Aug. 21, 1928. 1,681,749

A. SMITH

COMBINATION TOOL

Filed Oct. 16, 1925

Fig. 1.

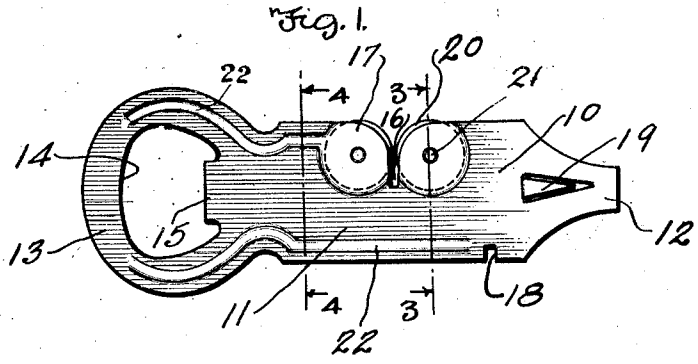
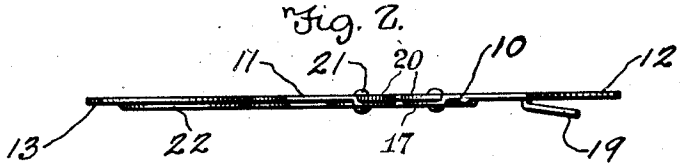



Fig. 2.



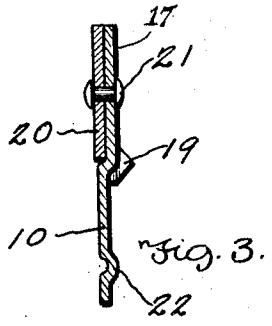




Fig. 3.

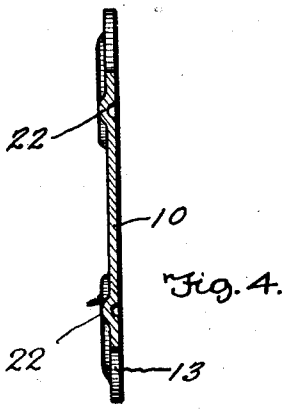



Fig. 4.

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Patented Aug. 21, 1928. 1,681,749

# UNITED STATES PATENT OFFICE.

ARTHUR SMITH, OF CHICAGO, ILLINOIS, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO THE BARRETT BINDERY COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

## COMBINATION TOOL.

Application filed October 16, 1925. Serial No. 62,843.

This invention relates to improvements in combination tools, and has for its primary object to provide a tool of this character embodying means for accomplishing various household tasks.

A further object of the invention is the provision of a compact tool of this class having means for effectually and quickly sharpening knives.

Another object of the invention is the provision of a combination tool having means for conveniently removing milk-bottle caps, extracting nails, and the like.

A still further object of the invention is the provision of a tool of the above character of simple and durable construction designed so as to be sold at a reasonable price.

Other objects and advantages of this invention will become apparent as the description progresses.

In the accompanying drawing forming a part of this specification and in which like numerals are employed to designate corresponding parts throughout the same:

Fig. 1 is a top plan view of a tool constructed in accordance with my invention,

Fig. 2 is a side elevation of the same,

Fig. 3 is an enlarged transverse sectional view taken on the line 3—3 of Fig. 1 looking in the direction indicated by the arrows, and

Fig. 4 is a similar view taken on the line 4—4 of Fig. 1 looking in the direction indicated by the arrows.

In the drawing, wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 10 generally indicates the body of my improved tool, comprising an intermediate portion 11 of generally rectangular formation. The forward extremity of the portion 11 terminates in a tapered projection 12, the end thereof being beveled to provide a suitable screw-engaging bit. The opposite extremity of the intermediate portion 11 connects with an enlarged circular projection 13, provided at its center with a comparatively large opening 14 provided at one edge with an outwardly directed tongue 15.

As is readily seen from Fig. 1 of the drawing, the intermediate portion 11 is provided with a transversely directed slot 16 extending from one of the longitudinal edges and having the corner portions rounded. The body of the tool is preferably of thin metal, the portions adjacent the slot 16 being slightly raised to form circular pockets 17, the purpose of which will become apparent as the description progresses.

The body is further provided adjacent one end of the intermediate portion 11 with a rectangular-shaped slot 18 extending a short distance into the body so as to provide suitable means for engaging tacks and the like for the removal of the same. The intermediate portion of the tapered projection 12 is struck out to provide a triangular-shaped pointed prong 19 offset from the body of the tool and preferably inclined at an angular position so as to be readily engageable with the caps of milk bottles and similar containers.

Rotatably mounted in the circular offset pockets 17 are a pair of complementary disks 20 preferably constructed of suitable steel. These wheels are rotatably supported by transversely extending pins 21, the ends thereof being upset to prevent removal of the wheels and arranged so as to permit convenient rotation. These wheels are positioned in a common plane and with the adjacent sides of their peripheries substantially in contact so that a knife or similar implement may be drawn therebetween for efficiently sharpening the edge thereof.

As disclosed in the drawing, the tool body is provided with a pair of longitudinally extending raised ridges 22 adapted to increase the rigidity of the tool body and prevent distortion thereof. This construction provides a light yet durable tool designed to readily perform the functions of the individual elements, combined in a compact structure for the purpose of providing a convenient and efficient tool.

It is evident from the foregoing that each of the combined elements is designed to efficiently perform its function, the tongue 15 being adapted for removal of crimped bottle caps while the tapered projection 12 may be readily employed as a screw-driver. It is therefore obvious that a combination tool of exceedingly simple design and com-

pact structure has been provided, capable of use in performing various household tasks with facility and convenience.

It is to be understood that the invention herein shown and described is susceptible of modification, and that various changes as to the shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the appended claim.

Having thus described my invention, I claim:

In a device of the class described, a sheet-metal body member having a slot opening through one edge thereof, the said body member having offset portions defining pockets at the opposite sides of the slot, blade-sharpening disks mounted for free rotation within the said pockets and positioned in a common plane at opposite sides of the slot with the relatively adjacent sides of their peripheries substantially in contact, the pockets being of a depth substantially equal to the thickness of the disks whereby the outer faces of the disks will be substantially flush with the face of the body member in which the pockets are formed.

In testimony whereof I affix my signature.

ARTHUR SMITH.