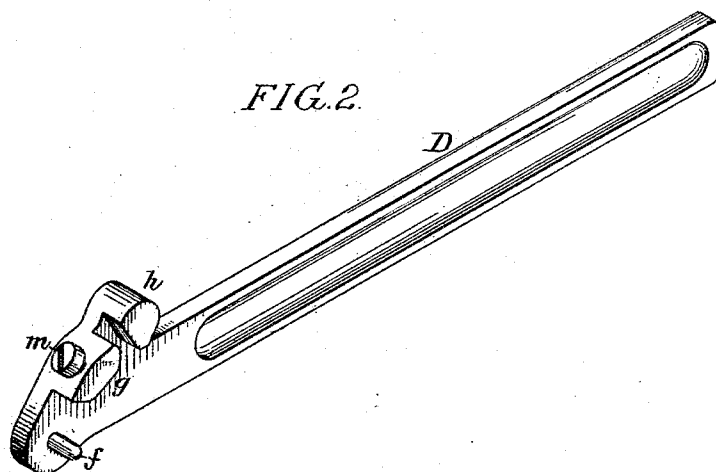
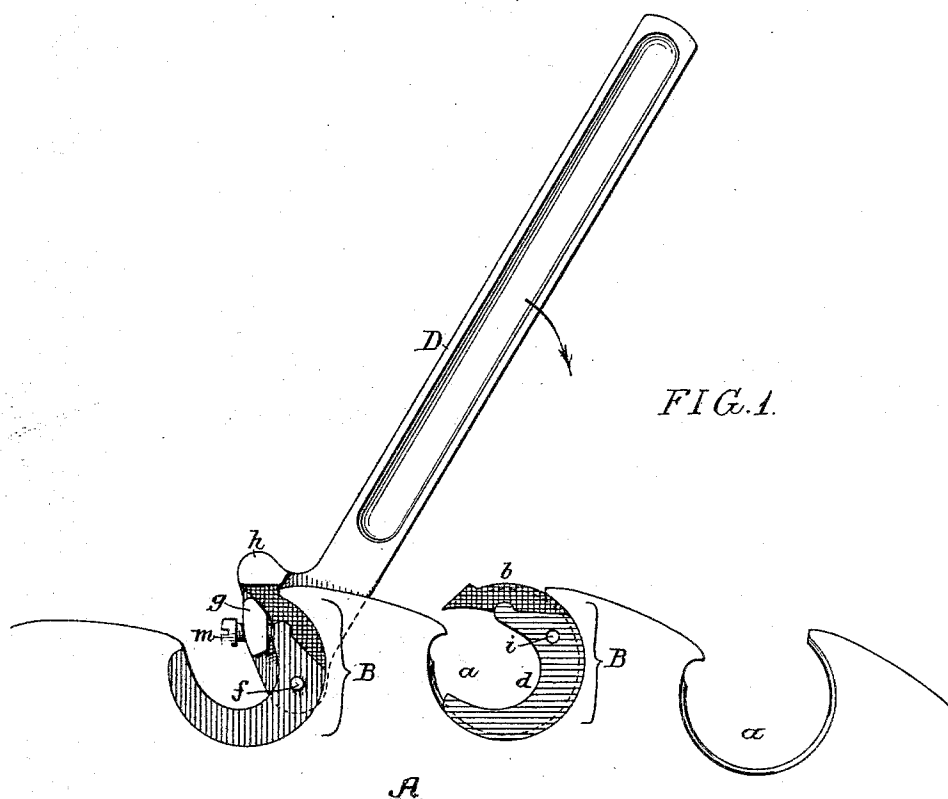


(No Model.)

T. S. DISSTON.  
DEVICE FOR INSERTING SAW TEETH.

No. 412,024.

Patented Oct. 1, 1889.



Witnesses:  
Hamilton A. Turner.  
Alex. Barkoff

Inventor:  
Thomas S. Disston  
by his Attorneys  
Howson & Howson

# UNITED STATES PATENT OFFICE.

THOMAS S. DISSTON, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO  
HENRY DISSTON & SONS, INCORPORATED, OF SAME PLACE.

## DEVICE FOR INSERTING SAW-TEETH.

SPECIFICATION forming part of Letters Patent No. 412,024, dated October 1, 1889.

Application filed August 2, 1889. Serial No. 319,538. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS S. DISSTON, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Wrenches for Inserting Saw-Teeth, of which the following is a specification.

The object of my invention is to provide a simple and convenient form of wrench whereby saw-teeth may be readily driven into and firmly seated in the segmental openings formed for their reception around the periphery or at the edge of the saw-blade, and this object I attain in the manner hereinafter set forth, reference being had to the accompanying drawings, in which—

Figure 1 is a side view of part of a saw-blade constructed for the reception of inserted teeth, and illustrating the manner of using my improved wrench for inserting said teeth; and Fig. 2 is a perspective view of the wrench.

In Fig. 1, A represents part of the blade of a circular saw, having around its periphery segmental openings *a* for the reception of the teeth B, each of the latter consisting, in the present instance, of a cutting-bit *b* and a segmental holder *d* therefor, the segmental back of the bit and holder having a groove of V or equivalent shape for the reception of a rib of like shape formed around the segmental opening *a* in the usual manner. Difficulty has been experienced in inserting these teeth with the means at present in use, and the object of my invention is to provide a wrench whereby this difficulty may be overcome.

The wrench in the preferred form consists of an arm D, having at one end a pin *f* and two lugs *g* and *h*, the pin *f* being adapted to an opening *i* in the holder *d*, and the lugs *g* and *h* bearing, respectively, upon the front and upon the top of the bit *b* of the tooth when the pin *f* is so inserted in the opening. The tooth is thus rigidly confined to the lever, and movement of the latter in the di-

rection of the arrow, Fig. 1, must result in driving the tooth forcibly into the opening in the blade and in seating it firmly in in said opening, the lug *h* serving to impart pressure to the extreme top of the tooth and thus aiding very materially in the proper insertion of the same and rendering unnecessary any pounding or hammering upon the point of the bit, such as is sometimes resorted to in order to effect the proper seating of the tooth in the recess.

The lug *g* of the wrench is preferably provided with a set-screw *m* to bear upon the front of the tooth and compensate for wear; but this is not absolutely essential.

It will be evident that the wrench can be used for inserting teeth made in one piece, as well as teeth comprising a bit and holder, as shown.

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

1. The within-described wrench for inserting saw-teeth, said wrench consisting of an arm or lever having a pin or projection for engagement with an opening in the tooth, a lug for bearing upon the top of the tooth, and a second lug for bearing upon the front of the tooth, substantially as specified.

2. The within-described wrench for inserting saw-teeth, said wrench consisting of an arm or lever having a pin or projection for engagement with an opening in the tooth, a lug for bearing upon the top of the tooth, and a second lug for bearing upon the front of the tooth, the latter lug being provided with an adjustable set-screw, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS S. DISSTON.

Witnesses:

WILLIAM D. CONNER,  
HARRY SMITH.