

1,032,855.

A. M. OSTBY.
COMBINATION TOOL.
APPLICATION FILED OCT. 13, 1909.

Patented July 16, 1912.
2 SHEETS—SHEET 1.

Fig. 3.

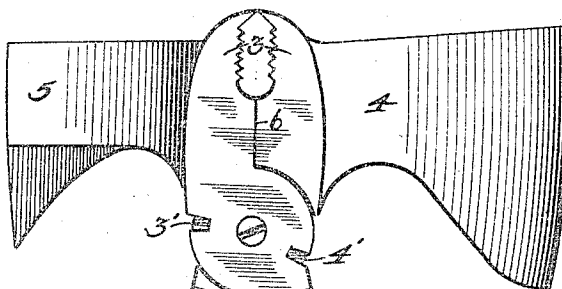
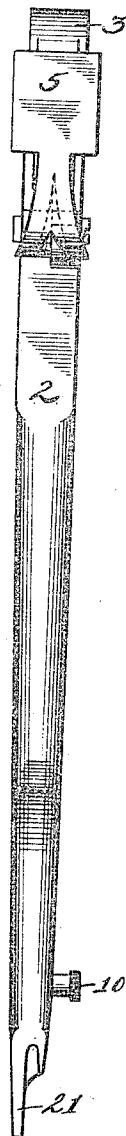


Fig. 1.

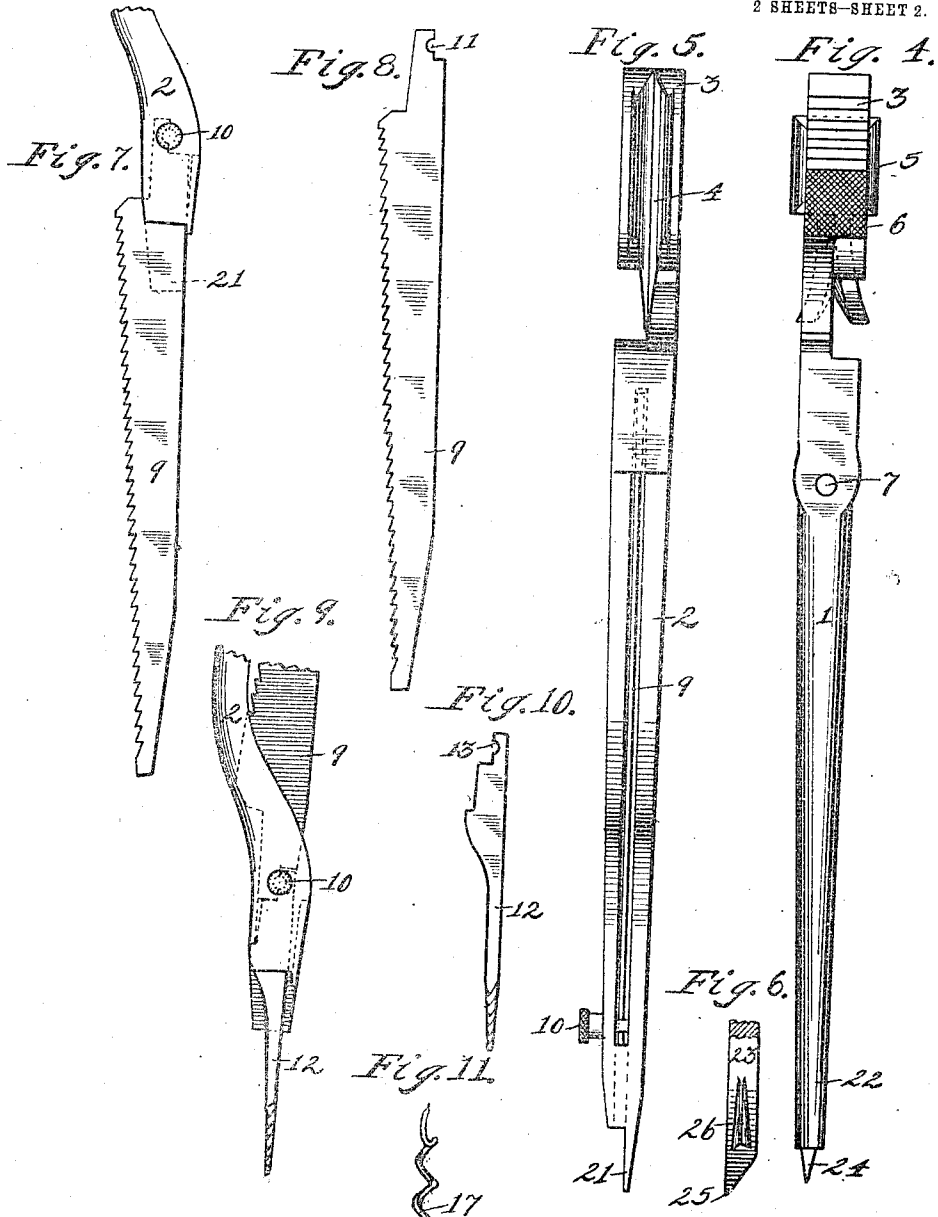
Witnesses:
C. E. Wessels.
B. G. Richards

Inventor:
Andrew M. Ostby,
By Joshua H. Hark
his Attorney

1,032,855.

Patented July 16, 1912.

2 SHEETS-SHEET 2.



Witnesses:

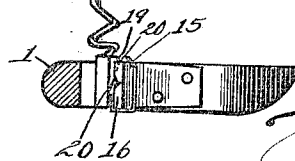
C. C. Wessels.

B. J. Richards

Inventor:

Andrew M. Ostby,

By Joshua N. Felt
his Attorney.



UNITED STATES PATENT OFFICE.

ANDREW M. OSTBY, OF CHICAGO, ILLINOIS.

COMBINATION-TOOL.

1,032,855.

Specification of Letters Patent.

Patented July 16, 1912.

Application filed October 13, 1909. Serial No. 522,400.

To all whom it may concern:

Be it known that I, ANDREW M. OSTBY, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Combination-Tools, of which the following is a specification.

My invention relates to improvements in combination tools and has for its object the production of a combination tool of improved construction and operation.

My invention consists in the combination and arrangement of parts hereinafter described and claimed.

My invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a side elevation of a tool embodying my invention, Fig. 2, a top plan view of Fig. 1, Fig. 3, a side elevation of Fig. 1, Fig. 4, a side elevation of one of the tool members, Fig. 5, a side elevation of the other tool member, Fig. 6, a side elevation of one of the members of the bottle opener embodied in the tool, Fig. 7, a side elevation of the saw shown in operative position, Fig. 8, a side elevation of the saw detached from its handle, Fig. 9, a side elevation of the gimlet in operative position, Fig. 10, a side elevation of the gimlet removed from its handle, and Fig. 11, a side elevation of the cork screw in operative position.

The preferred form of construction as illustrated in the drawings comprises pivoted members 1 and 2 pivoted together in pincer form and provided with pincer jaws 3 equipped with engaging teeth so as to constitute a pipe wrench. The pincer jaw on member 2 carries an outwardly extending hatchet head 4 while the pincer jaw on tong 1 carries an oppositely disposed hammer head 5. Different sized wire nippers 3' and 4' are provided in members 1 and 2 adjacent their pivotal point. Pincer jaws 3 are provided with scored meeting faces 6 adapted to constitute ordinary pincer faces. A punch 7 is secured on member 1 and is adapted to cooperate with an oppositely disposed punch block 8 on member 2. A saw blade 9 is adapted to rest in a suitable recess in member 2 where it is secured in position by means of set screw 10 engaging a notch 11 at the inner end thereof. A gimlet 12 is adapted to rest in a recess in lug 14 and is also held by a spring 15 secured

to another spring 16 on member 1. Gimlet 12 is provided with an inner end corresponding to the inner end of saw blade 9 and is provided with a notch 13 in its inner end which is adapted to enter a suitable recess in the end of member 2 and engage said set screw 10 while saw blade 9 is in its operative position as indicated in Fig. 9. The inner end of saw blade 9 is also adapted to enter the same recess and be secured in position by set screw 10 as indicated in Fig. 7. Cork screw 17 is secured to a pivoted block 18 which is provided with a V-shaped projection 19 adapted to enter V-shaped grooves 20 located at right angles to each other in spring member 16 and adapted to hold said cork screw in either its folded or operative position. The outer end of member 2 is provided with a screw driver blade 21. At its lower end member 1 is divided as shown into branches 22 and 23, the lower end of branch 22 being provided with a conical point 24 and the lower end of branch 23 with an edge 25, the said point and edge being adapted to constitute a can opener. The inner side of branch 23 is provided with a V-shaped projection 26 adapted to cooperate with branch 22 to serve as a bottle opener for removing metallic sealing caps from bottles.

It will be observed that the above described tool will serve a multitude of purposes and will be found exceedingly convenient as a house-hold article.

While I have illustrated and described the preferred form of construction for carrying my invention into effect this may be varied or modified without departing from the spirit of the invention. I, therefore, do not wish to be limited to the exact details of construction set forth but desire to avail myself of such variations and modifications as come within the scope of the appended claim.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

In a combination tool, a handle having a socket open at both ends, in combination with a pair of tools each provided with a shank adapted to be inserted in said socket from the opposite ends and together filling the same, the ends of said shanks being reduced to one half their width forming shoulders against which the end of the opposite shank abuts and provided with semi-

circular recesses midway the length of the inner edge of the reduced portion and a locking member adapted to extend through the walls of said socket and be projected
5 through said recesses, whereby said tools are removably and interchangeably secured to the handle, substantially as described.

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

ANDREW M. OSTBY.

Witnesses:

HELEN F. LILLIS,

JOSHUA R. H. POTTS.