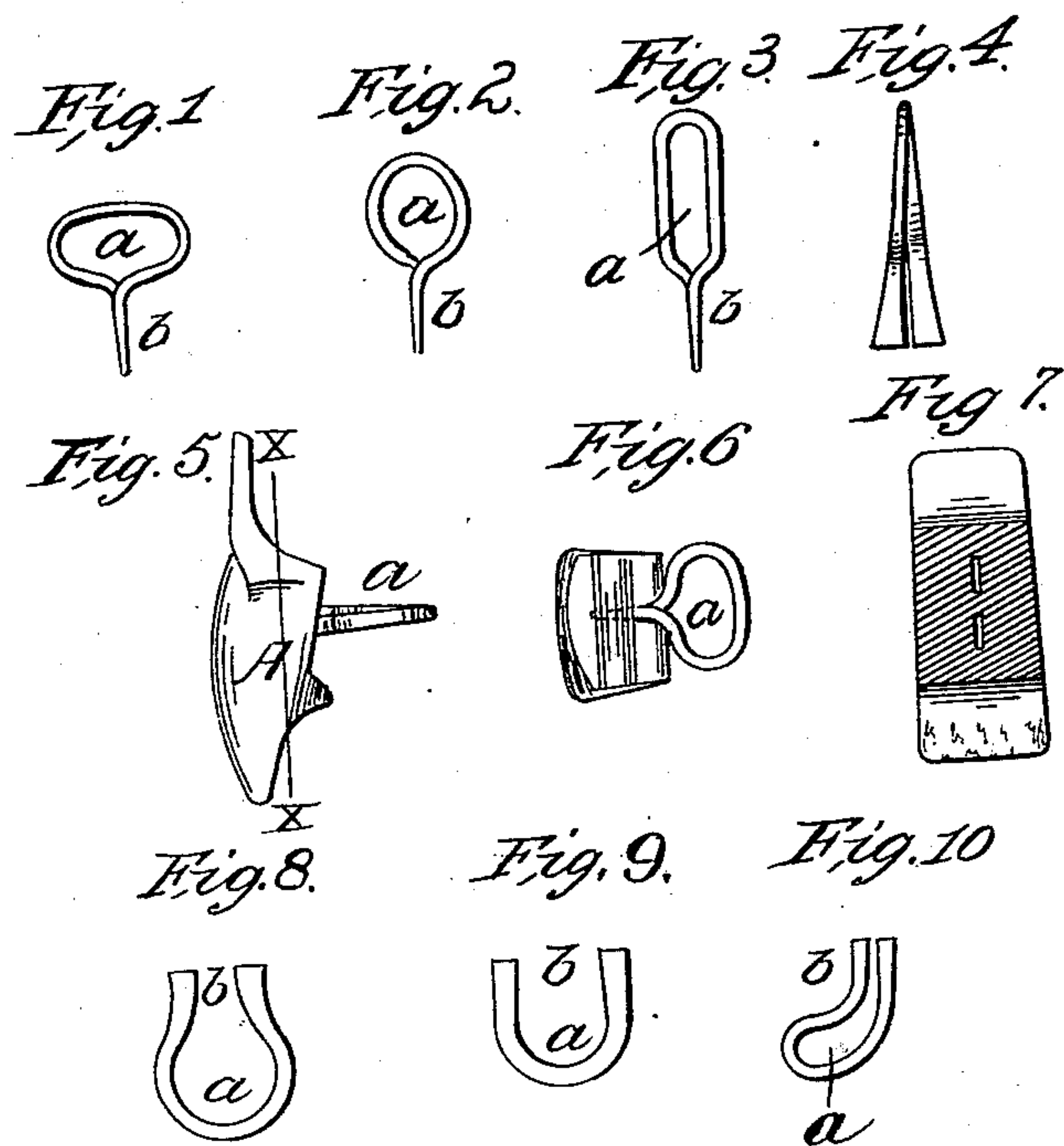


J. C. K. CROOK.
ATTACHMENT FOR ARTIFICIAL TEETH.

No. 64.287.

Patented Apr. 30, 1867.



Witnesses.
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JOHN C. K. CROOKS, OF BIRMINGHAM, MICHIGAN.

Letters Patent No. 64,287, dated April 30, 1867.

ATTACHMENT FOR ARTIFICIAL TEETH.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN C. K. CROOKS, of Birmingham, in the county of Oakland, and State of Michigan, have invented a new and useful Improvement in Attachment for Artificial Teeth; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figures 1, 2, 3 are views of my improved teeth attachment showing different forms of the eye or loop for securing it to the rubber base.

Figure 4 is a view of the same showing the double shank for inserting in the teeth.

Figure 5 is a side view of a tooth showing the vertical position of the double shank in the body of the tooth or eye for insertion in the base.

Figure 6 is a top view of a tooth for the same illustration.

Figure 7 is a vertical section taken in the line *x x*, fig. 5, showing the vertical position of the shank.

Figures 8, 9, and 10 are also modifications of form of the attachment.

Similar letters of reference indicate corresponding parts.

This invention relates to an improvement in the construction and arrangement of an attachment for artificial teeth, whereby they are secured to the rubber base in general use; and consists in an eye attachment having flat double shanks inserted in the tooth, instead of the old method with straight and headed pins. My improved eye and double-shank attachment is made, as usual, of platina wire, and is designed to be set in the porcelain or other artificial teeth, by the manufacturers thereof, ready for the use of the operating dentist for connecting with the rubber base.

In the drawings, *a* is the eye, and *b* the shank of my improved attachment. It is formed by bending a piece of platina wire, usually employed for this purpose, into the shape of a loop or eye, in such manner that the two ends of the wire shall lie side by side in a line at right angles to the plane of the eye. The neck or shank *b* thus formed is therefore double, and the two ends of the shank are flattened in line with each other, from the shoulder, at their junction with the eye, to their extremities, in a greater degree at the latter than the former, so that the extremities are thereby expanded or widened to form the double shank slightly wedge-shaped or dove-tailed, as shown clearly in fig. 4. The double shank *b* is inserted in the tooth *A*, with the two ends in the longitudinal line of the tooth, as shown clearly in figs. 5, 6, and 7, having the same relative position as the pins in the old "plate tooth" used on metallic plates with metallic backing, which seldom or never broke at the point of insertion of the pins, wherein the arrangement differs entirely from the present ordinary plan of attachment, with two straight pins placed in a line transversely to the tooth, and having heads or hooks (bent by the dentist) for securing them to the rubber base, which arrangement weakens the tooth and makes it subject to fracture at that point. By this arrangement of the double shank *b* in the tooth it will be seen that the eye *a* will be so placed relatively to the tooth as to lie in the same plane with the rubber base, at right angles to a vertical line through the tooth, and thus be firmly anchored or held in place, making a much stronger connection of the tooth to the base than is possible with hooked or headed pins. It will be observed also that greatly increased strength in the attachment is secured by the dove-tail form of the double shank *b* in the tooth *A*, while the vertical position of the two ends, as well as their flat form, secures the tooth itself from diminution of body and strength laterally or in its transverse section.

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

The loop or eye *a*, provided with the double shank *b*, the two ends of which are flattened in line with each other in such a manner that their outer extremities shall be widened to a greater degree than their points of connection with the eye, thereby being slightly wedge-shaped, said shank being inserted in the tooth *A* with the said flattened ends in the longitudinal line of the tooth, while the eye itself is at right angles to said line, substantially as herein shown and described.

JNO. C. K. CROOKS.

Witnesses:

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