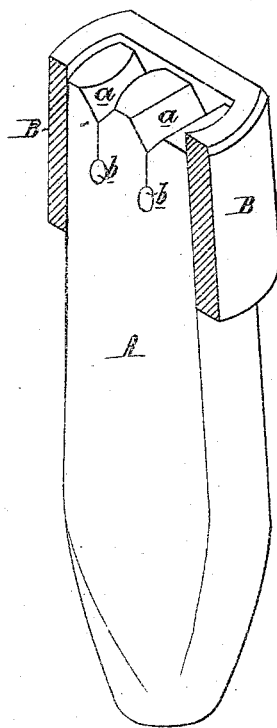


J. CONNOR.

Saw-Tooth Swages.

No. 130,484.

Patented Aug. 13, 1872.



Witnesses.

Harry Smith
John R. Perkins
[Signature]

John Connor
by his Attor.
Hewson and Son

UNITED STATES PATENT OFFICE.

JOHN CONNOR, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN SAW-TOOTH SWAGES.

Specification forming part of Letters Patent No. **130,484**, dated August 13, 1872.

Specification describing an Improved Saw-Tooth Swage, invented by JOHN CONNOR, of Philadelphia, Pennsylvania.

Improvement in Saw-Tooth Swage.

The object of my invention is a saw-tooth swage of a more economical and durable character than those of the class to which my invention appertains. My improved swage consists of but two parts; namely, the block A, of steel, and the band or ferrule B, one side of the latter being removed in the perspective view illustrated in the accompanying drawing for the better demonstration of my invention.

The block A is of proper shape and dimensions for being grasped by one hand of the operator, and is suitably rounded at the outer end for receiving the blows of the hammer in the other hand of the operator. In the present instance two angular notches, *a a*, are formed in the swaging end of the instrument, and two holes, *b b*, are drilled transversely through the block, the metal intervening between the bottom of each notch, and the adjacent hole being severed with a fine saw. The slots thus formed, however, are tightly closed on driving the tapering ferrule B onto the tapering end of the block, and thus a sharp, well-defined corner is always presented

where the two sides of each notch meet, for acting on the extreme cutting-edge of a saw-tooth, the perfection of the swage depending upon the perfection of the bottom of each notch.

In saw-tooth swages of this class detachable pieces are usually fitted to the swaging end for the formation of the notch. I not only save expense by dispensing with these pieces, which demand accurate fitting, but, by making the block A of one solid piece, in the manner described, increased solidity and durability are imparted to the instrument.

It will be observed that one of the notches has slightly rounded sides, which have the effect of spreading the cutting-edges of a saw-tooth, the other notch having straight sides for imparting the proper straight edge to the tooth after the latter has been spread.

I claim as my invention—

A saw-tooth swage composed of a block, A, notched, drilled, and slotted, and combined with a tapering ferrule, B, all as set forth.

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

JOHN CONNOR.

Witnesses:

WM. A. STEEL,
JOHN K. RUPERTUS.