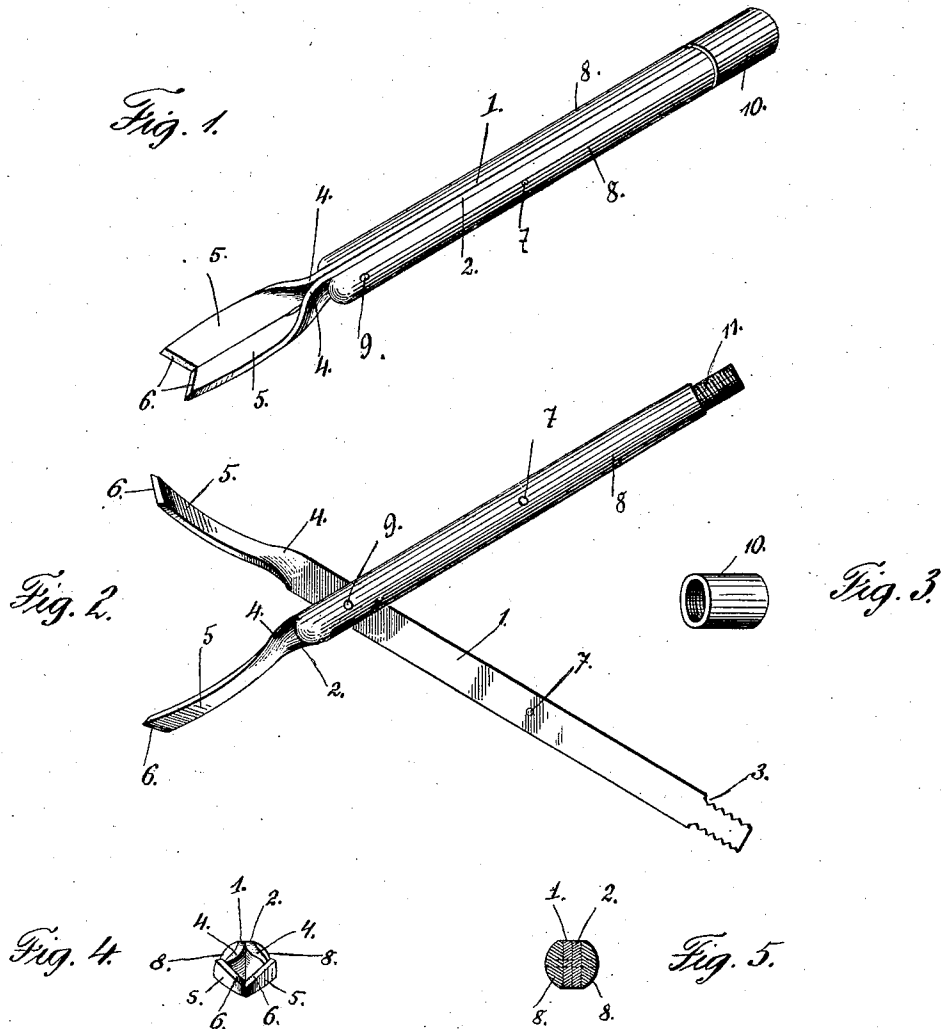


No. 869,035.

PATENTED OCT. 22, 1907.

W. C. WOLFORD.
DENTAL INSTRUMENT.
APPLICATION FILED JAN. 23, 1907.



WITNESSES:

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WILLIAM C. WOLFORD, OF CONFLUENCE, PENNSYLVANIA.

DENTAL INSTRUMENT.

No. 869,035.

Specification of Letters Patent.

Patented Oct. 22, 1907.

Application filed January 23, 1907. Serial No. 353,716.

To all whom it may concern:

Be it known that I, WILLIAM C. WOLFORD, a citizen of the United States of America, residing at Confluence, in the county of Somerset and State of Pennsylvania, have
5 invented certain new and useful Improvements in Dental Instruments, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to dental instruments of that
10 type commonly known as vulcanite trimmers, and the invention has for its object to provide a novel trimmer that can be easily and quickly sharpened.

To this end, I have devised a novel instrument for shaping and trimming vulcanite and celluloid
15 plates, the instrument being designed particularly for trimming around the teeth mounted in a plate. The instrument is adapted to dispense with separate and distinct right and left trimmers heretofore used, and is so shaped that any part of the plate can be easily
20 trimmed and shaped. I have provided the instrument with two angularly disposed blades or cutting edges so pivoted together as to be substantial when in use, yet can be easily and quickly separated when it is necessary to sharpen them. In order that the blades can be
25 separated they are pivoted together a short distance from the cutting edge. The opposite ends of the blades or handles are held together by a threaded sleeve or ferrule which screws on the ends of the blades or handles. By the removal of this sleeve the blades can be sep-
30 arated, similar to a pair of shears, and sharpened.

While I have herein designed the instrument as a vulcanite trimmer I desire to have it understood that the principle of my invention can be readily embodied in chisels and such instruments having angularly dis-
35 posed blades or cutting edges.

With the above and other objects in view, which will more readily appear as the invention is better understood the same consists in the novel construction, combination and arrangement of parts to be hereinafter
40 more fully described and then specifically pointed out in the appended claims.

In the drawing, Figure 1 is a perspective view of my improved trimmer, Fig. 2 is a plan of the same illustrating the blades thereof separated, Fig. 3 is a perspective
45 view of a band or ferrule employed for holding the blades together, Fig. 4 is an end view of the trimmer, and Fig. 5 is a cross sectional view.

To put my invention into practice, I construct my improved instrument or trimmer of two pieces of flat
50 metal 1 and 2, tool steel being preferably used. The end of the pieces of metal 1 and 2 are cut away, as at 3, while their opposite ends are slightly twisted, as at 4 to

provide angularly disposed blades 5, said blades lying at approximately an angle of forty-five degrees with relation to the pieces of metal 1 and 2. The blades 5 are
55 provided with beveled cutting edges 6.

Suitably secured to the pieces of metal 1 and 2 preferably by rivets 7 are rounded strips of wood 8 or similar material, said strips of wood providing a handle for my improved instrument or trimmer. One of the rivets 7
60 is employed for pivotally connecting the two pieces of metal 1 and 2 together, the pivot point being located adjacent to the blades 5 as at 9. To retain the metal pieces 1 and 2 together, whereby the instrument or trimmer may be used, I employ a threaded sleeve or
65 ferrule 10 adapted to screw upon the threaded ends 11 of the strips of wood 8 and the threaded ends 3 of the pieces of metal 1 and 2. When the pieces of metal 1 and 2 are held together by the threaded sleeve or ferrule 10 it will be observed that the blades 5 are held together
70 at approximately right angles to one another and that a V-shaped cutting edge is formed by said blades. By removing the threaded sleeve or ferrule 10, the beveled cutting edges 6 of the blades 5 can be easily separated, as shown in Fig. 2 of the drawing, and sharpened.
75

My invention entirely resides in the two pivoted parts of the instrument or trimmer which facilitate the sharpening of the instrument, and the many advantages of such a construction will be apparent to dentists and those skilled in the art of manipulating vulcanite
80 trimmers and similar instruments or chisels.

It is obvious that the pieces of metal 1 and 2 can be provided with suitable handles, and other means may be employed in lieu of the threaded sleeve or ferrule for retaining the pieces of metal 1 and 2 together.
85

What I claim and desire to secure by Letters Patent is—

1. A vulcanite trimmer consisting of two pieces of metal pivotally connected together, said pieces of metal having their ends contracted and twisted to form angularly dis-
90 posed blades having the blunt ends beveled to form cutting edges, handles carried by said pieces of metal, and a threaded sleeve or ferrule for retaining said pieces of metal together.

2. A vulcanite trimmer comprising two pivoted angularly-disposed blades having beveled ends constituting the cutting surface of the blades and disposed at an angle to the longitudinal edges of the blades to form a V-shaped cutting edge at the end of the trimmer when the blades are closed.
100

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

WILLIAM C. WOLFORD.

Witnesses:

A. T. GROFF,
O. F. MCKEE.