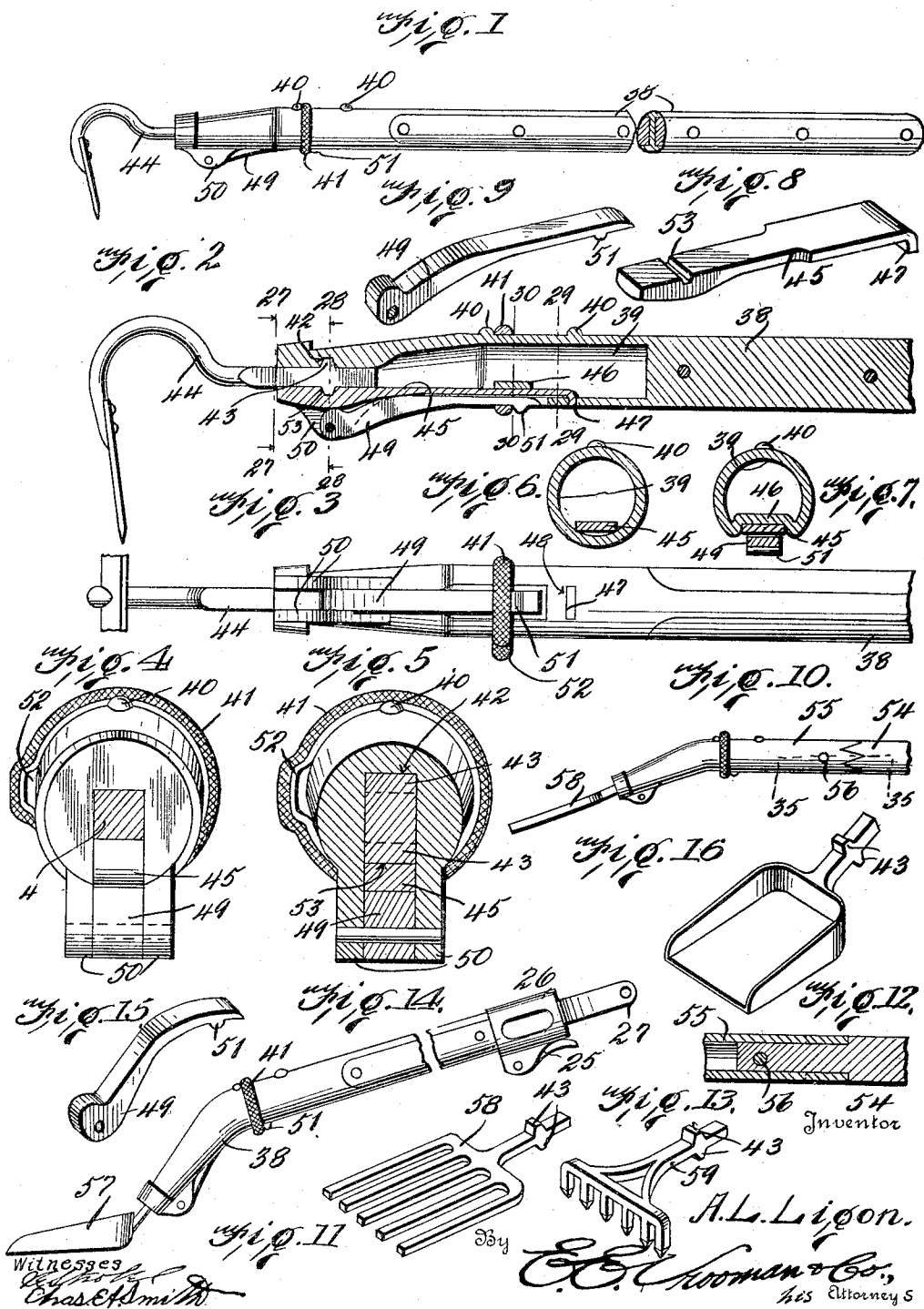


A. L. LIGON.
COMBINATION TOOL SET.
APPLICATION FILED AUG. 6, 1915.

1,205,760.

Patented Nov. 21, 1916.



UNITED STATES PATENT OFFICE.

ARTHUR LEE LIGON, OF PECOS, TEXAS.

COMBINATION TOOL SET.

1,205,760.

Specification of Letters Patent.

Patented Nov. 21, 1916.

Application filed August 6, 1915. Serial No. 44,071.

To all whom it may concern:

Be it known that I, ARTHUR LEE LIGON, a citizen of the United States of America, residing at Pecos, in the county of Reeves and State of Texas, have invented certain new and useful Improvements in Combination Tool Sets, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a detachable handle for tools and has for its object the production of a simple and efficient detachable handle whereby various different tools may be attached to the handle by merely releasing a clamping lever and placing a new tool in engagement with the handle and then throwing the clamping lever to a locked position.

A still further object of this invention is the production of a simple and efficient means for holding the clamping lever for locking a detachable tool in engagement with a handle in a set position.

Figure 1 is a side elevation of a handle used in connection with the present invention, showing a hoe attached thereto. Fig. 2 is a central longitudinal section of a handle, showing a hoe attached thereto. Fig. 3 is a bottom plan view of a handle, showing a hoe attached thereto. Fig. 4 is a section taken on line 27—27 of Fig. 3. Fig. 5 is a section taken on line 28—28 of Fig. 3. Fig. 6 is a section taken on line 29—29 of Fig. 3. Fig. 7 is a section taken on line 30—30 of Fig. 3. Fig. 8 is a detailed perspective of the latch carrying arm used in connection with the present invention. Fig. 9 is a detailed perspective of the latch carried by the handle shown in Fig. 1. Fig. 10 is a side elevation of the handle, showing a straight tool such as a spade or fork attached thereto. Fig. 11 is a detailed perspective of a fork tool. Fig. 12 is a section taken on line 35—35 of Fig. 10. Fig. 13 is a detailed perspective of a rake head. Fig. 14 is a side elevation of the handle, showing shovel attached thereto. Fig. 15 is a detailed perspective of the clamping cam latch used in connection with the handle illustrated in Fig. 14. Fig. 16 is a detailed perspective of a shovel used in connection with the handle illustrated in Fig. 14.

By referring to the drawings it will be seen that 38 designates the handle of the tool having a socket 39 formed in the outer

end thereof. The handle 38 is provided with a plurality of knobs 40 formed thereon, between which knobs 40 works the sleeve 41. The socket 39 is provided near the outer end thereof with a notch 42 in which is adapted to fit the projections 43 of the tool 44 adapted to be secured to the handle 38. A detachable clamping plate 45 is carried by the handle 38 and passes under the integral bridge portion 46 extending within the socket 39. This clamping plate 45 is provided with a downwardly extending end 47 fitting in a notch 48 formed in the handle 38. A clamping latch 49 is pivotally secured to the ears 50 of the handle 38 and this clamping latch 49 is provided with a knob 51 formed upon the outer end of the latch 49 to limit the rearward movement of the ring or band 41. This band 41 is provided with an outwardly punched portion 52 to permit the ring to be moved over the knob 51 of the latch member 49 after the ring 41 has been rotated to the desired position. It will therefore be seen that by releasing the ring 41 from the latch member 49, the latch member 49 may be swung outwardly and the plate 45 released from the tool 44. The plate 45 is provided with a transversely extending notch 53 for engaging one of the projections 43 formed upon the tool 44. It should be understood that the handle as shown in Fig. 10 comprises a wooden or other suitable shank 54 fitting in an integral sleeve 55 and held therein by means of a rivet 56. As illustrated in Fig. 14, a shovel 57 may be secured to the handle 38 or a fork 58 or rake 59 may be secured thereto, if so desired. A sleeve 26 is adapted to be placed upon the outer end of the handle and is provided with a grip portion 27, and a latch 25 is carried thereby for firmly holding the sleeve 26 in engagement with the handle.

What I claim is:—

1. A handle of the class described comprising a body, a clamping plate removably secured to said body and provided with a depending end, said body provided with a socket at one end thereof, said clamping plate extending into said socket, said body provided with an aperture formed in one side thereof and adapted to receive said depending end for holding said clamping plate against longitudinal movement upon said handle, said body provided with a plurality of projecting ears, a clamping latch

pivotally secured between said ears, a tool adapted to be engaged by said plate and handle whereby said tool will be firmly held in engagement with said handle as said
5 clamping latch is swung into locked engagement with said clamping plate, a clamping ring slidably mounted upon said handle, means for limiting the movement of said clamping ring, and means formed upon said
10 clamping latch for preventing said ring from accidentally slipping from said clamping latch.

2. A handle of the class described comprising a body, a clamping plate removably
15 secured to said body and provided with a depending end, said body provided with a socket at one end thereof, said clamping plate extending into said socket, said body provided with an aperture formed in one
20 side thereof and adapted to receive said depending end for holding said clamping plate against longitudinal movement upon said handle, said body provided with a plu-

ality of projecting ears, a clamping latch pivotally secured between said ears, a tool
25 adapted to be engaged by said plate and handle whereby said tool will be firmly held in engagement with said handle as said clamping latch is swung into locked engagement with said clamping plate, a clamping
30 ring slidably mounted upon said handle, means for limiting the movement of said clamping ring, means formed upon said clamping latch for preventing said ring from accidentally slipping from said clamp-
35 ing latch, said ring provided with a notch formed therein, said clamping latch provided with a projecting bead adapted to register with said notch for permitting said ring to slide from said projecting bead and
40 allow said clamping latch to be swung to an unlocked position.

In testimony whereof I hereunto affix my signature.

ARTHUR LEE LIGON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."