M. J. RAHILLY.

Device for Swaging and Setting Saw-Teeth.

No. 163,252. Patented May 11, 1875.

Fig. 1.

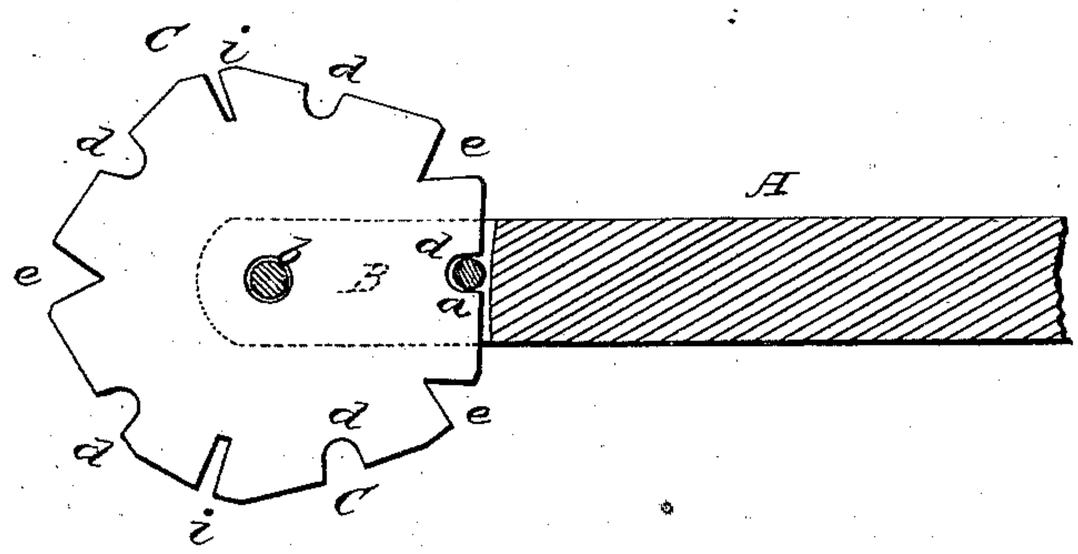
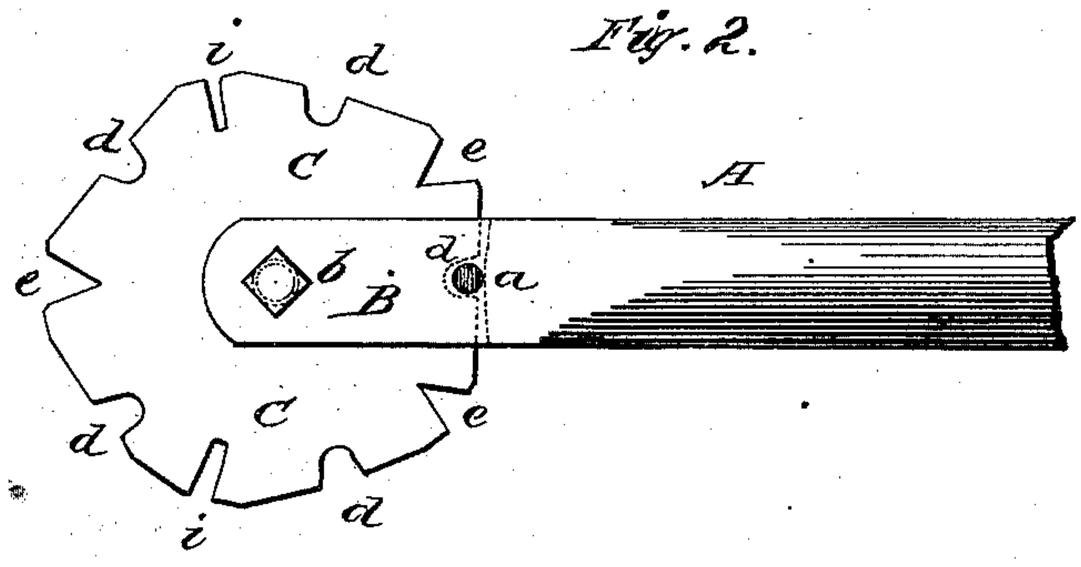


Fig. 2.



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MAURICE J. RAHILLY, OF BEAVER FALLS, PENNSYLVANIA.

IMPROVEMENT IN DEVICES FOR SWAGING AND SETTING SAW-TEETH.

Specification forming part of Letters Patent No. **163,252**, dated May 11, 1875; application filed March 3, 1875.

To all whom it may concern:

Be it known that I, MAURICE J. RAHILLY, of Beaver Falls, in the county of Beaver and State of Pennsylvania, have invented certain new and useful Improvements in Combined Saw-Swage and Saw-Set; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains 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.

The nature of my invention consists in the construction and arrangement of a combined saw swage or upset and saw-set, as will be hereinafter more fully set forth.

In the annexed drawing, Figure 1 is a section, and Fig. 2 is a side elevation, of a device embodying my invention.

A represents the handle of my device, made of any suitable dimensions, and having two parallel jaws or arms, B B, formed at its outer end. At the base, between these jaws, is formed or inserted a pin or rib, *a*, running in the center from jaw to jaw. Between these jaws is inserted a polygonal-shaped wheel, C, which is fastened by a pin, *b*, passing through the jaws and the center of the wheel. The wheel C may be of any number of sides, but the number must be uneven, so as to bring each angle diametrically opposite the center of a side. In the center of each side of the wheel is made a groove, *d*, corresponding in shape with the rib *a*, and the parts are of such relative proportions that the wheel can never be fastened in the jaws by the pin *b* unless one side is flat down at the base of the jaws over the rib, so that when the pin *b* is inserted the wheel will be held securely and firmly in position. In two or more of the angles of the wheel C are made V-shaped grooves *e e*, of different angles, by which the saw may be swaged or upset more or less, as desired, according to the angle of the notch. In the remaining angles of the wheel are made radial slots *i i*, of different widths, to set the saw, whatever its thickness.

The operation of the device is as follows: As a saw-swage, the wheel C is set to bring the desired notch *e* on a line with the center of the handle. This notch is then applied to the saw, and with a hammer a blow is given on the end of the handle. As a saw-set, the wheel is set so as to bring the desired slot *i* on a line with the center of the handle, the device applied to the saw-tooth, and with the handle as a lever the tooth is set as desired.

This device is cheap to manufacture, durable, certain in its operation, and not liable to get out of order, owing to its great simplicity.

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

1. The polygonal-shaped wheel C, provided with two or more V-shaped notches, *e*, of different angles, and two or more V-shaped slots, *i*, of different width, and held in a handle, A, for the purposes herein set forth.

2. The combination of the handle A with jaws B B and rib *a*, the polygonal-shaped wheel C, having grooved sides, and provided with notches *e* and slots *i*, and the pin *b*, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

MAURICE J. RAHILLY.

Witnesses:
WM. LANNING,
ROBERT MCGAHEY.