

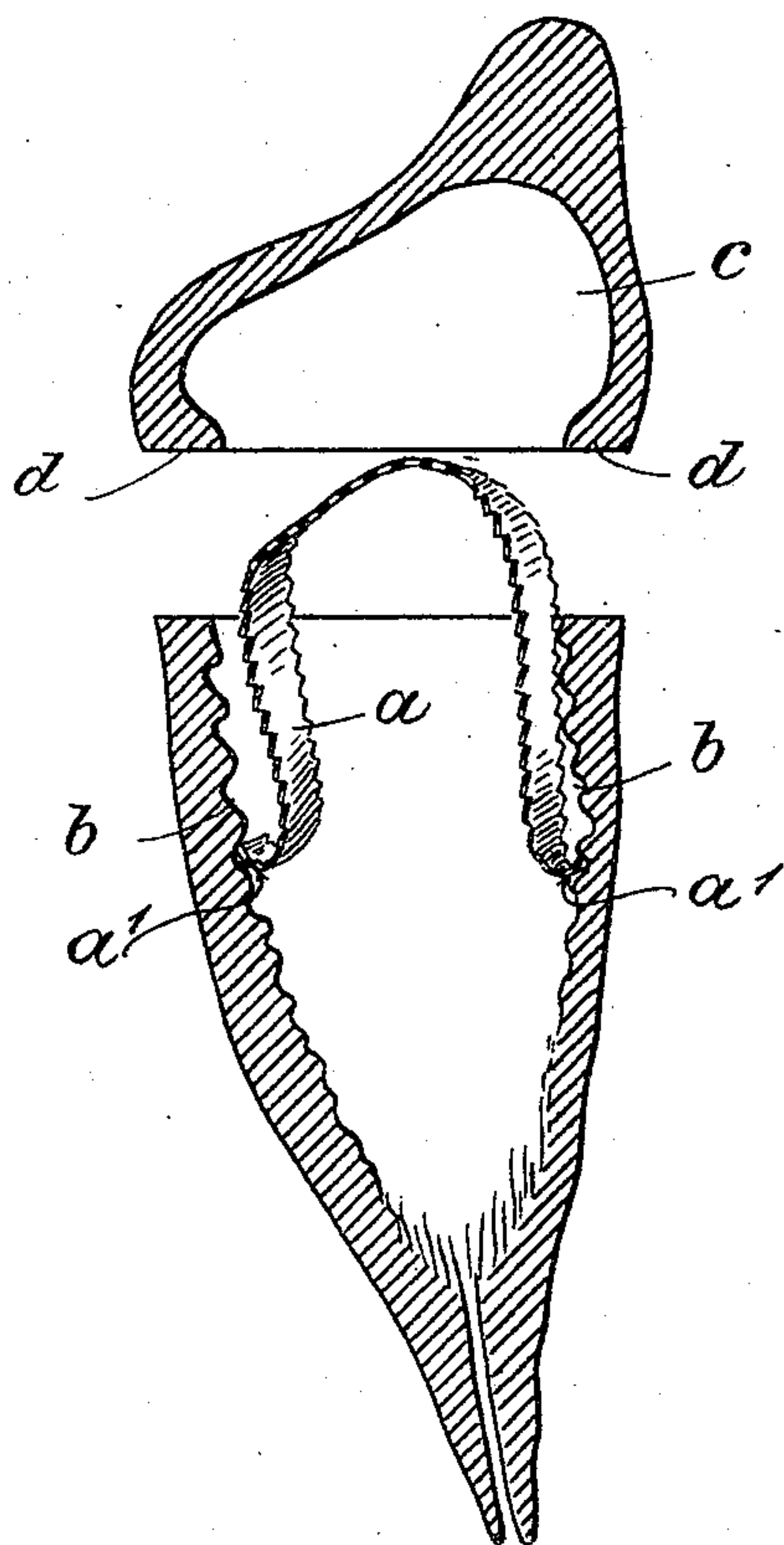
No. 616,815.

Patented Dec. 27, 1898.

**M. TRESENREITER.
ATTACHING TOOTH CROWNS.**

(Application filed Aug. 20, 1898.)

(No Model.)



Witnesses:
Anton Gloetzer
H. H. Banks.

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UNITED STATES PATENT OFFICE.

MAX TRESENREITER, OF MUNICH, GERMANY.

ATTACHING TOOTH-CROWNS.

SPECIFICATION forming part of Letters Patent No. 616,815, dated December 27, 1898.

Application filed August 20, 1898. Serial No. 689,129. (No model.)

To all whom it may concern:

Be it known that I, MAX TRESENREITER, a subject of the King of Bavaria, and a resident of Munich, Kingdom of Bavaria, Germany, have invented a certain new and useful Improved Device for Attaching the Crown to the Roots of Teeth, of which the following is a full, clear, and exact description.

The present invention consists of a device for attaching the crown to the roots of teeth.

In order to render the present specification more easily intelligible, reference is had to the accompanying drawing, which shows a vertical section through a tooth with the attachment applied thereto.

In carrying the invention into practice the top of the root of the tooth is filled or otherwise rendered level, the said root being also provided with ratchet-like notches *b* on the interior walls, which indentations are often present in the teeth and need not first be cut. A spring-bow *a*, having hooks *a'* at each end, is now sprung into the root, so that its ends *a''* engage in the notches of the root. The edges of said bow are advantageously notched or roughened, and the bow or bend of the same is allowed to stand out above the upper surface of the root, as shown. The bow is now cemented into the root and the crown *c*, filled with cement, is placed onto the said root. The crown may also be partially filled with an antiseptic of suitable kind. The spring-bow *a* will thus be entirely in the tooth and will form, together with the inwardly-turned ledge *d* of the crown, over which the

cement of the root will grip, a secure and durable attachment.

By means of the present invention the employment of the pins, screws, and similar disadvantageous means hitherto applied is entirely obviated.

The cavity in the root is preferably filled with a copper-amalgam cement. This amalgam hardens in from two to three hours. This hardening can take place when the patient is at rest without at all disturbing him. For purposes of safety a rubber cap may be applied to or drawn over the projecting tooth or crown.

I claim as my invention—

In a device for fastening tooth-crowns to natural roots, the combination with a hollow root having internal indentations of an elongated U-shaped resilient bow having its ends bent outward and backward to form teeth engaging the internal indentations in the root, a crown hollowed on its under side and having inward-projecting flanges, the hollowed portion of the crown receiving the upper portion of the resilient bow, and a cement filling in the hollows of the crown and root, incasing all of the bow except the ends of the teeth which engage the walls of the root, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

MAX TRESENREITER.

Witnesses:

HARRY BELMONT,
CARL APPEL.