(No Model.)

A. GEIGER.

PIN TURNING TOOL.

No. 262,218. Patented Aug. 8, 1882.

FIG. 1.

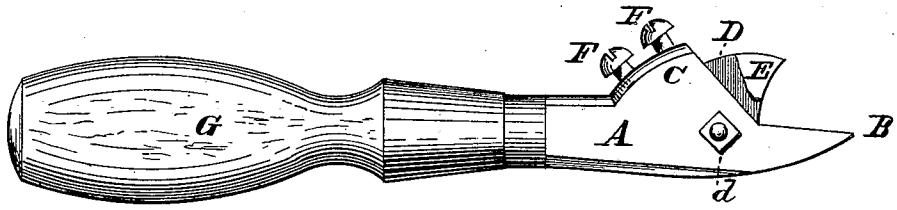


FIG. 2.

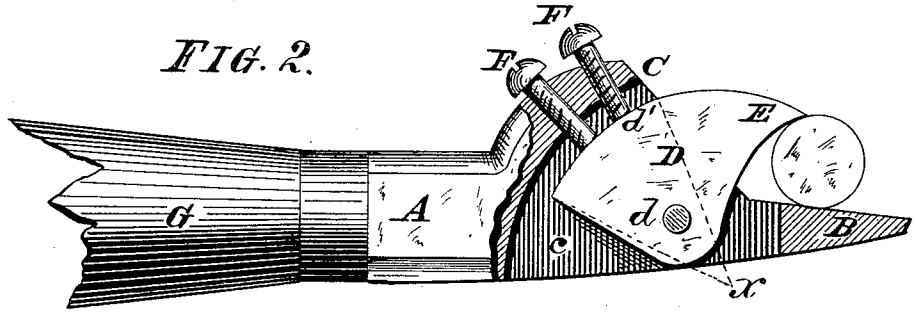
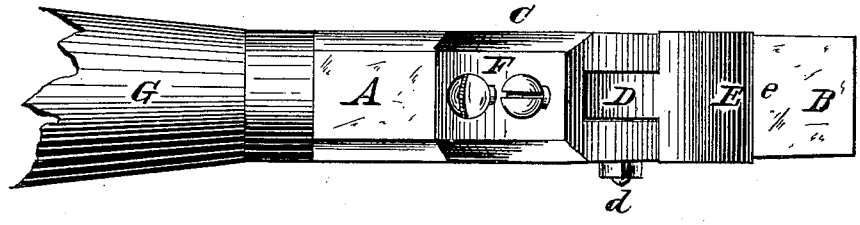


FIG. 3



Witnesses:

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UNITED STATES PATENT OFFICE.

ANTON GEIGER, OF BUFFALO, NEW YORK.

PIN-TURNING TOOL.

SPECIFICATION forming part of Letters Patent No. 262,218, dated August 8, 1882.

Application filed December 28, 1881. (No model.)

To all whom it may concern:

Be it known that I, ANTON GEIGER, of Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements on a Pin-Turning Tool; and I do hereby declare that the following description of my said invention, taken in connection with the accompanying sheet of drawings, forms a full, clear, and exact specification, which will enable others skilled in the art to which it appertains to make and use the same.

This invention has general reference to pin-turning tools; and it consists essentially in the peculiar combination of parts and details of construction, as hereinafter first fully set forth and described, and then pointed out in the claims.

In the drawings already referred to, which serve to illustrate my said invention more fully, Figure 1 is a side elevation of my improved pin-turning tool. Fig. 2 is a longitudinal sectional elevation, and Fig. 3 a plan of the same.

Like parts are designated by corresponding letters of reference in all the figures.

The object of my present invention is the production of a cheap and convenient pin-turning tool for wood, metal, &c., turners.

To attain this end I construct a hand turning-tool of a metallic stock, A, having on its forward end a tongue, B, and on its upper side a projection, C. This projection, as well as part of the stock A and tongue B, is slotted at *c* to receive a cutter, the shank D of which consists of a segment having on its forward end a head, E, the cutting-edge *e* of which is capable of being elevated or depressed with reference to the tongue B by revolving said segment around its pivot *d*.

In the projection C are two set-screws, F, whereby the segment D is locked in position, as hereinafter to be referred to.

The stock A is fitted with a convenient handle, G, as plainly shown in the figures.

In operation the cutter-head E is adjusted to the proper position with reference to the pin to be turned by unscrewing the set-screws F and revolving the segment D around its pivot *d* until by actual trial it is found to reduce said pin to proper size, after which the set-screws are firmly screwed up. If, now, the tongue B is placed underneath the article on which a pin is to be produced and the tool pressed onto said article, the cutter E will begin to cut and remove so much of said article as is necessary to bring the pin to the correct diameter—an operation which can be repeated for any number of times, and pins of always the exact diameter produced.

It will be observed that the perimeter *d'* is not concentric with the pin *d*, but has its center in the point *x*, Fig. 2, located some distance from the center of said pin *d*. The curve of the perimeter *d'* of said segment is therefore flatter than one described from the center of the pin *d*, whereby the set-screws F lock the segment in position, which could not so readily be accomplished if the periphery of said segment were described from the center of said pin *d*.

It is perfectly obvious that this tool can be applied for turning any substance or material—such as wood, metal, ivory, &c.—and that by suitably constructing the handle G said tool may be readily adapted for use in connection with a slide-rest, &c.

Having thus fully described my invention, I claim as new and desire to secure to me by Letters Patent of the United States—

1. In a hand turning-tool adapted for turning pins, the combination, with a slotted body, of a cutter having a cutting-edge in a plane parallel with that of the tongue of said body, said cutter being pivoted within the slotted body and adjustably retained in position by set-screws acting upon the curved tail portion of said cutter, substantially in the manner as and for the object specified.

2. As an improved article of manufacture, a hand turning-tool adapted for turning pins, consisting essentially of a slotted body having a handle on one end and a tongue on its other end, said slotted body being provided with a cutter having an enlarged head provided with a cutting-edge in a plane parallel to that of the said tongue, said cutter being pivoted within the slotted body and adjustably retained in position by set-screws, the whole being constructed for operation substantially in the manner as and for the object specified.

In testimony that I claim the foregoing as my invention I have hereto set my hand in the presence of two subscribing witnesses.

ANTON GEIGER.

Witnesses:

MICHAEL J. STARK,

WM. HEISER.