(No Model.)

J. F. PRIBNOW.

DEVICE FOR SHAPING SWAGED SAW TEETH.

No. 463,547. Patented Nov. 17, 1891.

Fig. 1.

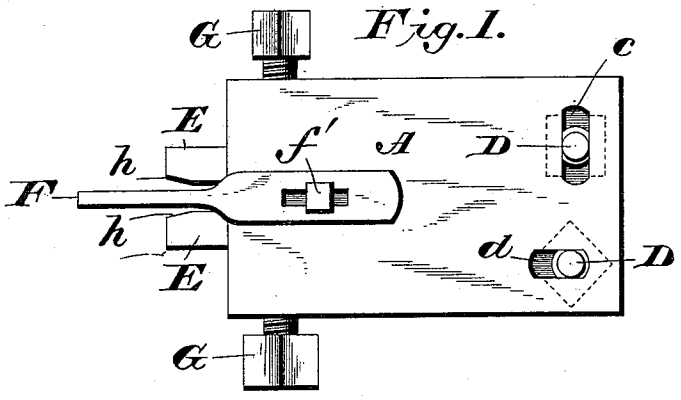


Fig. 2.

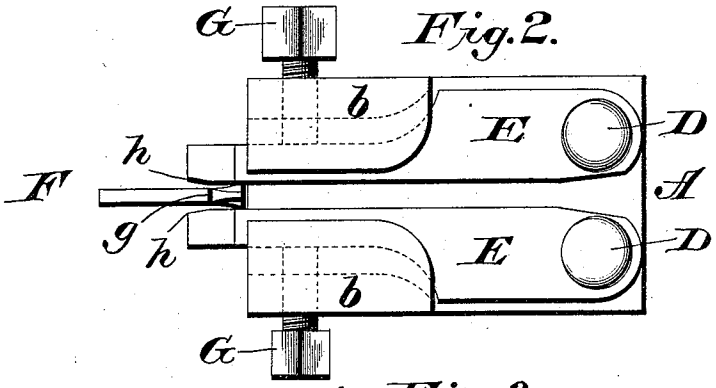


Fig. 3.

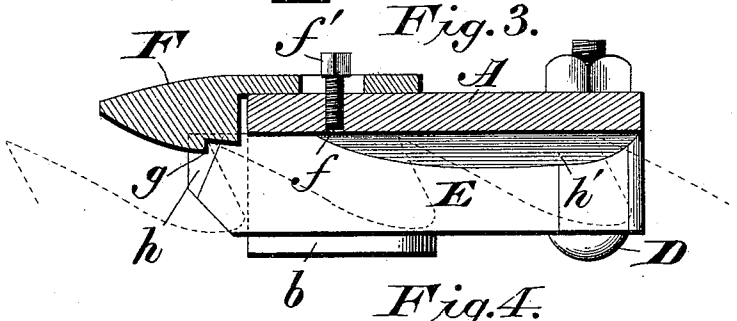
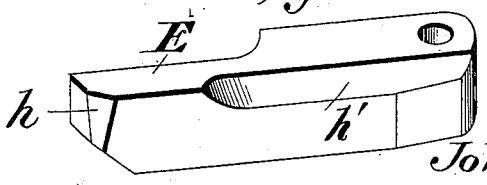


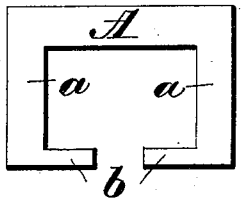
Fig. 4.



Inventor
John F. Pribnow.

Witnesses
L. S. Elliott
E. W. Johnson

Fig. 5.



by
Attorney

UNITED STATES PATENT OFFICE.

JOHN FREDRICK PRIBNOW, OF INTERIOR, MICHIGAN.

DEVICE FOR SHAPING SWAGED SAW-TEETH.

SPECIFICATION forming part of Letters Patent No. 463,547, dated November 17, 1891.

Application filed April 16, 1891. Serial No. 389,204. (No model.)

To all whom it may concern:

Be it known that I, JOHN FREDRICK PRIBNOW, a citizen of the United States of America, residing at Interior, in the county of Ontonagon and State of Michigan, have invented certain new and useful Improvements in Clamping Devices for Shaping 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in clamps for shaping and strengthening saw-teeth after they have been swaged; and it consists in the construction and combination of the parts, as will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a plan view of a clamp constructed in accordance with my invention. Fig. 2 is an inverted plan view of the same. Fig. 3 is a sectional view. Fig. 4 is a detail perspective view of one of the pivoted jaws detached. Fig. 5 is an end view with the clamping-jaws removed.

A refers to the bed-plate or frame, which has formed integral therewith side pieces *a a*, having inwardly-projecting portions *b*, which lie under the pivoted jaws. In the bed-plate or top are formed apertures or slots *c* and *d*, which are at right angles with each other and are adapted to receive the threaded ends of the pivot-bolts D D, which hold the jaws E E to the bed-plate. The bed-plate is also provided with a screw-threaded aperture *f*, into which passes a headed bolt *f'* for adjustably connecting thereto a gage F, which has a step *g* formed therein, in which the swaged end of the tooth will rest when the device is in use. The gage F is adjustable, it being provided with a longitudinal slot, as shown.

In the vertical side pieces *a a* are threaded apertures into which passes bolts G, having square ends, so that they can be turned by a suitable implement, the inner ends bearing against the outer sides of the jaws E E, while said jaws rest upon the inwardly-projecting portions *b* of the frame. The ends of the jaws are cut away or beveled at *h*, so that they will not contact with the swaged portions of the teeth, and their sides are also cut away or beveled, as shown at *h'*.

In swaging saw-teeth they are liable to be bent or staggered, and after said teeth have been swaged they can be clamped in the device, hereinbefore described, to straighten said teeth and bring them on a line with each other. The pivot-bolts D D can be adjusted to give the desired width between the jaws, and one of said jaws is adjustable longitudinally to provide for equal projections on both sides of the saw-teeth. The under side of the bed-plate serves as a guide against which the teeth bear.

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

1. In a clamping device for shaping and straightening saw-teeth after having been swaged, consisting of a base having vertical sides and inwardly-projecting portions, jaws E E, pivoted to the frame and provided with adjustable pivots for the jaws, clamping-bolts G G, and a gage F, secured to the frame, said gage having a notch *g*, against which the points of the teeth are adapted to abut, substantially as set forth.

2. In combination with a bed-plate A, having a transverse slot *c* and a longitudinal slot *d*, pivoted bolts D, adjustably secured in said slots, jaws E E, mounted on the bolts, clamping-bolts G G, adapted to abut against the jaws, said jaws having beveled portions, substantially as set forth.

3. In a clamp for the purpose set forth, a bed-plate A, having depending sides *a* and inwardly-projecting portions *b b*, clamps or pressure-bolts adapted to abut against pivoted jaws E E, carried by the frame, together with an adjustable gage F, also secured to said frame, the jaws having beveled portions *h* and *h'*, the parts being constructed substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN FREDRICK PRIBNOW.

Witnesses:

GEORGE R. FRASER,

J. M. PEARSON.