

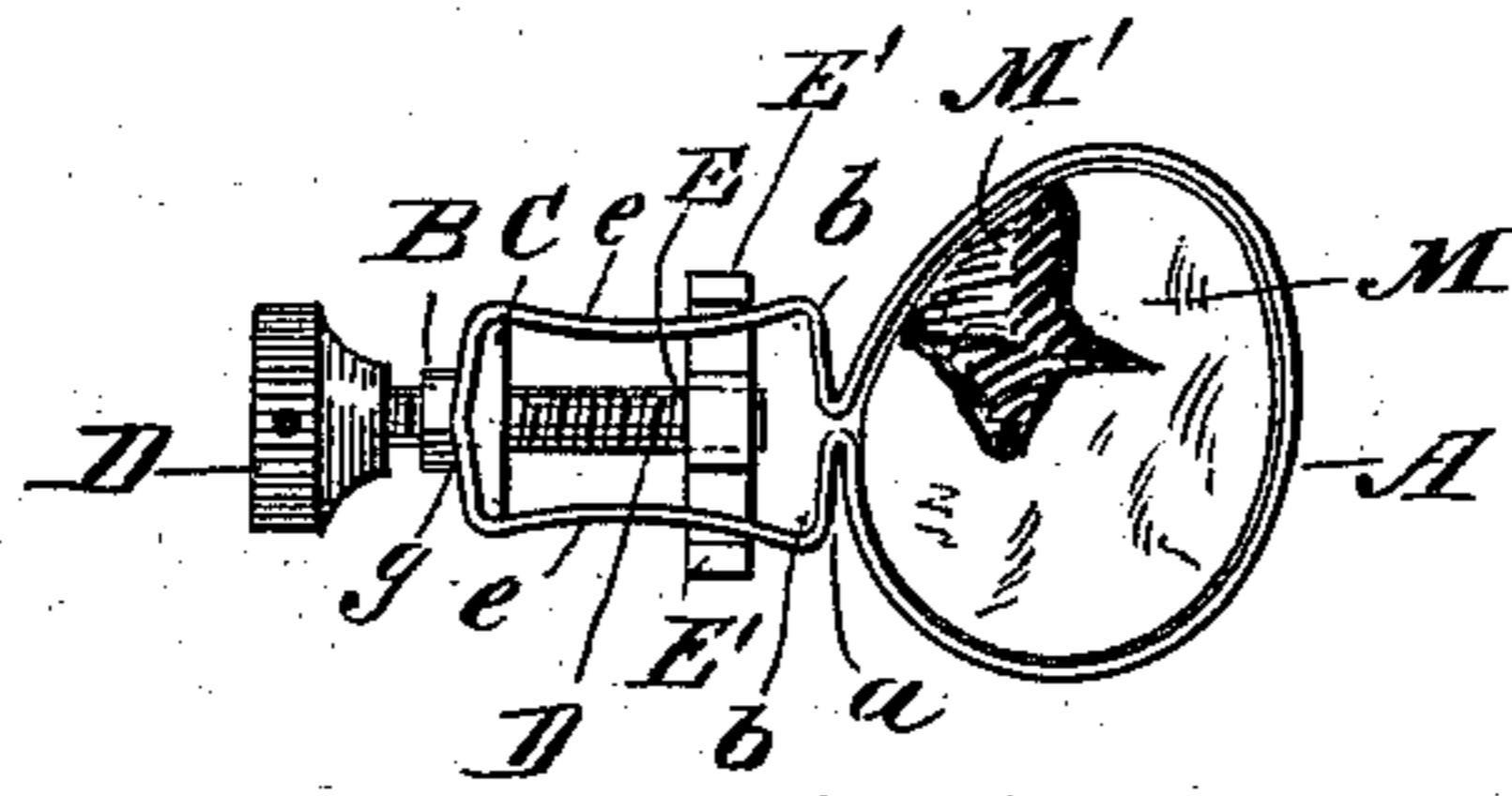
(No Model.)

C. A. MEISTER.  
DENTAL MATRIX.

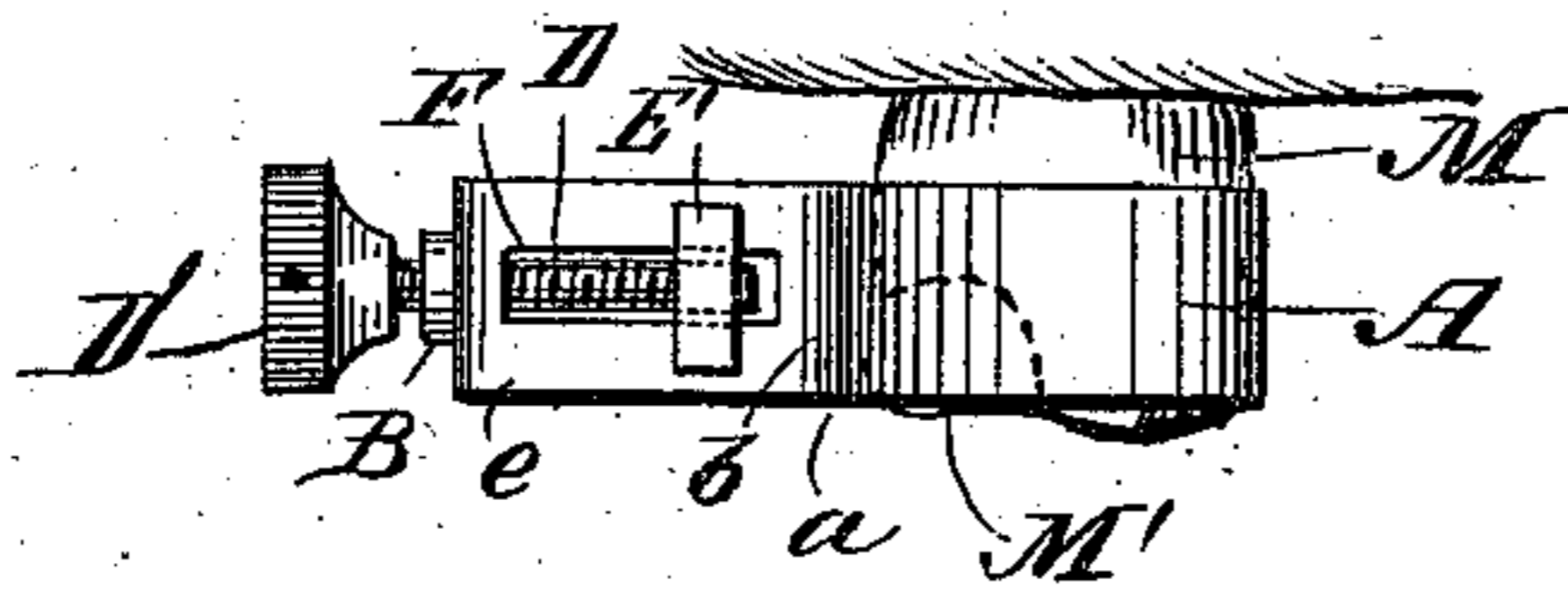
No. 400,587.

Patented Apr. 2, 1889.

*Fig. 1*



*Fig. 2*



WITNESSES:

*F. M. Arzle.*  
*C. Sedgwick*

INVENTOR:

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BY

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ATTORNEYS.

# UNITED STATES PATENT OFFICE.

CHRIST. A. MEISTER, OF ALLENTOWN, PENNSYLVANIA.

## DENTAL MATRIX.

SPECIFICATION forming part of Letters Patent No. 400,587, dated April 2, 1889.

Application filed August 15, 1888. Serial No. 282,795. (No model.)

*To all whom it may concern:*

Be it known that I, CHRIST. A. MEISTER, of Allentown, in the county of Lehigh and State of Pennsylvania, have invented a new and  
5 Improved Dental Matrix, of which the following is a full, clear, and exact description.

The object of my invention is to provide a dental matrix and clamping means to be used on a tooth while it is being filled; and it consists in the parts which will be hereinafter  
10 described, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate  
15 corresponding parts in both the figures.

Figure 1 represents a top plan view of the matrix attached to a tooth, and Fig. 2 is a side view.

The matrix is preferably made of a flat  
20 band of resilient metal. The body or band proper, A, of the matrix is circular. The tooth is indicated by the letter M, and M' is a cavity in said tooth. The band is contracted at a, thence flared outward in opposite directions  
25 at b b, thence extended outward nearly at right angles, forming sides e e, and the two ends turned inward and united at g. The outer side of the device at the point g is provided with a fixed collar, B, and the inner side  
30 thereof at said point g is provided with a plate, C, fixed thereto. The sides e e' are inclined inward from the main body outward. There is a screw-threaded bore through the collar, point g, and plate aforesaid for the reception  
35 of a screw-threaded stem, D. The outer end of said stem is provided with a head, D', having a milled edge. To the inner end of the stem D is swiveled a cross-head, E, the outer ends, E', of which are T-shaped. Each side  
40 e e of the device is provided with a longitudinal slot, F, in which the said T-shaped ends of the cross-head are respectively engaged.

The operation is as follows: The band A of

the matrix is engaged to a tooth to be filled in the manner shown in the drawings, having  
45 been fitted thereto by moving the cross-head in or out, as required, by means of the screw. To tighten the band on a tooth, the cross-head is moved inward against the taper sides e e. This action causes a contraction of the neck  
50 a and firmly clamps the band to the tooth, the pressure of the band on the tooth being equal at all points.

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

1. A matrix for teeth, consisting of a band having a body for engaging a tooth, an integral extension of said band, consisting of slot-  
60 ted inclined side pieces, a cross-head engaged in the slots of said sides, and means for actuating the cross-head, substantially as described.

2. A matrix for teeth, consisting of a band having a body for engaging a tooth, an integral  
65 extension of said band, consisting of slot-ted inclined side pieces, the outer united ends of said extensions being provided with a screw-threaded opening, in combination with a screw-threaded stem having a cross-head swiv-  
70 eled thereto, said cross-head being mounted in the slots of the side pieces aforesaid, substantially as described.

3. A matrix for teeth, comprising a tooth-grasping band having extensions projecting  
75 from its adjacent ends, a nut between outer ends of said extensions, a cross-head sliding upon said extensions to force them toward and from each other, and thereby contract or ex-  
80 pand the ring, and a screw passing through the nut into engagement with the cross-head, substantially as set forth.

CHRIST. A. MEISTER.

Witnesses:

NORMAN L. C. TROXELL,  
CHARLES H. HEFFNER.