E. BUELL.

Devices for Swaging Saw-Teeth.

No. 146,647. Patented Jan. 20, 1874.

Fig. 1.

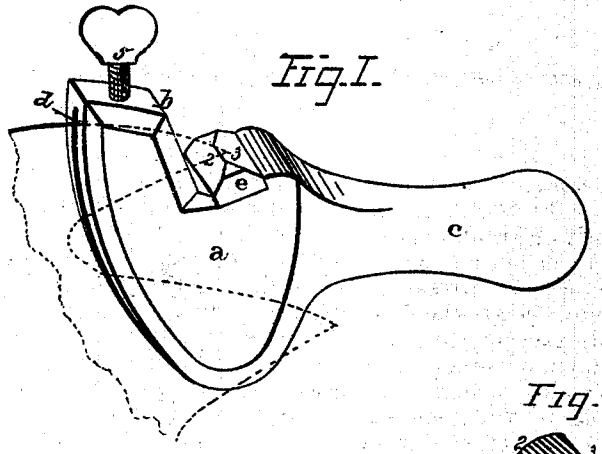


Fig. 3.

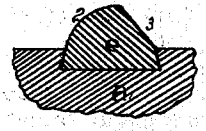
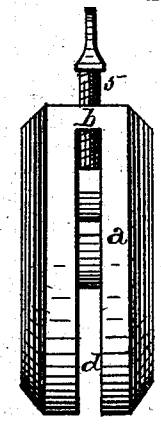


Fig. 2.



WITNESSES:

Jas. E. Hutchinson
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INVENTOR.

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per
F. A. Lehmann, Atty.

UNITED STATES PATENT OFFICE.

ECKFORD BUELL, OF COLUMBUS, OHIO.

IMPROVEMENT IN DEVICES FOR SWAGING SAW-TEETH.

Specification forming part of Letters Patent No. **146,647**, dated January 20, 1874; application filed January 3, 1874.

To all whom it may concern:

Be it known that I, ECKFORD BUELL, of Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Devices for Dressing Saw-Teeth; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

The nature of my invention relates to an improvement in devices for dressing saw-teeth; and it consists in a metal frame or casting, having a slot cut through its under side, so that the frame will rest upon the top of the tooth, allowing its cutting-point to project through an opening on one side. Dovetailed into the frame, at the point where the tooth projects through, is a steel bar of suitable shape, which forms the anvil upon which the tooth is drawn out. Projecting down through the top of the frame into the slot is a set-screw, which regulates the pitch of the teeth on the anvil.

The accompanying drawings represent my invention.

a represents an iron frame or casting, preferably of the shape here shown, having the extension *b* upon its top, and which is provided with a handle, *c*, so that it can be readily carried about, or moved and adjusted at will. Cut through the under side of this casting, as shown, is the slot *d*, which allows the casting to be passed over the top of one of the teeth, and which is supported in position by the extension *b*, which forms a bridge across the top of the tooth. The slot or groove *d* is cut entirely through the extension, forming an opening of suitable length, through which the point of the tooth of the saw projects over the anvil *e*. This anvil consists of a steel bar dovetailed into the top of the casting, and which has its upper side so shaped as to present a rounding surface, 2, and a flat inclined surface, 3, upon which the point of the tooth rests.

By this form of anvil the under side of the teeth, near their points, are made concave, so as to give each tooth a better and a clearer cut than they would otherwise have.

Projecting down through the top of the extension into the slot or groove is a set-screw, 5, which bears down upon the top of the tooth, and regulates the point of the tooth at any desired angle to the anvil. The point of the tooth is then drawn out, by blows from a hammer, in the usual manner, leaving its under side slightly concaved.

Having thus described my invention, I claim—

1. The casting *a*, having a groove or slot cut through its under side, and provided with the extension *b*, so as to support it upon the top of the tooth, substantially as set forth.

2. The anvil *e*, having the flat inclined surface 3 and the rounding surface 2, substantially as specified.

3. The frame *a*, having the extension *b*, in combination with the set-screw 5 and anvil *e*, substantially as described.

In testimony that I claim the foregoing, I have hereunto set my hand this 25th day of December, 1873.

ECKFORD BUELL.

Witnesses:
D. W. JONES,
J. C. AULD.