

E. OSMOND.

Devices for Retaining Filling in Teeth.

No. 143,418.

Patented Oct. 7, 1873.

Fig. 1

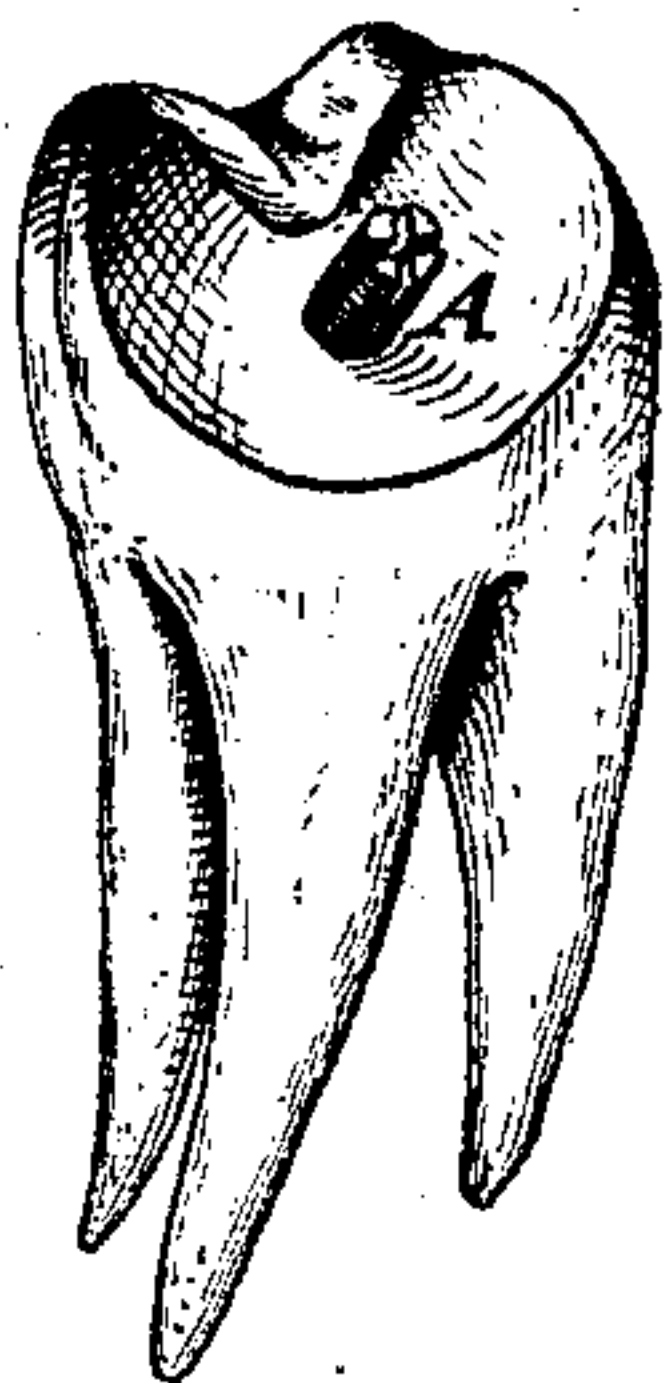


Fig. 2

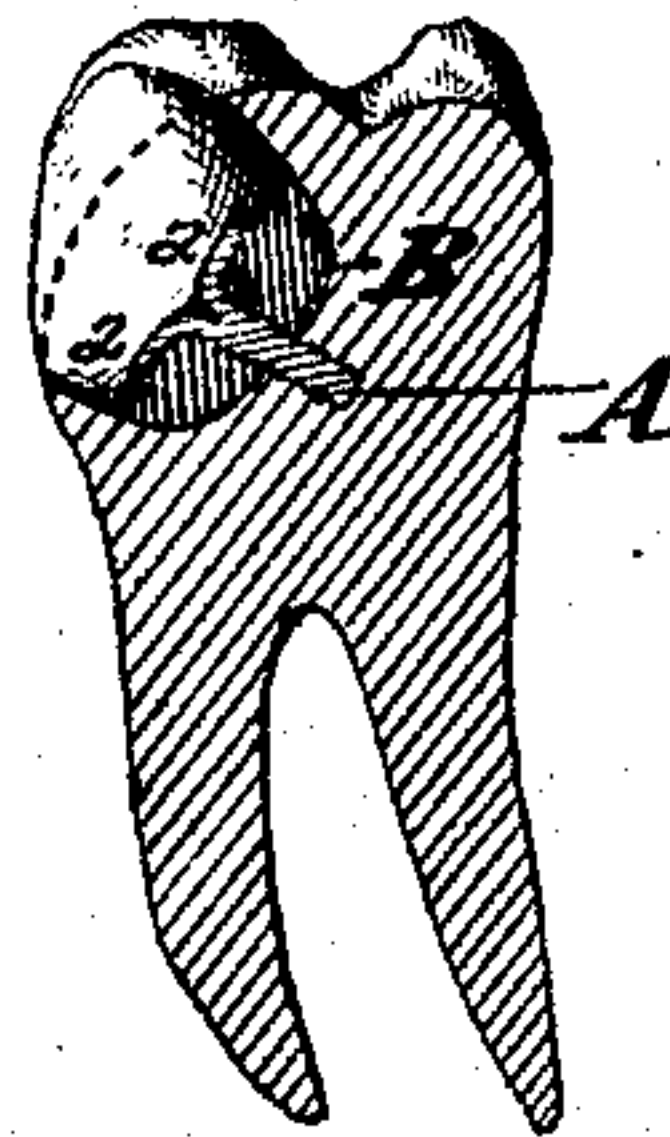


Fig. 6

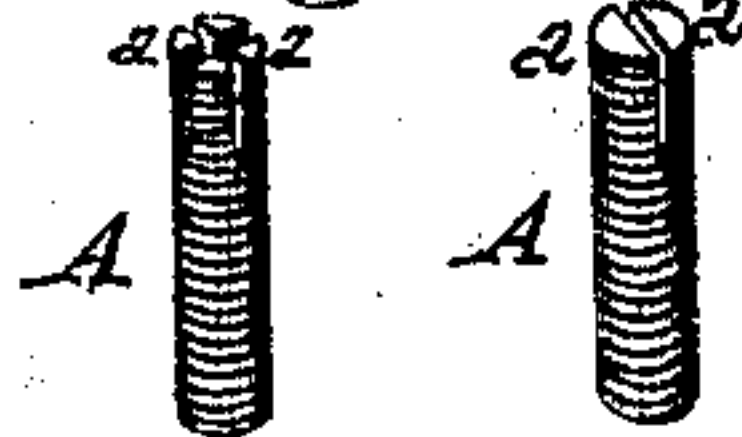


Fig. 3

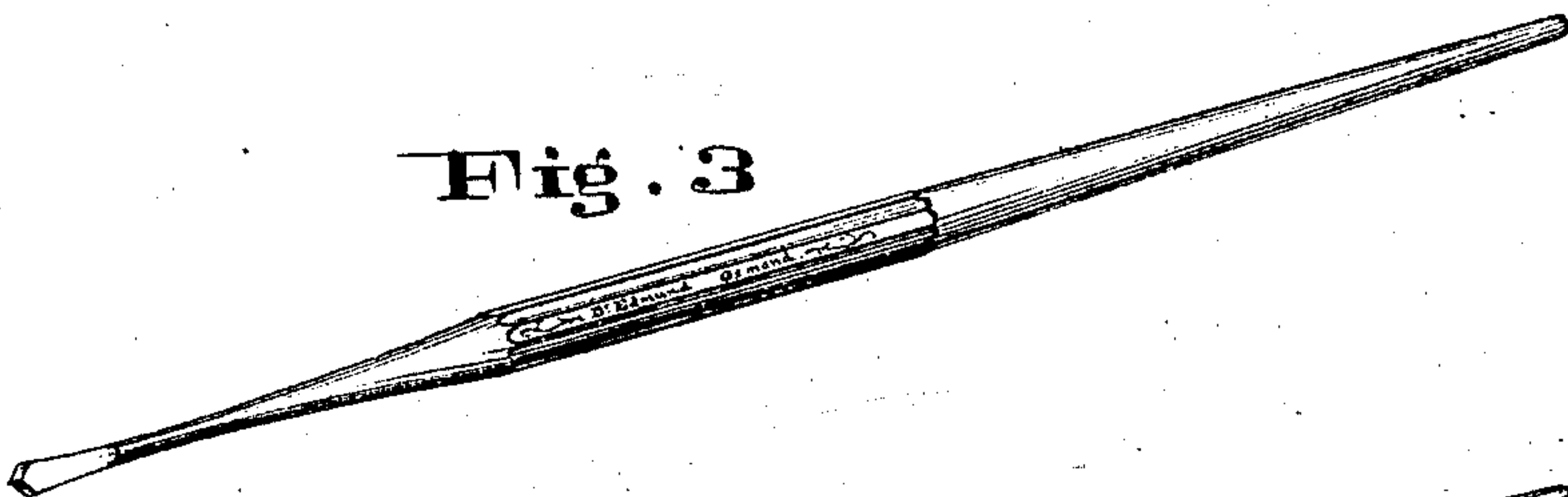
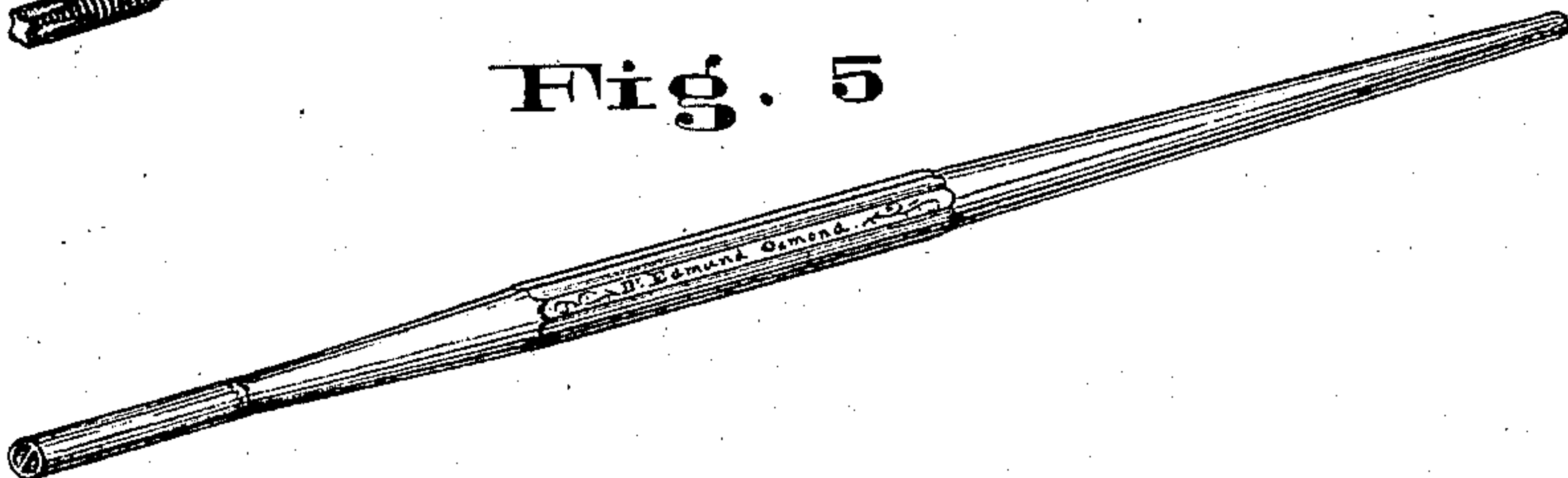


Fig. 4



Fig. 5



Attest

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EDMUND OSMOND, OF CINCINNATI, OHIO.

IMPROVEMENT IN DEVICES FOR RETAINING FILLINGS IN TEETH.

Specification forming part of Letters Patent No. **143,418**, dated October 7, 1873; application filed July 23, 1873.

To all whom it may concern:

Be it known that I, EDMUND OSMOND, of Cincinnati, Hamilton county, State of Ohio, have invented a certain new and useful Improvement in Devices for Anchoring Fillings in Teeth, of which the following is a specification:

This invention is intended to improve the manner of securing the filling by means of a concealed screw, heretofore practiced.

My invention consists of a small screw, bifurcated or divided at the end into two or more parts or branches, the solid end being adapted to screw into a prepared hole in the solid part of a tooth, and the several parts of the divided end adapted to bend over radially outward, so as to anchor the base of the filling.

Figure 1 is a perspective view of a tooth with my improved anchoring-screw fitted therein preparatory to the ends being opened out and bent over to securely anchor the filling. Fig. 2 is a section of a tooth with one of my anchoring-screws inserted therein, with the bifurcated end opened out and bent over to anchor the base of the filling therein shown. Fig. 3 is a perspective view of the drill for boring the hole in the tooth for the reception of the screw-anchor. Fig. 4 is a perspective view of the tap for putting the thread in the hole so drilled. Fig. 5 is a perspective view of the screw-driver which I use to properly embrace the bifurcated end of the screw, and force the same into the tapped hole in the tooth. Fig. 6 represents a perspective view of the modified forms of the screw-anchors.

My anchor consists simply of a short screw, A, prepared from gold wire or other preferred metal, and having one end solid, the other end being split or divided into two or more branches, *a*, as shown clearly in Figs. 1, 2, and 6; the solid end being adapted to enter the solid part of the tooth in a tapped hole prepared by instruments, Figs. 3 and 4, the screw being forced in by the instrument shown in Fig. 5. When one or more screws have been so fitted into place the filling may be commenced, and when sufficient filling has been placed around the anchor to form a permanent base for the entire filling of the tooth the branches *a* are opened or spread out, and forced down upon the base B, so as to firmly secure the latter in the cavity of the tooth for the reception of the balance of the filling over the anchor or anchors, which may be filled in in the ordinary way over the base up to dotted line in Fig. 3, so as to make a solid permanent filling for the entire capacity of the cavity; or the branches may be spread out and bent over before the deposit of any filling, the gold or other material for filling being packed around the anchor afterward.

I claim—

A screw-anchor, A, formed with a divided end or branches, *a*, to be bent back for securing the fillings of teeth, substantially in the manner and for the purpose specified.

In testimony of which invention I hereunto set my hand.

EDMUND OSMOND.

Witnesses:

FRANK MILLWARD,
J. L. WARTMANN.