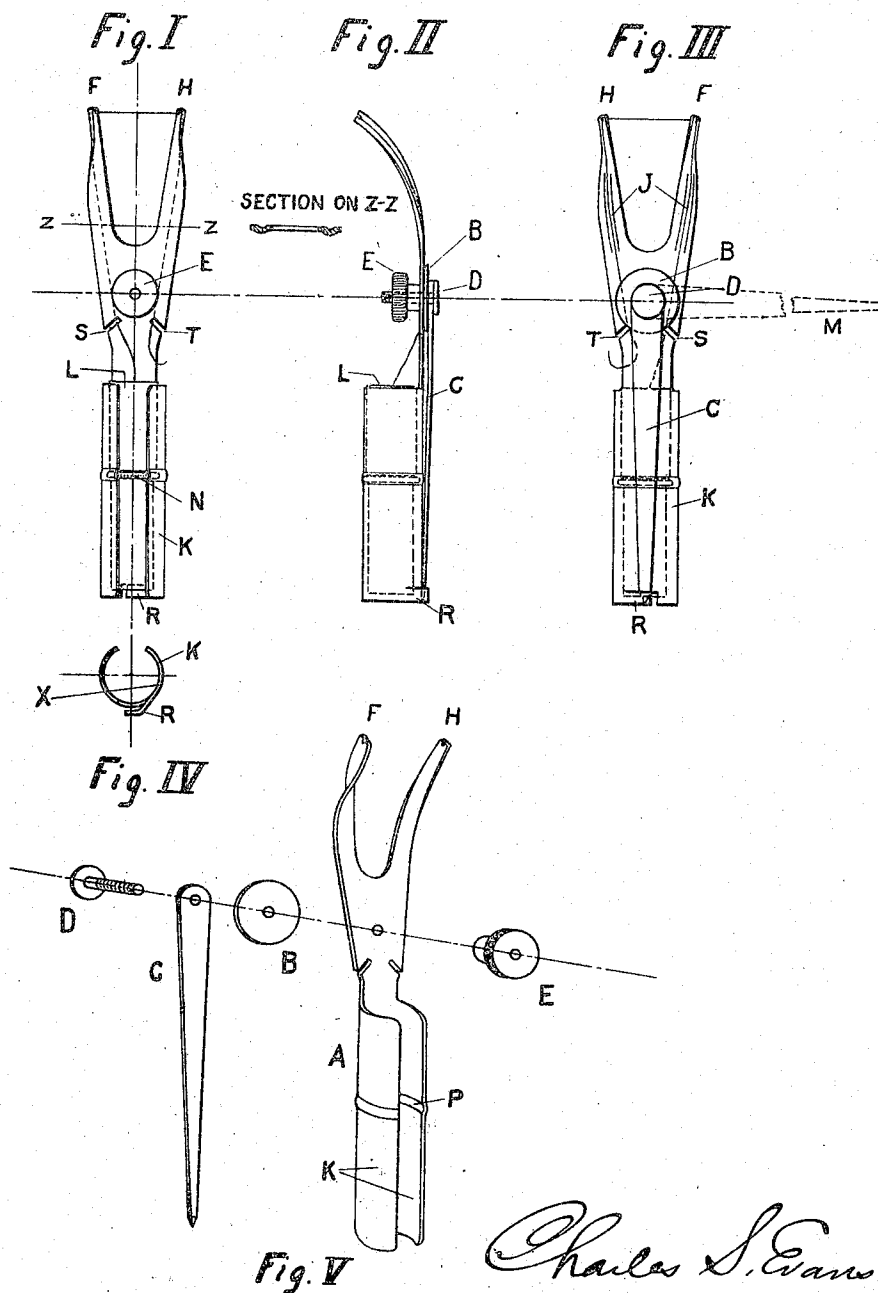


No. 867,264.

PATENTED OCT. 1, 1907.

C. S. EVANS.
DENTAL IMPLEMENT.
APPLICATION FILED DEC. 10, 1906.



WITNESSES.

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DENTAL IMPLEMENT.

No. 867,264.

Specification of Letters Patent.

Patented Oct. 1, 1907.

Application filed December 10, 1906. Serial No. 347,034.

To all whom it may concern:

Be it known that I, CHARLES S. EVANS, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Dental Implements; 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 and figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in dental instruments, and comprises an implement for removing substances from between the teeth by means of a thread.

The object of the invention is to provide a device of the above character which possesses the novelty and advantageous features hereinafter described and claimed.

In the annexed drawings—Figure I, is a front vertical elevation of the implement. Fig. II, is a side elevation. Fig. III is a rear elevation. Fig. IV, is a partial end view. Fig. V, is a general view of the various parts detached and all in their proper relation.

In a detail description of the invention, similar reference characters indicate corresponding parts.

A designates the entire body portion of the implement which is stamped and formed from sheet metal of suitable gage, and consists of two prongs F and H which are notched at their extremities and twisted into a suitable position to receive a thread; this thread is shown extending from one fork to the other in Figs. 1 and 3; these prongs or forks are continuous with a hollow cylindrical shell K open at both ends and along a section of the front.

B is a washer rounded on one side as shown in Fig. II; C is a piece of celluloid or other suitable material having an opening in one end and shaped at the other end into a tooth pick.

D designates a flat-headed screw designed to pass through the tooth pick, the washer and the body of the instrument and to engage a knurled thumb nut E by means of which the tooth pick and the washer may be clamped against the body of the instrument.

L designates a capsule or magazine containing dental floss such as is commonly sold at drug stores and which is inserted into the holder or cylindrical body K from the bottom, and is held therein by means of the annular groove P which lightly engages the bead or ridge N on the capsule by reason of the natural resiliency

of the metal walls of said holder. The tooth pick C is pivoted on the screw D on the back of the instrument and may be clamped in any convenient position as shown at M, by means of the thumb nut E. When not in use, it is secured and the point protected by means of a finger-like flap or projection R formed from and raised slightly above the back of the holder as shown in Figs. III and IV.

S and T are slots through which the thread from the capsule may be conveniently passed through the body of the instrument and under the washer B when the latter is loosened.

To prepare the instrument for use, the capsule may be inserted as described into the holder K and the thread passed through the slot S and under the washer B, then down the groove and over the notched end of the prong F, over and up the prong H and again under the washer and through the slot T. It is then in a position to be secured firmly across the prongs of the instrument by tightening the thumb nut E. By loosening this thumb nut, fresh thread may be drawn into the fork without re-threading the instrument, and the portion used severed by friction across a sharp corner left at X, Fig. IV, or other suitable place. To facilitate the holding of the thread, a portion of the prongs or forks is grooved on the outside of the curved part as shown at J, or by the section on line z—z of Fig. I.

I claim:

1. A dental implement of the type specified, comprising a cylindrical body having a longitudinal slot on one side and extending the length thereof, and an out-turned annular groove around its circumference, the end of said body portion terminating in forks, a screw penetrating the portion of the implement lying between the cylindrical body and the forks, a washer penetrated by said screw, and a thumb nut having an extended portion and adapted to engage the screw, as herein shown and described.

2. In a dental implement of the type specified, a body stamped from sheet metal one end thereof being of cylindrical form with an intervening longitudinal slot, and an annular groove, said cylindrical portion being adapted to contain a thread capsule, the other end of said body terminating in prongs with notches on the ends thereof adapted to receive the thread, a screw penetrating said body adjacent to the prongs, a tooth pick pivoted on said screw, a washer penetrated by the screw, said washer being adapted to clamp the thread passed around the ends of the prongs, and a thumb nut adapted to tighten said washer.

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

CHARLES S. EVANS.

Witnesses:

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R. J. MCCARTY.