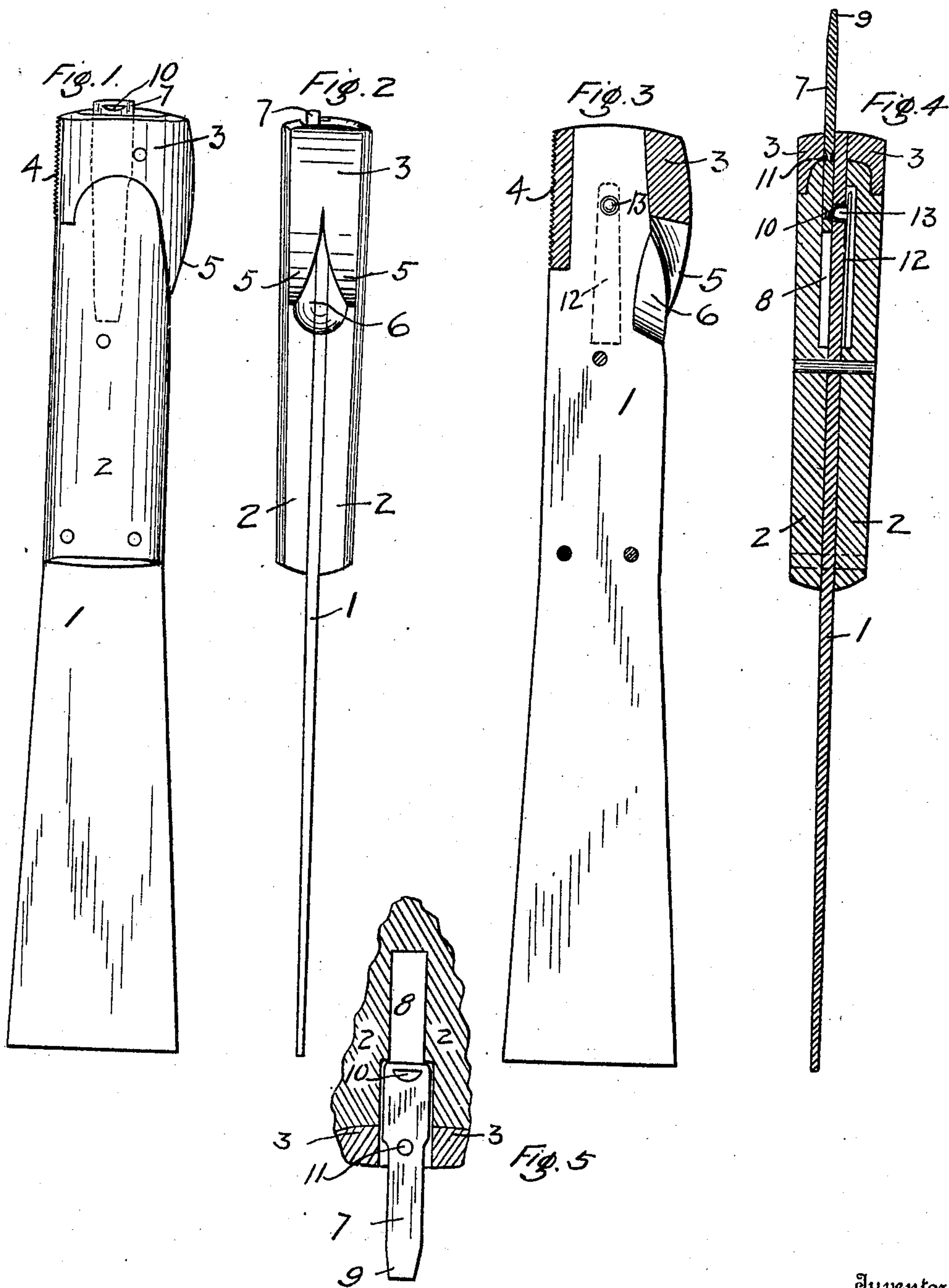


No. 832,455.

PATENTED OCT. 2, 1906.

N. C. CHRISTENSEN.  
COMBINATION TOOL.  
APPLICATION FILED JUNE 30, 1905.



Witnesses  
Paul V. Tuttle.  
M. A. Van House.

Inventor  
Nels C. Christensen  
By P. J. Elliott  
Attorney

# UNITED STATES PATENT OFFICE.

NELS C. CHRISTENSEN, OF TACOMA, WASHINGTON.

## COMBINATION-TOOL.

No. 832,455.

Specification of Letters Patent.

Patented Oct. 2, 1906.

Application filed June 30, 1905. Serial No. 267,814.

*To all whom it may concern:*

Be it known that I, NELS C. CHRISTENSEN, a citizen of the United States of America, residing at Tacoma, in the county of Pierce and State of Washington, have invented certain new and useful Improvements in Combination-Tools, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to combination-tools, and is especially designed for the use of painters, and has for its object to provide an improved combination-tool which consists of novel devices and arrangements of parts  
15 whereby a painter may perform all the small incidental deeds usually met with without having to carry with him several extra tools. I attain this object by the devices illustrated in the accompanying drawings, in which—

20 Figure 1 is a side elevation, and Fig. 2 is a front elevation, of the tool. Fig. 3 is a side view showing one side of the handle removed and the head thereof in section, and Fig. 4 is a longitudinal cross-section of the  
25 tool. Fig. 5 is a side elevation of the screw-driver blade in operative position in the handle.

Similar numerals of reference refer to similar parts throughout the several views.

30 In general outline this tool appears like an ordinary putty-knife, having a blade 1 and wooden side handle-pieces 2. I cut away the end of the handle-pieces 2, however, and place the head-piece 3 in their stead. This  
35 head-piece 3 is made of steel and is roughened along the rear side to form a hammer 4, while its front side is provided with a claw-head 5. The ears of this claw-head 5 are parallel with the hammer-face 4 and are  
40 curved so as to end flush with the front edge of the handle-pieces 2. A cavity 6 is made in the handle-pieces 2 and in the edge of the blade 1 under the claws 5, so as to allow the claws to pass under a nail-head. Besides  
45 the above devices I provide a removable screw-driver 7, which is inserted in a recess 8 in one of the handle-pieces 2 beside the blade 1. The recess 8 is broader at the outer end and has shoulders where it is made narrower.  
50 The screw-driver 7 is formed with a narrow operating end 9 and with a nail-groove 10 near its other broader end. It also has a small notch 11 near its center. The two

sides of the screw-driver 7 are made identical. A spring 12 is secured to the other  
55 side of the blade 1 in a suitable recess in the other handle-piece 2 and has a pin or lug 13 secured to its side near its end. This lug 13 passes through a hole in the blade 1 and extends on the other side thereof. The posi-  
60 tion of this lug 13 is such as to engage the notch 11 if the screw-driver is not in its operating position, and in this position the nail-groove 10 is located so that it can be engaged by the thumb-nail and the screw-driver 7  
65 pulled out from the recess 8. When the operating end 9 of the screw-driver is in operating position, (see Figs. 4 and 5,) the lug 13 engages the nail-groove 10 thereof, and the broad end engages against the shoulders in  
70 the recess 8.

My tool will be worked under many differing circumstances; but I may state that if a nail is sticking out only a short distance from the wood it would be best to drive it in with  
75 the hammer-head 4, since the claws 5 cannot grip a head which is very close to the wood. Further, since the screw-driver 7 is very nearly central with the blade 1 the entire parts act together to form a screw-driver and  
80 handle.

Having now described my invention, what I claim is—

The combination with a tool-handle having a recess formed in one end and extending  
85 therinto, said recess being formed in two parts each part having parallel sides but the outer part being of greater dimensions than the inner part, a shoulder being formed at the junction of the two parts of the recess;  
90 a removable reversible tool adapted to enter both of said recess parts when not in its operative position, but only the outer of said recess parts when in its operative position, its inner end abutting against the shoulder  
95 formed between said recess parts when in its operative position; and a spring-actuated clamping-lug adapted to engage said removable tool to hold it either in its operative or  
100 idle positions.

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

NELS C. CHRISTENSEN.

Witnesses:

M. H. COREY,  
M. A. VAN HOUSE.