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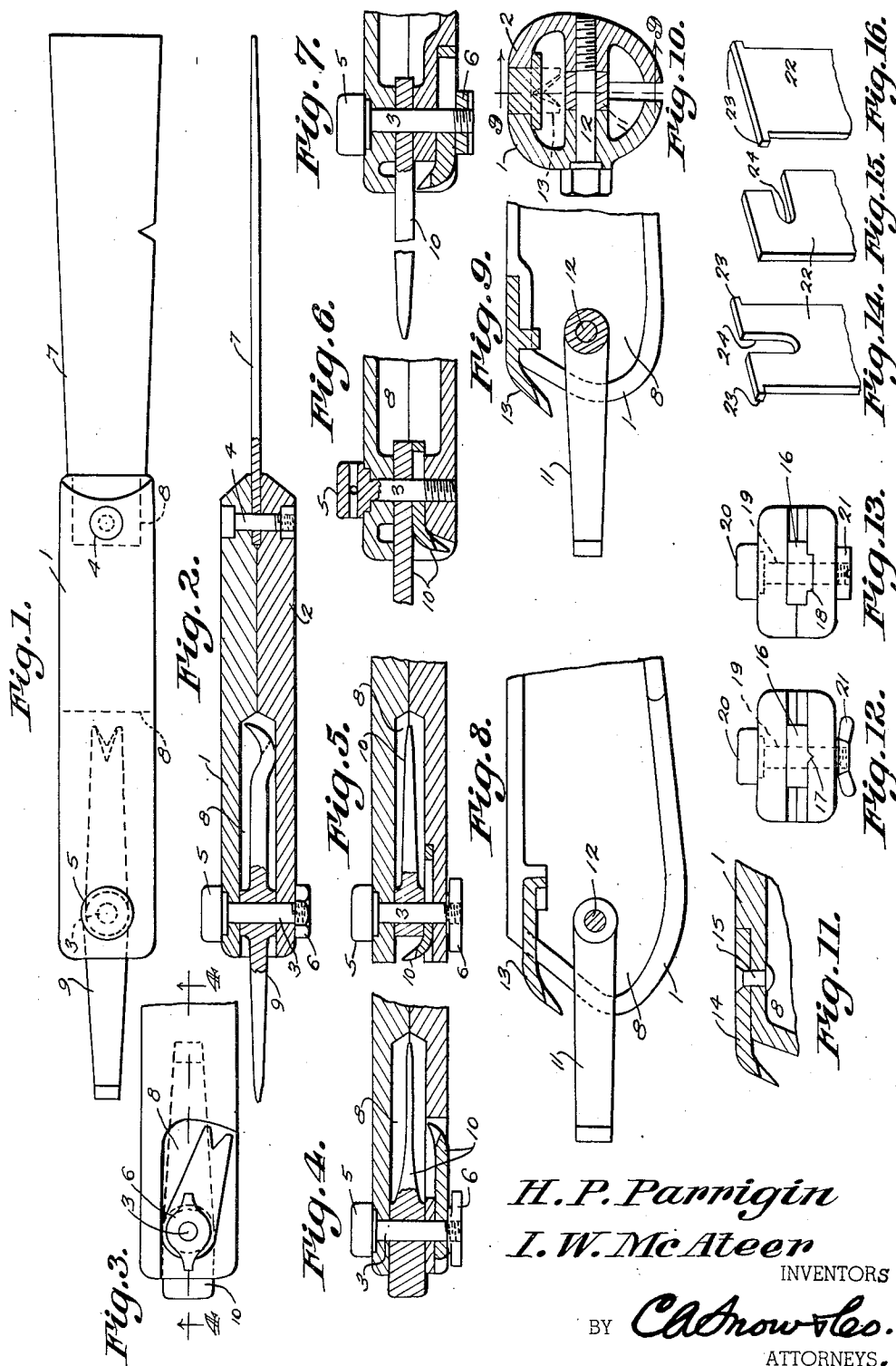
H. P. PARRIGIN ET AL

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HANDLE WITH RECESS FOR PIVOTED BLADES

Filed Aug. 16, 1948

2 Sheets-Sheet 1



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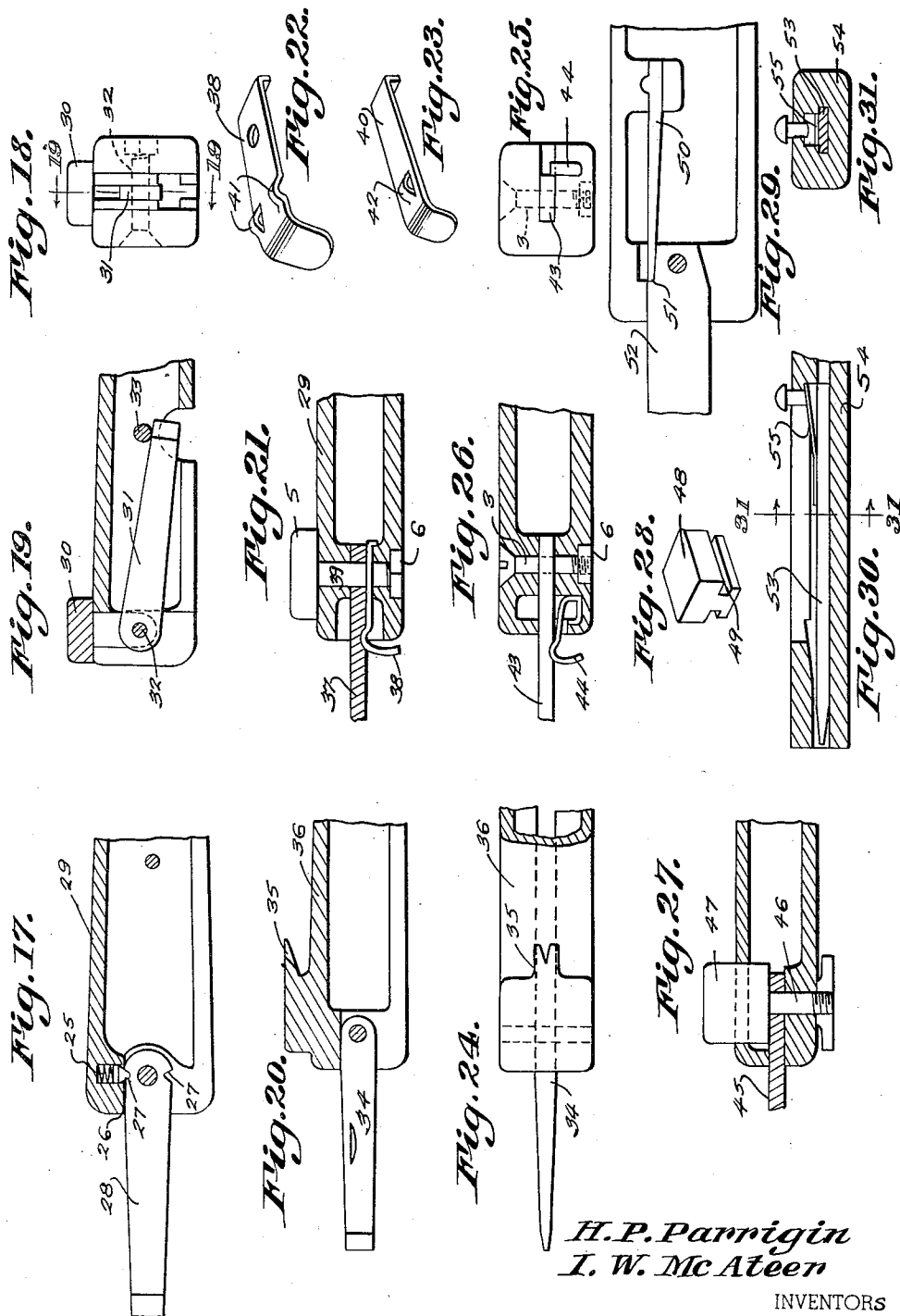
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HANDLE WITH RECESS FOR PIVOTED
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1 Claim. (Cl. 145—62)

1

This invention relates to an improvement in combination tools.

An object of the invention is to provide an improved combination tool including a handle and a plurality of tools interchangeably supported thereby, and means for locking the tools in operative position with respect to the handle.

Another object of the invention is to provide an improved combination tool including a handle and a plurality of tool forming blades pivotally attached to the opposite ends of said handle, and means for resiliently and selectively supporting the various tools in operative position with respect to the handle.

A further object of the invention is to provide an improved multiple blade combination tool which will be highly efficient in use and relatively inexpensive to manufacture and produce.

Other objects will appear as the description proceeds.

In the accompanying drawings which form a part of this application:

Figure 1 is a plan view of the combination tool with tool blades supported from the opposite ends of the handle.

Fig. 2 is a vertical longitudinal sectional view through the improved combination tool.

Fig. 3 is a detail view of a portion of the tool handle, the same being partly broken away to show the tool in the handle and one tool extending therefrom, with a modified locking wing nut for securing the tools.

Fig. 4 is a sectional view taken on the line 4—4 of Fig. 3.

Fig. 5 is a detail sectional view showing the use of a slitted tack pulling tool.

Fig. 6 is a detail sectional view showing the use of a modified form of tool securing bolt.

Fig. 7 is a detail sectional view of another form and arrangement of tool securing bolt.

Fig. 8 is a detail view of a handle showing a pivoted tool and a detachable tool supported thereby.

Fig. 9 is a modified form of construction shown in Fig. 8, being a section taken on line 9—9 of Fig. 10.

Fig. 10 is a transverse sectional view taken through the construction shown in Fig. 9.

Fig. 11 is a detail view showing the use of a rivet for supporting a tool.

Fig. 12 is an end view of one form of blade interlocking means.

Fig. 13 is an end view of a further form of blade interlocking means.

Figs. 14, 15 and 16 show various forms of an-

2

choring tongues or ears on the inner ends of the tool blades.

Fig. 17 is a detail view showing the use of a spring projected locking detent for holding the tool blade.

Fig. 18 is an end view of a tool incorporating a blade and hammer.

Fig. 19 is a sectional view taken on the line 19—19 of Fig. 18.

Fig. 20 is a detail view showing a pivoted tool and integral tack drawing tool.

Fig. 21 is a detail view showing a pivoted tool and hammer with spring locking clip.

Figs. 22 and 23 are different forms of spring locking clips.

Fig. 24 is a detail view of a tool incorporating an integral screw driver and tack puller.

Fig. 25 is a detail end view of a further modified form of spring locking clip.

Fig. 26 is a vertical longitudinal sectional view through the device shown in Fig. 25.

Fig. 27 is a detail sectional view showing a hammer incorporated with the blade pivoting and supporting bolt.

Fig. 28 is a perspective view of a detachable hammer with T-locking shank.

Fig. 29 is a detail view showing a leaf spring used for locking a tool blade in position.

Fig. 30 is a vertical longitudinal sectional view of a resiliently tensioned projectible blade tool.

Fig. 31 is a sectional view taken on the line 31—31 of Fig. 30.

Like characters of reference are used throughout the following specification and the accompanying drawings to designate corresponding parts.

In carrying out the invention, there is shown and provided a tool handle including two cooperating portions 1 and 2, being held together at its opposite ends by the threaded bolts 3 and 4. The head of the bolt may be enlarged to form a hammer 5, and nuts 6 of various formation may be threaded upon the threaded bolts 3 and 4.

A tool blade 7, such as a putty knife or scraper will be rigidly supported at the end of the handle by means of the bolt 4.

Generally speaking, the opposite ends of the handle will be recessed as at 8 to receive the various tools which may be double ended as shown by the reference numeral 9, or may be individually mounted as at 10 upon the bolts 3.

In Figs. 8, 9 and 10, there is shown a handle formed of the portions 1 and 2, with a tool 11 pivoted on a cross bolt 12 and a detachable tool

13 interlocked in operative position on the handle.

In Fig. 11, a tool 14 is secured to the tool handle 1 by means of a rivet 15.

The tools 16 shown in Figs. 12 and 13 are respectively formed with a V-locking projection 17 and a rectangular locking projection 18, said tools being secured by the bolts 19 upon which the hammer heads 20 are formed; and units 21 secure the several parts together.

In Figs. 14, 15, and 16, the tool blades 22 are formed with various arrangements of locking ears 23 and slots 24.

In Fig. 17, a spring 25 and locking detent 26 are employed to lock in the notches 27 to hold the tool blade 28 in open and shut position in the handle 29.

Figs. 18 and 19 show a hammer 30 and pivoted blade 31 upon a cross pin 32, with limiting cross pins 33 for limiting the inward movement of the blade 31.

A pivoted blade 34 and integral tack pulling claw 35 formed on the handle 36 are shown in Fig. 20.

Fig. 21 shows a pivoted blade 37 with a spring locking clip 38 for engagement therewith for holding the same in extended position with respect to the handle 29.

Figs. 22 and 23 show spring locking clips 38 and 40 respectively with two positioning ears and one positioning ear 41 and 42 for engaging and securing a tool.

Figs. 25 and 26 show a pivoted tool blade 43 and a modified form of spring retaining clip 44 therefor.

Fig. 27 shows a blade 43 held by a bolt 46 upon which a hammer head 47 is formed.

A detachable hammer 48 having a T-locking shank 49 is shown in Fig. 28.

In Fig. 29, a leaf spring 50 is used to engage a shoulder 51 in the tool 52 for holding the same in extended position.

In Figs. 30 and 31, the tool blade 53 is slidably supported in the hollow handle 54, and a pressible spring 55 is used to contact the blade 53 for holding the same in the desired adjusted position.

While the preferred embodiment of the instant

invention has been illustrated and described, it will be understood that it is not intended to limit the scope of the invention thereto, as many minor changes in detail of construction may be resorted to without departure from the spirit of the invention.

Having thus described our invention what we claim as new and desire to secure by Letters Patent of the United States is:

10 In a tool a handle comprising a pair of handle sections shaped to define between them a blade-receiving recess and an open end recess, said handle sections including opposed bosses separating the recesses; a connecting bolt extending through said bosses and joining the handle sections together; 15 a pivoted blade swinging on said bolt, said blade swinging into the blade-receiving recess to an inoperative blade position and swinging out of said blade-receiving recess to an operative position in which it extends through and out of said end recess; and a blade-engaging detent member 20 formed from flat spring material, one end of said member being fixedly mounted in the handle, the other end of said member extending through the end recess and including at least one blade-engaging node for engaging the blade in its extended position, said detent member including a finger grip at its free end for pressing the detent member downwardly within said end recess for 30 disengagement from said blade.

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