(No Model.)

W. G. THOMPSON.

COMBINATION TOOL.

No. 292,184. Patented Jan. 22, 1884.

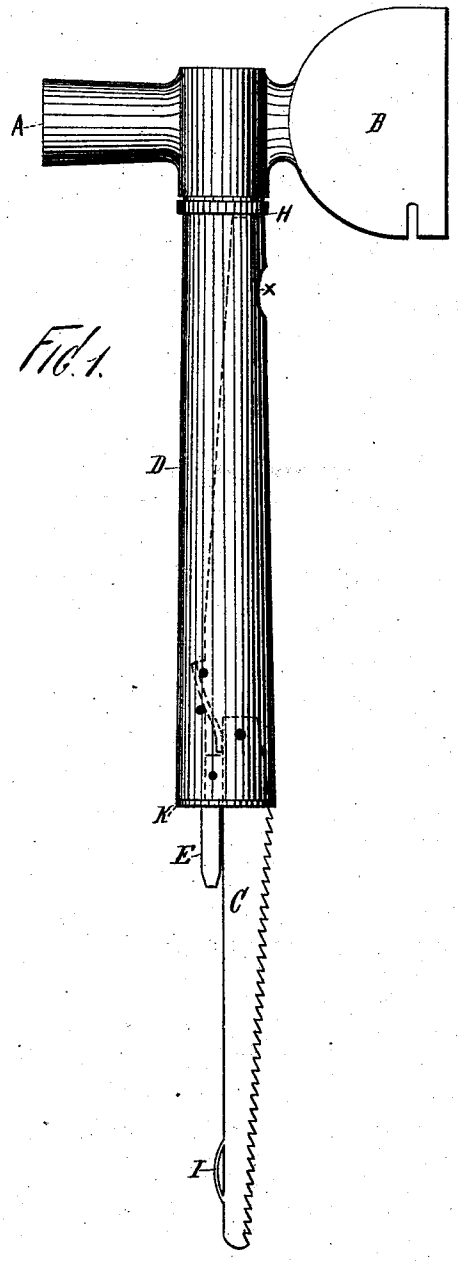


FIG. 1.

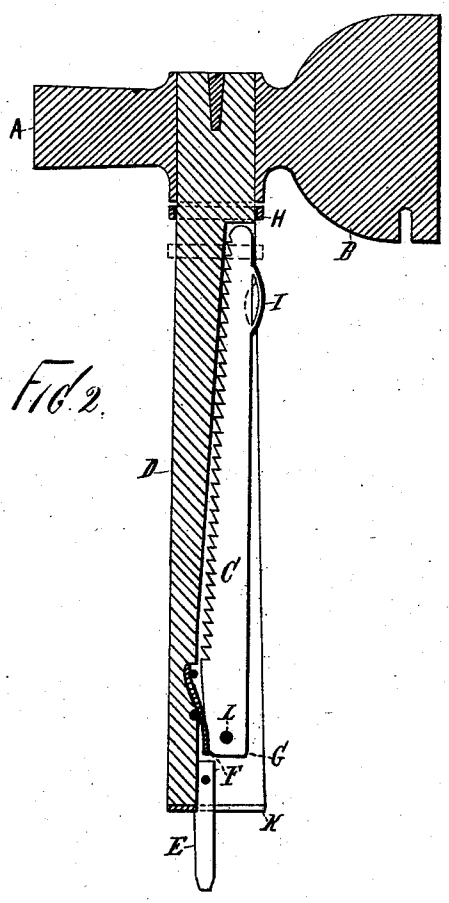


FIG. 2.

Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM G. THOMPSON, OF BROOKLYN, NEW YORK.

COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 292,184, dated January 22, 1884.

Application filed September 1, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM G. THOMPSON, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Combination-Tools, of which the following is a specification.

The object of this invention is to arrange a saw with a handle surrounding and protecting the blade of said saw when not in use, and also to make the handle of said saw serve also as a handle for various other tools which might be combined and connected therewith. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation, and Fig. 2 a vertical section, of a combination-tool embodying a saw and constructed according to my invention.

Similar letters refer to similar parts throughout the several views.

C is a saw-blade, arranged to swing around a pivot, L, into the handle D, a groove, G, being provided in said handle for receiving and protecting said saw-blade when not required for actual use.

I is a projection on the saw-blade, with a depression in the same, to enable the party using the tool to take hold of said saw-blade with the finger-nail and to swing it from the position shown in Fig. 2 to that shown in Fig. 1. It will be seen that after the blade has assumed the position shown in Fig. 2 it is fully protected by the two cheeks forming part of the handle D, said cheeks having remained standing after the groove G had been cut. The whole mode of connecting the saw-blade with the handle is very similar to that used for connecting the blades of pocket-knives with their handles.

F is a spring resting against the end of the saw. Said spring has a tendency and is arranged to hold the saw-blade firmly either in the position shown in Fig. 1 or in that shown in Fig. 2.

K is a metallic plate fastened to the end of the saw-handle D. It serves to strengthen said handle and to prevent it from splitting open.

E is a screw-driver, either fastened to the saw-handle D direct or else to the end plate, K. It will be seen that after the saw has been opened and is ready for use, as shown in Fig. 1, said screw-driver E is made to form a shoulder or support for the saw-blade C.

A is a hammer or head of a hammer, and B the head of an ax or hatchet, both attached to the saw-handle D.

H is a ring placed near the head of the hammer and arranged to slide over the part of the handle adjoining the head of the hammer. Said handle being tapering, the ring H, after assuming a position shown in dotted lines in Fig. 2, will come to rest closely against said handle, the friction between ring and handle keeping the former in position. In said position the ring will then serve to further prevent the saw-blade from swinging out of the handle, which might otherwise occur while the hammer was being used to strike blows.

Various other tools might be connected with and attached to the saw-handle.

I am aware that saw-blades have been connected with handles in a manner similar to that described above. There are, however, certain important advantages to be gained by using the device invented by me. The pivot around which the saw-blade is made to swing being at that end of the handle which is removed farthest from the hammer-head, it will be seen that in using said saw-blade the hammer-head necessarily comes to rest closely against the arm of the operator, thereby steadying the tool and allowing the operator to make use of it in a more vigorous manner and with greater certainty of doing accurate work than could be accomplished if a head of a hammer or hatchet were not combined with said saw as invented by me.

It is a well-known fact that tools such as knives and saws pivoted to and swinging into a handle, after having been used for a considerable time, are apt to become loose in the joint, and when open and ready for use do not rest as firmly against the shoulder supporting them in that position as they did when new. Using the screw-driver E as a rest for the saw-blade again increases its firmness and efficiency.

I am also aware that a saw-blade has been

arranged to slide in a groove contained within the handle of a hatchet, and that a combination-tool has thereby been constructed embodying certain features of the device invented by me; but it will readily be seen that such a combination-tool, holding the saw-blade in position when in use simply by means of a "catch" and a spring, is not adapted to stand as vigorous use as my device.

I claim as new and wish to secure by Letters Patent—

A hammer-handle combined with a hammer-head and a saw-blade, said saw-blade being pivoted to the handle and made to swing into the same when not in use in such a manner as to then bring the free end of the saw-blade nearest to the hammer-head, a sliding ring being provided for confining said saw-blade in such position, substantially as set forth.

WILLIAM G. THOMPSON.

Witnesses:
WALDORF H. PHILLIPS,
CHAS. J. SUMMERSON.