

No. 834,196.

PATENTED OCT. 23, 1906.

C. M. DATTERWAY.  
SAW TOOTH.

APPLICATION FILED AUG. 31, 1905.

FIG. 1.

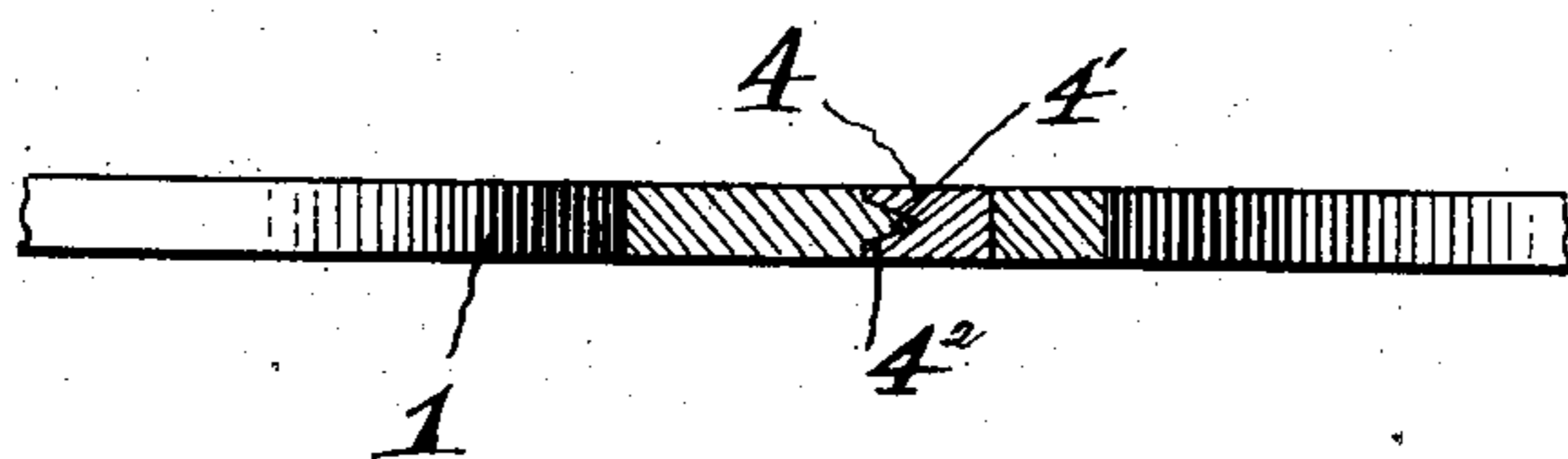
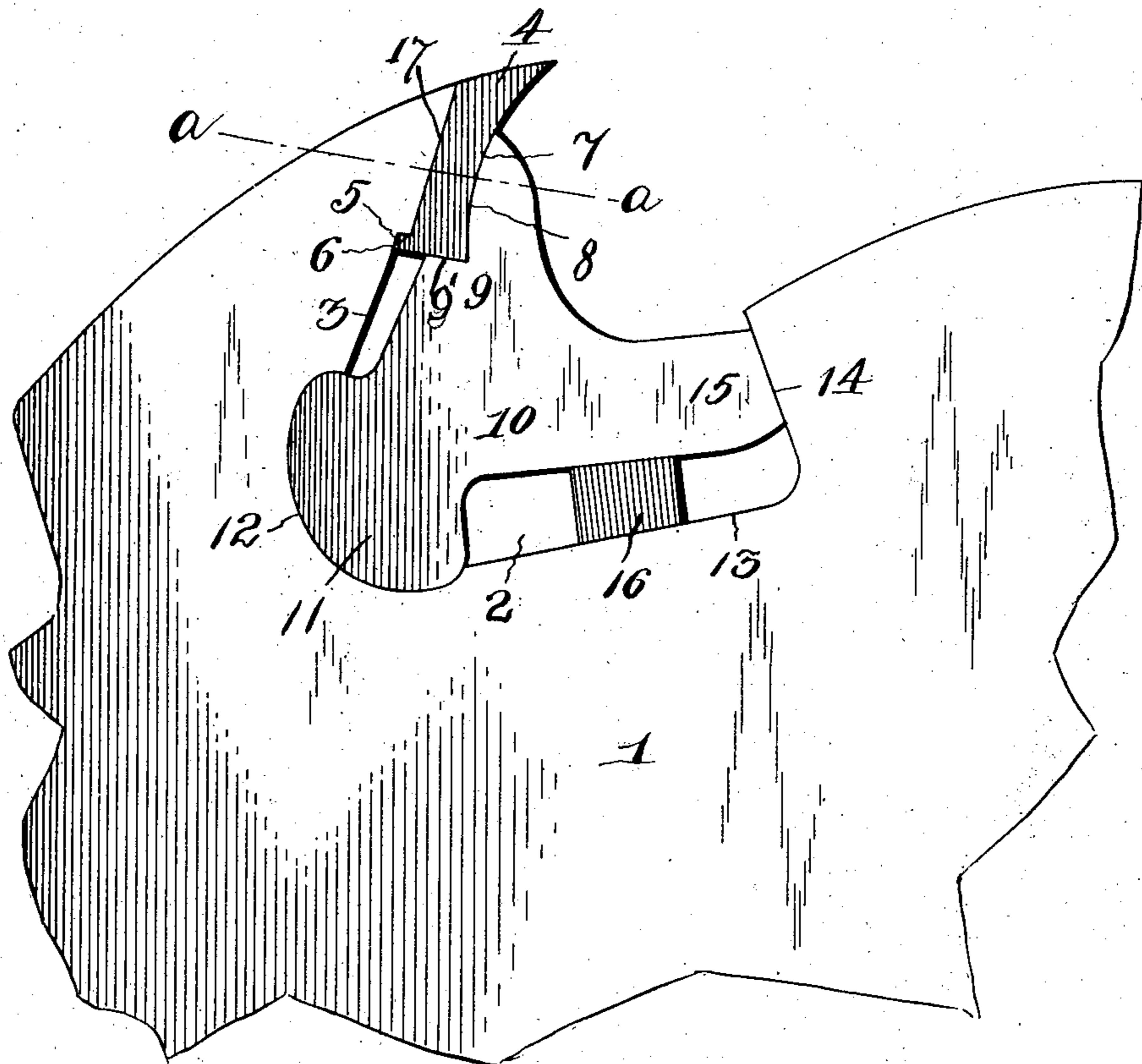


FIG. 2.

Witnesses  
Jas. A. Kachl.  
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# UNITED STATES PATENT OFFICE.

CONRAD M. DATTERWAY, OF YOUNGSTOWN, PENNSYLVANIA.

## SAW-TOOTH.

No. 834,196.

Specification of Letters Patent.

Patented Oct. 23, 1906.

Application filed August 31 1905. Serial No. 276,597.

*To all whom it may concern:*

Be it known that I, CONRAD M. DATTERWAY, a citizen of the United States, residing at Youngstown, in the county of Westmoreland and State of Pennsylvania, have invented certain new and useful Improvements in Saw-Teeth; 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.

My invention relates to improvements in saws provided with removable saw-teeth, the object of my invention being to effect improvements in the construction of the saw-tooth and in the construction of the saw-blade whereby the tooth is firmly held in place and cannot become casually disengaged.

In the accompanying drawings, Figure 1 is an elevation of a portion of a saw provided with a saw-tooth embodying my improvements. Fig. 2 is a detail sectional view of the same, taken on the plane indicated by the line *a a* of Fig. 1.

The saw-blade 1 is provided with an opening at its cutting edge to provide recesses for the reception of the detachable teeth and of the devices for securing the teeth in place, one of the said recesses being shown at 2. One portion 17 of the blade is provided with a tongue 4', which contacts with a groove 4<sup>2</sup> in one edge of the tooth 4, the peripheral portions of the blade and tooth forming a continuous curve. The edge 3 of the recess against which the tooth 4 abuts is provided with a shoulder 5, and the tooth is provided with a projection to provide a shoulder 6 to bear against the said shoulder 5 and lock the tooth against the longitudinal outward movement, so that the tooth cannot become casually detached from the saw-blade. The tooth has a concave front edge 7, which is engaged by the convex edge 8 of the arm 9 of

the locking-piece 10, said arm being provided with an angular shoulder 9', formed by a continuation of the convex face portion. The said locking-piece is of the form here shown and is provided with a curved portion 11 to fit in the similarly-shaped seat 12 at the angle between the edges 3 and 13 of the opening in the saw-blade. The said opening has a side 14, which converges outwardly toward the side 3 and which is engaged by the outer end of the arm 15 of the piece 10. A locking-rib 16 bears between the arm 15 and the edge 13 of the opening in the saw-blade and serves to securely hold the piece 10 in place and keep the arm 9 thereof in engagement with the concave front edge of the detachable tooth.

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

A saw-blade having a recessed opening therein, a tooth therewith having a curved upper end and a straight lower end and having a concave face portion and a grooved rear portion to engage a tongue on the upper end of the blade, said tooth being also provided with a projection at its lower end to form a shoulder to contact with a shoulder of the blade, a locking device having a convex face portion to contact with the concave face portion of the tooth, a shoulder formed by a continuation of the convex face which serves to contact against the under face of the tooth, means on said locking device connected to means on the blade, and a rib for securing the locking device against the tooth.

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

CONRAD M. DATTERWAY.

Witnesses:

JOHN F. BUSCH,  
ANTHONEY DATTERWAY.