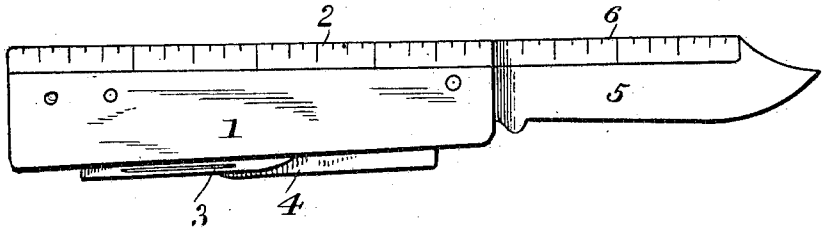
S. P. PETERSON.

COMBINATION TOOL.

APPLICATION FILED APR. 13, 1909.

946,519. Patented Jan. 11, 1910.

Fig. 1.



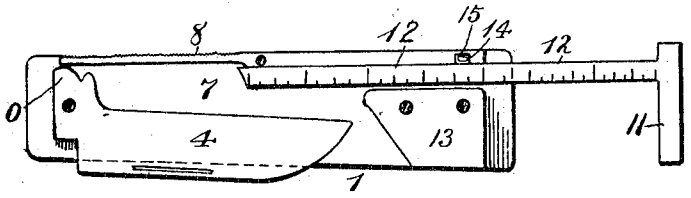


Fig. 2.

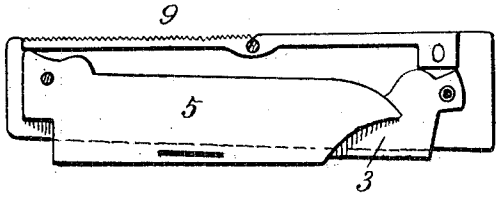


Fig. 3.

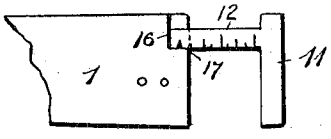


Fig. 4.

Witnesses

F. L. Ourand

M. K. Freeman

Inventor

Silas P. Peterson

By Louis Bagger & Co

Their Attorneys.

UNITED STATES PATENT OFFICE.

SILAS P. PETERSON, OF PRINCETON, ILLINOIS.

COMBINATION-TOOL.

946,519. Specification of Letters Patent. Patented Jan. 11, 1910.

Application filed April 13, 1909. Serial No. 489,730.

To all whom it may concern:

Be it known that I, SILAS P. PETERSON, a citizen of the United States, residing at Princeton, in the county of Bureau 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 a new and useful improvement in combination tools, and has for its object the embodiment of several articles in one tool which may be easily carried upon the person.

It has for its further object novel means for assembling the several parts which will be more clearly understood from the following specification and drawings, in which:—

Figure 1 is a plan view showing one blade open; Fig. 2 is a longitudinal sectional view of one side of the tool, and Fig. 3 is a longitudinal sectional view of the opposite side of the tool. Fig. 4 is a detail showing the caliper ready for use.

In the drawings the numeral, 1, indicates a handle constructed as the ordinary pocket knife handle, and upon its upper edge is provided a graduated scale, 2. Pivoted within the handle are the three blades 3, 4, and 5, of which 3 is the small blade, 4 the medium sized blade, and 5 the larger blade. The large blade 5 is provided with the graduated scale 6 along its upper edge, and this scale is in alinement with the scale 2 of the knife handle when the blade is opened, as clearly shown in Fig. 1. A plate, 7, divides the handle into two compartments and the large and small blades are pivoted within one of the compartments, whereas the medium sized blade is within the other compartment. Secured along the upper edge of the knife are the ordinary springs, 8 and 9, which hold the blades in their open and closed positions. The spring, 8, is somewhat smaller than the spring, 9, and is provided upon its edge with a nail file. Along the upper edge of the spring, 9, is a somewhat coarser nail-file and match scratcher. The blade, 4, is of the shape shown in Fig. 2 so that the end, 10, will engage the spring, 8, and the edge of the blade will be some distance separated from said spring.

Slidably secured within the same compartment with the knife, 4, is a caliper, 11, having the scaled shank, 12. Secured just below the shank of the caliper is the metal block, 13, which holds and guides the caliper against the spring, 8, whereby the caliper will be held in any position. The spring, 8, is notched as shown at 14 and operating within this notch is a pin 15, which limits the movement of said spring, so that the spring will still engage the blade to prevent its accidental opening. The corner of one end of the handle is notched as shown at 16, so that when the caliper is extended for taking measurements the scale can be easily read, the point 17 serving as a pointer.

From the foregoing description of the several parts it is thought that the operation of the tool will be clearly understood. It will be seen that the tool may be used as the ordinary pocket knife, as a measuring instrument, as a caliper, as a nail file, or as a match scratcher, or in fact, for a number of other uses which will be readily apparent. By opening the large blade, 5, it will be seen how the tool may be used as a measuring instrument, and in fact it may be used as a measure for measuring short distances without even opening the blade. The caliper, 11, may be drawn out to any desired distance and will be held in place by means of the spring, 8. This caliper may be used for any desired purpose, such as ascertaining the exterior or interior diameter of a pipe, nut, bolts, etc. By referring to Fig. 2 it will be seen that the blade 4, being of the shape shown, will not in any way interfere with the caliper and the same may be freely operated.

The use of the tool as a nail file or match scratcher is so apparent that it is thought no remarks as to the same are necessary.

It is evident that more or less slight changes might be made in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to be limited to the exact construction herein set forth, but:

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

1. The combination with a handle having blades pivoted therein, of a caliper adapted to slide within the handle and springs adapted to engage both the blades and caliper whereby they are held in position.

2. The combination with a handle having blades pivoted thereon, of a caliper adapted to slide within the handle, and springs adapted to engage both the blades and caliper for holding the same in position, said

springs provided with roughened upper surfaces adapted to be used as nail files and match scratchers.

3. The combination with a handle having blades pivoted therein, of a caliper adapted to slide within the handle, and springs adapted to engage both the blades and caliper whereby they are held in position, said springs provided with openings and pins connected to the handle and adapted to operate in the openings for limiting the movement of the spring.

4. The combination with a handle having blades pivoted therein, of a caliper adapted to slide within the handle, springs adapted to engage both the blades and caliper for holding them in position and a block secured in the handle and adapted to act as a guide for the caliper and to hold the same against the spring.

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

SILAS P. PETERSON.

Witnesses:
A. H. FERRIS,
JOHN A. RUDIGER.