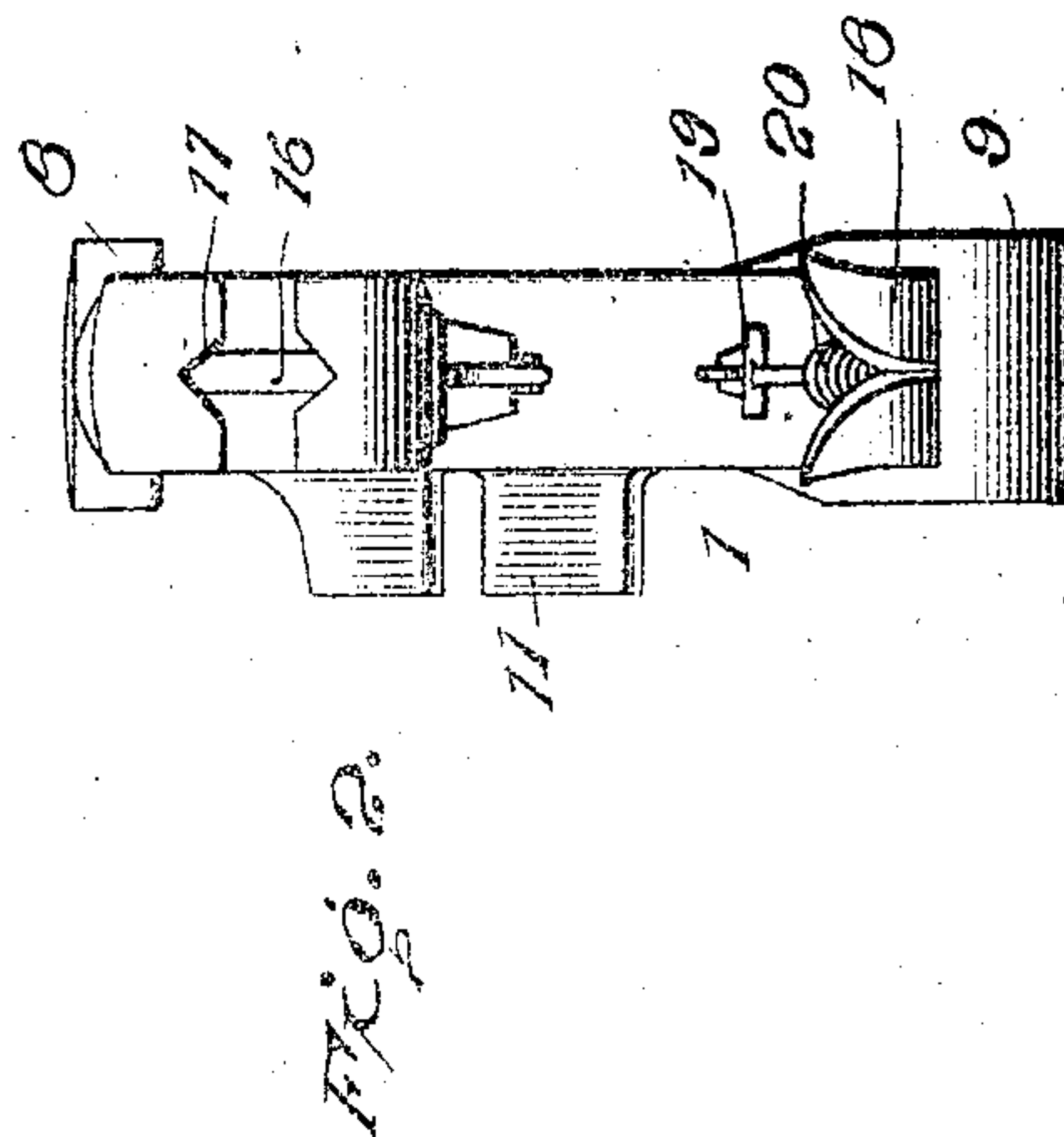
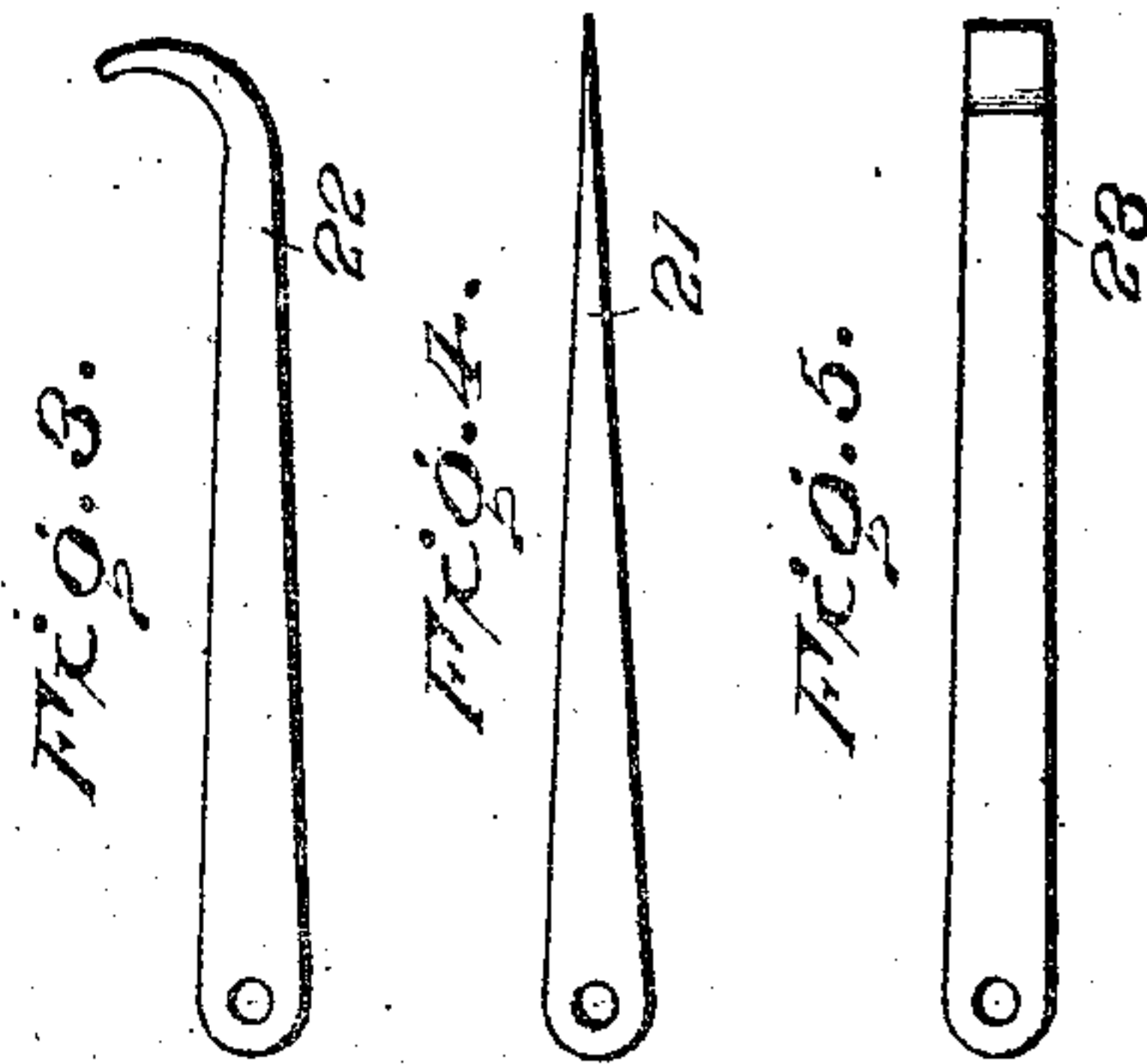
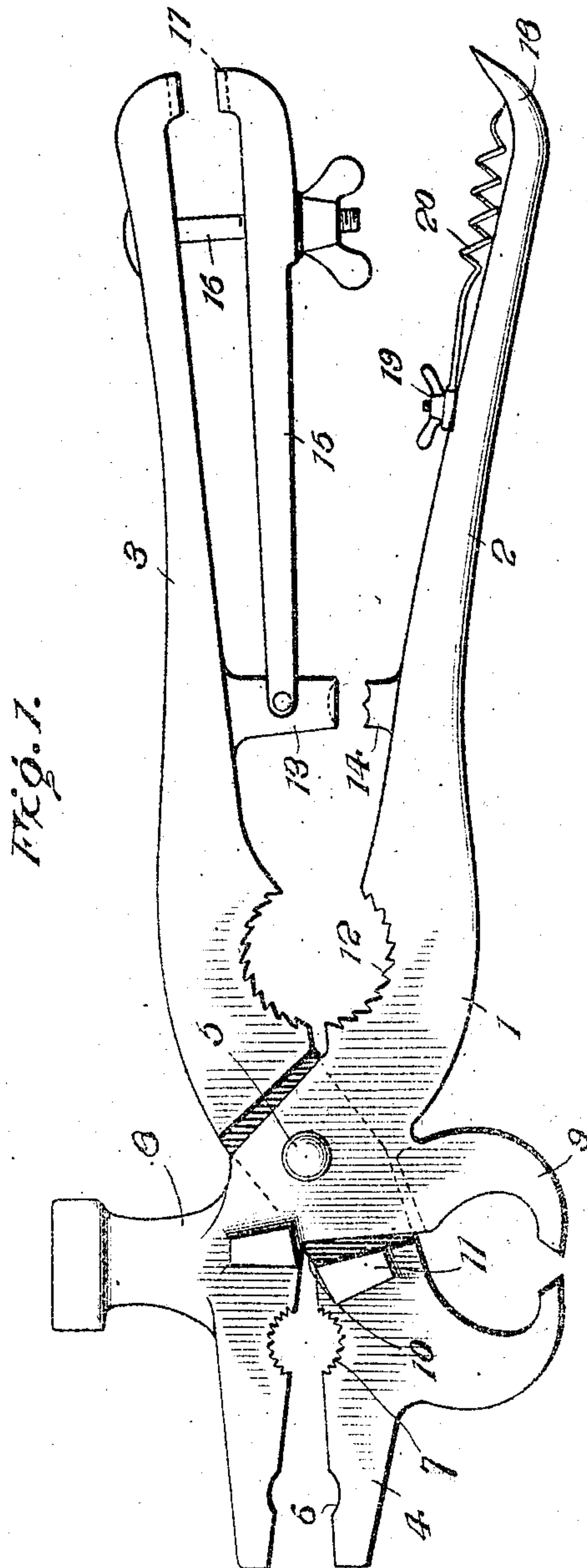


No. 876,963.

PATENTED JAN. 21, 1908.

H. D. HOAK.  
COMBINATION TOOL.  
APPLICATION FILED APR. 30, 1907.



Inventor  
H. D. Hoak,

Witnesses

*[Signature]*  
*[Signature]*

By *[Signature]*  
Attorneys



# UNITED STATES PATENT OFFICE.

HOBART D. HOAK, OF GRASS VALLEY, CALIFORNIA.

## COMBINATION-TOOL.

No. 876,963.

Specification of Letters Patent.

Patented Jan. 21, 1908.

Application filed April 30, 1907. Serial No. 371,086.

*To all whom it may concern:*

Be it known that I, HOBART D. HOAK, citizen of the United States, residing at Grass Valley, in the county of Nevada and State of California, have invented certain new and useful Improvements in Combination-Tools, of which the following is a specification.

This invention contemplates certain new and useful improvements in combination tools and the invention has for its object an improved construction of pivotally connected members that will serve for a large number of diversified purposes, the invention consisting of certain constructions, arrangements and combinations of the parts which I shall hereinafter fully describe and then point out the novel features in the appended claims.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a side elevation of my improved combination tool; Fig. 2 is an end elevation thereof; and, Figs. 3, 4 and 5 are detail views of the different implements that are included in the invention.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

My improved combination tool comprises two pivotally connected members 1 that provide handles 2 and 3 and jaws 4. 5 designates a pivot point of the two members, said members crossing at the pivot point so that the jaws 4 will close when the handles 2 and 3 are pressed together.

The jaws 4 are formed near their front ends with sockets or recesses 6 designed to be used for holding a ring when inserting the same in the snout of a hog. Between the recesses 6 and the pivot 5, the jaws 4 are formed with toothed recesses or sockets 7 designed to serve the purposes of an alligator-wrench, and one of said members 1 is formed with a headed protuberance 8 designed to constitute a hammer. Both of said members 1 are formed with hooked jaws 9 which are offset from the main jaws 4 and

which are adapted to form nippers. The two jaws are formed near the pivot with shear edges 10 which may be used as a center wire cutter, and they are also formed with side lugs 11 constituting a side wire cutter, in an obvious manner.

Back of the pivot point 5, the members 1 are formed in their handle portions with toothed recesses 12, the teeth of one recess pointing rearwardly, so as to form a pipe wrench. The handle member 3 is provided with a preferably integral lug 13 which extends towards the other handle member 2, and the latter is formed with a complementary lug 14, the said lugs 13 and 14 providing a riveter for leather and the like.

To the lug 13 a vise jaw 15 is pivotally connected at one end, and a clamping bolt 16 extends through said jaw and through the handle member 3 and is provided with a winged nut adapted to draw the vise jaw 15 against the handle member 3 which constitutes, with the member 15, a vise. The ends of the handle member 3 and the vise jaw 15 are preferably offset towards each other, and one or both of them are formed with a socket 17 designed to hold any desired number of detachable tools.

The handle member 2 is formed at its rear end with a claw 18 for the purpose of pulling nails and the like. The said handle member 2 is also formed with a lug or protuberance 19 adapted for the reception of a corkscrew, an awl and reamer 21, a hook 22 for cleaning horses' hoofs, and a screw driver 23, any one of these implements being secured on said protuberance or lug 19 by means of a winged nut, as shown.

From the foregoing description in connection with the accompanying drawings, it will be seen that I have provided a very simple, durable and efficient construction of combination tool, which may be cheaply manufactured and which embodies in the one implement a number of implements for widely diversified use.

Having thus described the invention, what is claimed as new is:

The herein-described tool consisting of pivotally connected members formed with handles at one side of the pivot, one of said handles being formed with a lug and the other

with a complementary lug adapted to form a riveter with the first named lug, and a vise jaw pivotally connected to one of said lugs and adapted to form a vise with one of said  
5 handles, whereby one of said lugs will perform the double function of a riveter member and a support for the pivoted vise jaw.

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

HOBART D. HOAK. [L. s.]

Witnesses:

H. M. BLACK,

A. D. FOOTE.