No. 864,703. PATENTED AUG. 27, 1907.

S. J. SIBLEY.

COMBINATION TOOL.

APPLICATION FILED NOV. 2, 1906.

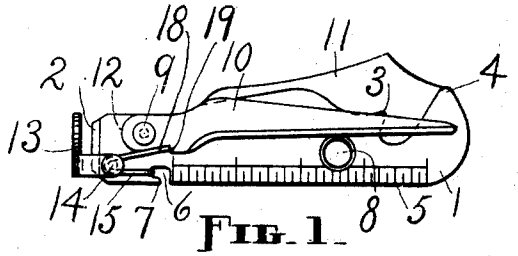


FIG. 1.

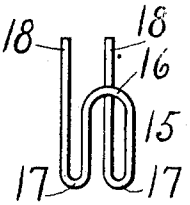


FIG. 2.

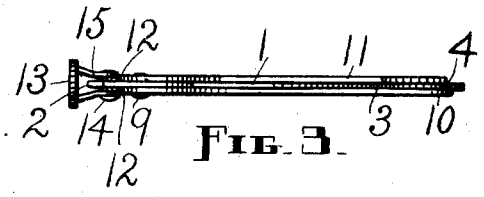


FIG. 3.

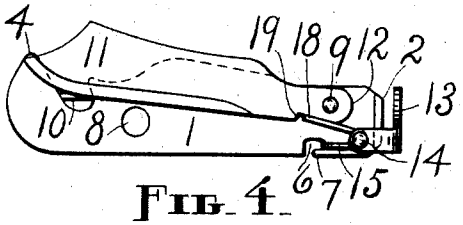


FIG. 4.

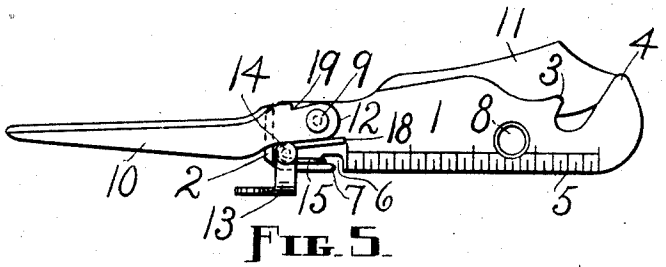


FIG. 5.

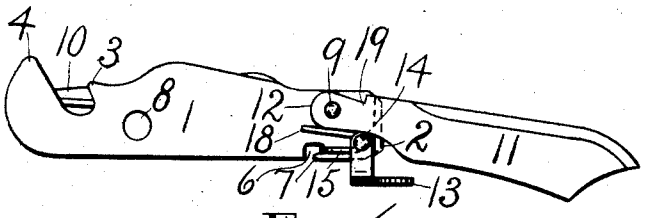


FIG. 6.

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COMBINATION-TOOL.

No. 864,703. Specification of Letters Patent. Patented Aug. 27, 1907.

Application filed November 2, 1906. Serial No. 341,754.

To all whom it may concern:

Be it known that I, STEPHEN J. SIBLEY, a citizen of the United States of America, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented a new and useful Combination-Tool, of which the following is a specification.

My invention relates to improvements in handy tools adapted to be carried in the pocket and capable of being put to a number of different uses, and comprises a handle of peculiar shape and construction, and a tobacco tamp and two spring-pressed blades pivoted to said handle, all as hereinafter set forth.

The object of my invention is to produce a light, compact, inexpensive and serviceable pocket combination tool, which is useful for a great variety of different purposes although consisting of but comparatively few parts.

A further object is to provide in a single tool the following named implements or devices: A tamp for pressing down the burning tobacco in the bowl of a pipe, a screw-driver, a combined paper-cutter and envelop-opener which is also adapted to be employed as a scratch-awl or marker, a scale, an implement for removing caps from bottles and the like, a knife, and a cigar-cutter. These implements or devices may be used for other purposes besides those specifically noted or indicated by their names.

I attain these objects by the means illustrated in the accompanying drawings, in which—

Figure 1 is a front side view of my combination tool with both blades closed; Fig. 2, a view of the spring for said blades; Fig. 3, a plan or upper edge view of such tool; Fig. 4, a back side view of said tool with both blades closed; Fig. 5, a front view of the tool showing the small or paper-cutting and envelop-opening blade open, and, Fig. 6, a back view showing the large or knife blade open.

Similar figures refer to similar parts throughout the several views.

I first provide a body part of handle 1 which has a screw-driver 2 formed at one end and two hooks 3 and 4 at the other end and a scale 5 marked on its face along the lower edge thereof. Between the screw-driver 2 and the adjacent end of the scale 5 a notch 6 is cut in the handle 1 to form a projection or hook 7. A hole 8 is made in the handle 1 to receive the pointed end of a cigar. The hooks 3 and 4 constitute a cap-remover, the hook 4 being adapted to bear on top of the cap to be removed while the hook 3 engages said cap beneath the edge of the same.

Pivoted at 9 to the handle on opposite sides thereof are two blades 10 and 11, the former being on the face of the handle and the latter on the back. The heel of each of said blades is eccentric to the pivot 9 as shown at 12. The blade 10 is of such shape that it serves as a paper-cutter and envelop-opener. The blade 11 is designed for a knife and also for a cigar-cutter, it being adapted to cut off the protruding end of a cigar in the hole 8 when forced over or past said hole, the operation being performed by pressing on the top or dull edge of said blade when closed and forcing the blade downward or in the direction to traverse the axis of the hole.

A tobacco tamp 13, having its arms pivoted at 14 to the handle 1, is so constructed and arranged that it can be turned up over the end of the screw-driver 2 into operative position or turned down so as to be out of the way of the paper-cutter or of the knife when open.

In order to afford a suitable tension for the blades 10 and 11 I prefer to make use of a peculiarly constructed triple U-shaped spring 15, best shown in Fig. 2, which is adapted to have its toe 16 engaged with the hook 7 and its two heels 17 held in place on both sides of the handle by the pivot 14, while the arms 18—18 of said spring extend beneath the pivotal portions of said blades. The arms of the spring 15 bear forcibly against the blades and tend to retain them in either one of their two normal or open and closed positions. The ctutting edges of the blades have notches 19 therein adjacent to the pivot 9, and these notches or the ends thereof most remote from said pivot encounter the free ends of the spring arms 18 when said blades are closed and limit their movement in the direction of closing. The blade 10 when closed is held by the spring just above or beyond the hole 8, and the blade 11 when closed is held by the spring in a similar position, there is, however, in the second case enough clearance between the end of the notch 19 in said blade 11 and the adjacent end of the spring to permit the blade to exercise its cigar-cutting function before its shoulder strikes against the end of the spring. When opened the blades come to rest against the ends of the tamp arms which, in conjunction with the pivot 14, serve as stops for said blades. The eccentric nature of the bearing portions of the blades, that is, the parts which are around the pivot 9 and bear on the spring, is responsible for an increase in the amount of friction produced by the spring on the blades whenever the latter are moved out of their normal open or closed position or whenever either of them is so moved.

To open or close either blade 10 or 11 simply move it upon its pivot 9 against the resiliency of the spring 15 from one position to the other.

The operations and uses of the several implements and devices which enter into the ensemble of this tool are so well understood as not to require a description here.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A combination tool comprising a handle provided

with a pin, blades pivoted to said handle on opposite sides thereof and provided with eccentric portions adjacent to the pivot, and a triple U-shaped spring mounted on said pin and having its heel in engagement with said handle and arranged to bear against such eccentric portions.

2. A combination tool comprising a handle, blades pivoted to said handle on opposite sides thereof, a tamp having arms pivoted to the handle also on opposite sides thereof, and tension means for said blades, the pivotal connections between the tamp and its pivot serving as stops for the blades when open.

3. A combination tool comprising a handle provided with a hook, a pin in the handle, blades pivoted to said handle on opposite sides thereof, and a triple U-shaped spring engaging said hook and pin and bearing on said blades to furnish tension for the same.

4. A combination tool comprising a handle provided with a hook, a pin in the handle, blades pivoted to said handle on opposite sides thereof, such blades having notches therein, and a triple U-shaped spring engaging said hook and pin and bearing on said blades to furnish tension for the same and to act as stops therefor when the notched portions of the blades encounter the ends of said spring.

STEPHEN J. SIBLEY.

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