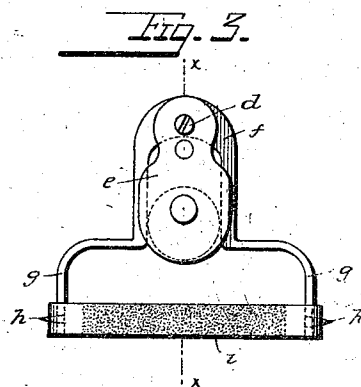
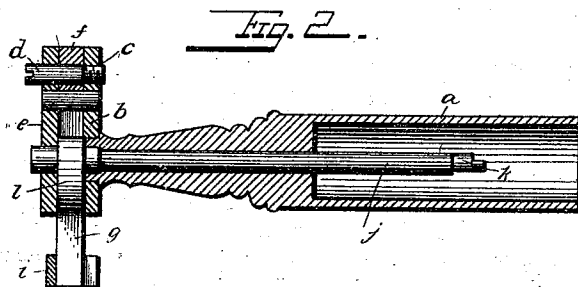
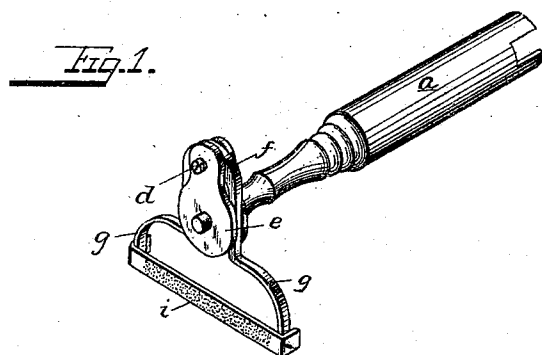


(No Model.)

H. C. WOFFORD.
DENTAL TOOL.

No. 501,127.

Patented July 11, 1893.



Attest.

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UNITED STATES PATENT OFFICE.

HENRY CARROL WOFFORD, OF GREENVILLE, SOUTH CAROLINA.

DENTAL TOOL.

SPECIFICATION forming part of Letters Patent No. 501,127, dated July 11, 1893.

Application filed October 27, 1892. Serial No. 450,148. (No model.)

To all whom it may concern:

Be it known that I, HENRY CARROL WOFFORD, a citizen of the United States, residing at Greenville, in the county of Greenville and State of South Carolina, have invented certain new and useful Improvements in Dental Instruments; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention has relation to dental instruments and consists in a right angle hand piece—a tape carrier—driven by a dental engine and is used for polishing filling in teeth.

In the accompanying drawings: Figure 1, is a perspective view of my invention. Fig. 2, is a longitudinal sectional view. Fig. 3, is an end view. Fig. 4, is an end view with the end plate removed.

My invention is described as follows:

a, is the sleeve to fit over the hand piece of a dental engine, *b* is a right angle piece rigidly secured to the front end of said sleeve having in its upper end a pivot hole *c*, for the pivot *d*, to work in.

e, is a front plate pivoted to the right angle plate *b*, by means of pivot *d*; between said plates *b*, and *e*, is pivoted a double armed lever *f*, having tape carrying arms *g*, and tape pins *h*. To the lower ends of said arms *g*, and secured on said pins *h*, is a tape *i*.

Extending through the plates *b*, and *e*, and between the arms of the U shaped lever *f*, and through the sleeve *a*, is a journal *j*, hav-

ing one end, *k*, constructed to fit in the hand piece of a dental engine and to be rotated thereby. On the other end of said journal *j*, and between the right angle pieces *b*, and *e*, and between the arms of the U-shaped lever *f*, is rigidly secured an eccentric *l*. When the journal is rotated the eccentric revolves with it and engages first one arm and then the other of the U-shaped lever, thus throwing it first in one direction and then in the other, carrying the tape *i*, back and forth with great rapidity. Any other suitable contrivance than the pins *h*, may be used to secure the tape to the tape holding arms *g*. The end *k*, of the journal *j*, and the sleeve *a*, may be constructed differently in different tape carriers so that the invention may be used with the hand piece of any dental engine or with a universal hand piece.

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

The combination of the sleeve *a*, provided with a right angle piece *b*, journal *j*, journaled in said sleeve; with the eccentric *l*, secured near the outer end of said journal; U-shaped lever *f*, pivoted to the right angle piece *b*, and having the tape holding arms *g*, plate *e*, secured against the outer face of said U-shaped lever, and tape *i*, secured to the tape holding arms *g*, substantially as shown and described and for the purposes set forth.

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

HENRY CARROL WOFFORD.

Witnesses:

S. G. BAGWELL,
B. F. KING.