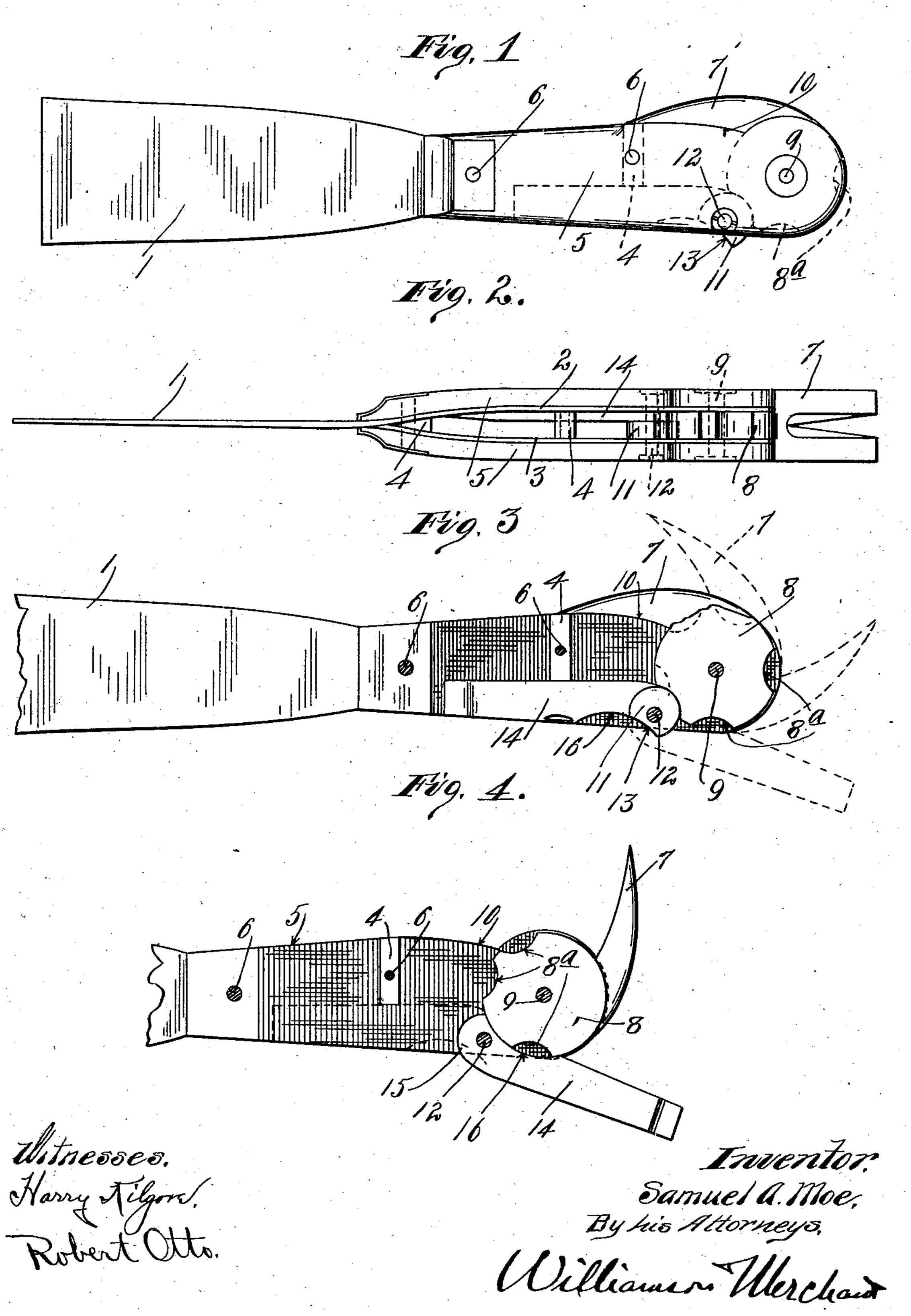
S. A. MOE. COMBINATION TOOL.

(Application filed July 22, 1901.)

(No Model.)



United States Patent Office.

SAMUEL A. MOE, OF MINNEAPOLIS, MINNESOTA.

COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 699,207, dated May 6, 1902.

Application filed July 22, 1901. Serial No. 69,201. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL A. MOE, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of 5 Minnesota, have invented certain new and useful Improvements in Combination-Tools; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in to the art to which it appertains to make and use the same.

My invention has for its especial object to provide an improved combination-tool.

To the above end the invention consists of 15 the novel devices and combinations of devices hereinafter described, and defined in the claims.

The invention is illustrated in the accompanying drawings, wherein like characters 20 indicate like parts throughout the several views.

movable parts thereof closed. Fig. 2 is a plan 25 view of the tool with the claws opened up. Fig. 3 is a view corresponding to Fig. 1 with one side of the handle removed and the various positions of the movable parts being indicated by dotted lines; and Fig. 4 is a view 30 corresponding to Fig. 3, but with some parts broken away and with both the screw-driver and the claws opened up.

The numeral 1 indicates the blade of a putty-knife, the inner end of which is ex-35 tended at 2 and is rigidly secured to but spaced apart from a coöperating lining-strip 3 by means of spacing-blocks 4. The handleferming pieces 5 are suitably secured by rivets 6 to the outer faces of the metal por-40 tions 2 and 3.

The numeral 7 indicates a pair of claws, which is provided with a disk-like inner end 8, having a plurality (as shown, three) of locknotches 8a. The said disk portion 8 is piv-45 oted at its center between the ends of the lining-pieces 23 and handle-pieces 5 by means of a strong rivet 9. The projecting claws 7

tool-handle, and the said handle is cut at 10,

are in width approximately the width of the

| folded against the handle, as shown in Figs. 1 and 2.

To lock the claws 7 in any one of the three positions indicated in Fig. 3, I provide a notched lock tumbler or eccentric 11, which 55 is pivoted between the sides of the handle by means of a rivet or pin 12. This lock-tumbler 12 is provided with a segmental notch 13, which when turned into line with the periphery of the disk 8 permits the said disk and its 60 claws 7 to be freely moved. When, however, the said lock-tumbler 11 is turned into any other position, it will engage one or the other of the notches 8a and will lock the said disk 8 and its claws 7 in one or the other of its 65 three positions. The said lock 11 is preferably made slightly eccentric, so that it may be moved first freely into one of the said notches and then brought into tight engagement therewith.

The third tool, which is preferably in the Figure 1 is a view in side elevation, show- | form of a screw-driver or similar instrument ing my improved combination-tool with the | 14, is pivoted on the pin 12 by the side of the lock-tumbler 11. At its inner end the screwdriver 14 is provided with a rounding surface 75 15, which is also adapted to closely engage with one or the other of the notches 8a, and it is also provided with a segmental notch or depression 16, which when turned as indicated in Fig. 4 permits the free movement of 80 the disk 8 and its claws 7, but is itself closely engaged by the periphery of said disk 8, so that the screw-driver is locked in an open position.

> From the above it will be seen that the 85 pivoted end of the screw-driver coöperates with the lock-tumbler 11 to lock the claws in any one of their three positions, and that the screw-driver is in turn adapted to be locked by the disk 8 of the said claws. When the 90 parts are closed, as indicated by full lines in Figs. 1 and 3, the claws are locked, and when the parts are turned as shown in Fig. 4 the screw-driver is locked in its open position.

So far as the broad idea of my invention is 95 concerned the screw-driver or member 14 might be dispensed with. Again, instead of the putty-knife some other tool might be provided. The invention is also capable of other 50 so as to permit the said claws to be closely | modifications. The tool described, however, 100 makes a combination-tool which is very serviceable to carpenters, painters, and many other workmen.

What I claim, and desire to secure by Letters Patent of the United States, is as follows:

1. The combination with a tool-handle, of a tool pivoted thereto and provided with a notched disk, and a locking element pivoted to said handle and provided with a notch adapted to be moved into registration with the periphery of said disk to permit free movements of said pivoted tool, said locking element in other positions being engageable with one of the notches of said disk, to lock said pivoted tool in a set position.

2. The combination with a tool-handle, of a pair of tools pivoted thereto and provided with disk-like pivoted ends, the peripheries of which intersect, and each of which disk-like ends have notches cut on the line of an

arc struck from the center of the other member, whereby either tool may be locked by the disk-like end of the other, substantially as described.

3. The combination with the bifurcated 25 tool-handle having a rigidly-connected blade 1 of the jaws 7 provided with a notched disk 8 8a pivoted between the sides of the handle at 9, the lock-tumbler 11 pivoted between the sides of the handle at 12 and provided with 30 the notch 13, and the tool 14 also pivoted at 12, and provided with the rounded lock portion 15 and notch 16, which parts coöperate, substantially as described.

In testimony whereof I affix my signature 35

in presence of two witnesses.

SAMUEL A. MOE.

Witnesses:

E. H. KELIHER, F. D. MERCHANT.