Nov. 7, 1933. W. SUTTON 1,933,940

TOOL FOR RELOADING AMMUNITION FOR PISTOLS AND RIFLES

Filed June 10, 1931 2 Sheets-Sheet 1

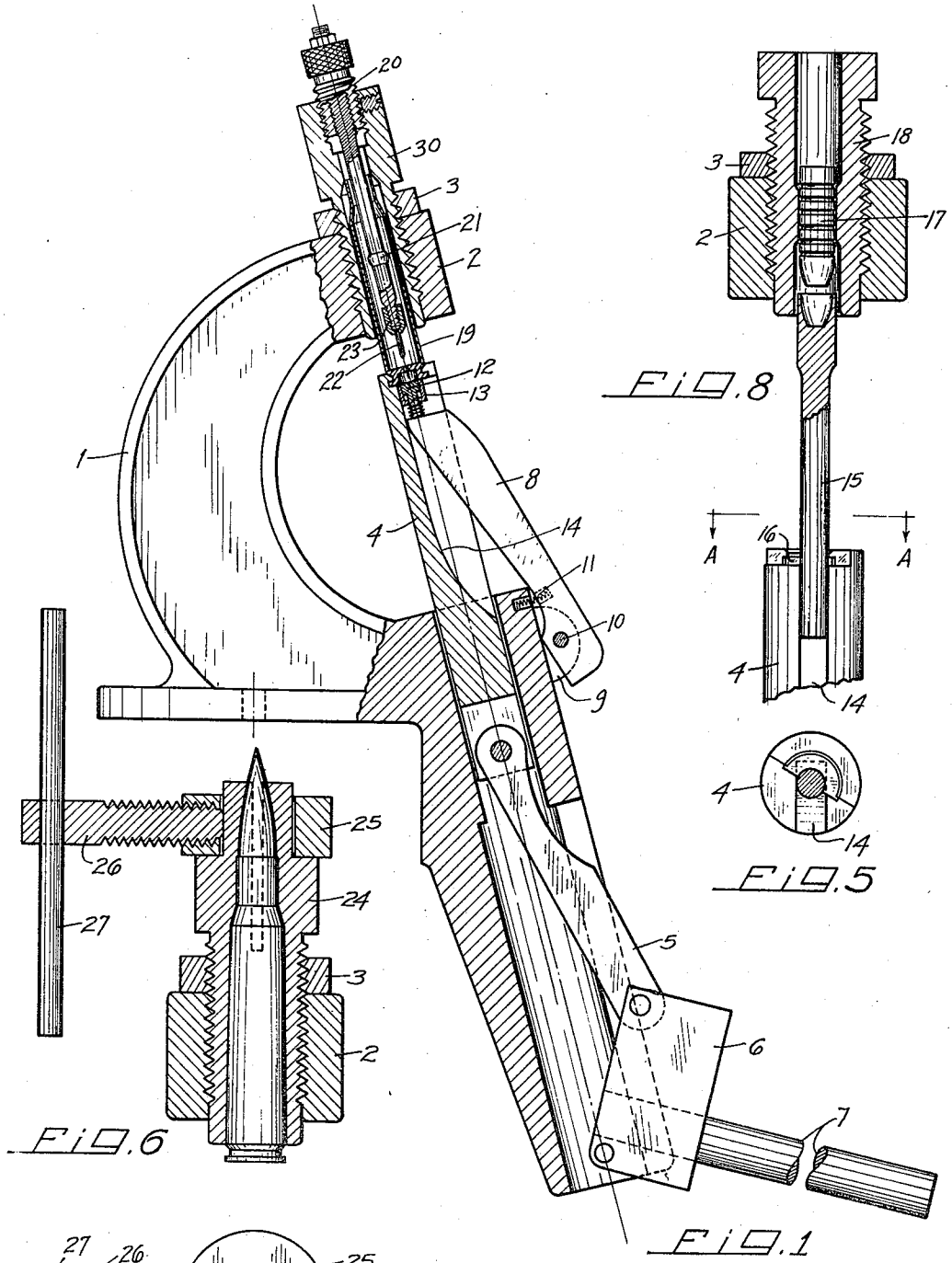

FIG. 1

FIG. 8

FIG. 5

FIG. 6

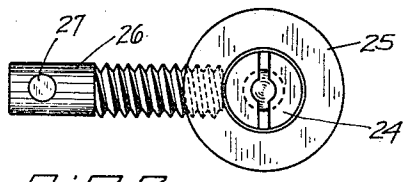

FIG. 7

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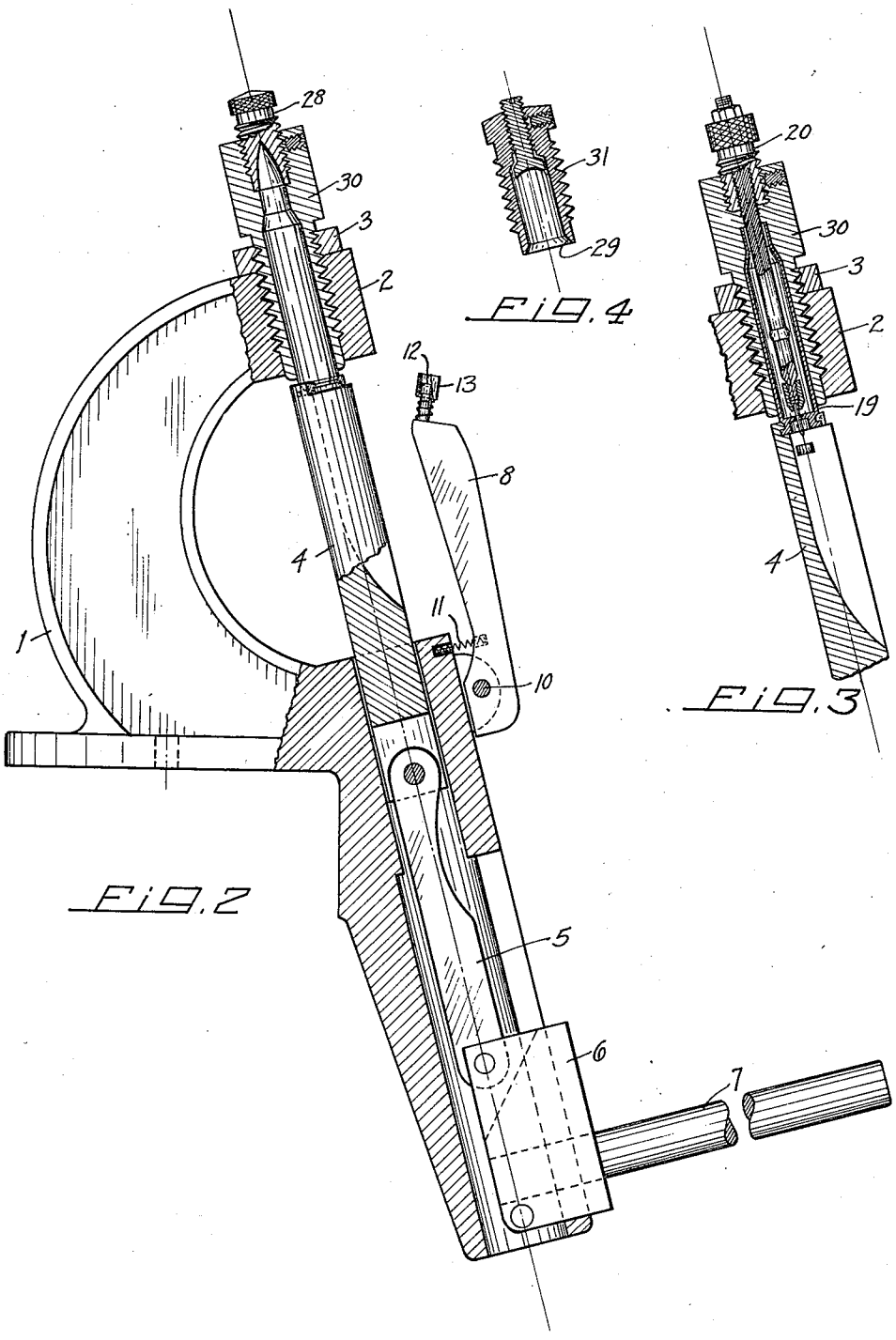

Fig. 2

Fig. 4

Fig. 3

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TOOL FOR RELOADING AMMUNITION FOR PISTOLS AND RIFLES

Walter Sutton, San Francisco, Calif., assignor to Pacific Gun Sight Company, San Francisco, Calif., a corporation of California

Application June 10, 1931. Serial No. 543,296

4 Claims. (Cl. 86—28)

My invention relates to tools for reloading ammunition for pistols and rifles; and the objects of the improvements are, first, the provision in one tool, of a complete cartridge rebuilding and bullet seating device; second, to incorporate in the one tool full length resizing of the cartridge case.

With the above and other objects in view, the invention consists in the novel features of construction, the combination and arrangement of parts as set forth in the following description, pointed out in the claims and shown in the accompanying drawings, in which:

Fig. 1 is a sectional elevation of the assembled tool, set in the priming position.

Fig. 2 is a sectional elevation of the assembled tool, when used for bullet seating.

Fig. 3 is a sectional view of a fragment of the tool, holding the cartridge case in the decapping position.

Fig. 4 is a sectional view of the crimping attachment.

Fig. 5 is a plan view of Fig. 8 at A—A.

Fig. 6 is a sectional view of the bullet pulling attachment.

Fig. 7 is a plan view of Fig. 6.

Fig. 8 is a sectional view of the bullet resizing attachment.

Referring now, more particularly to the drawings in which reference characters are used to designate the several parts throughout the views, the numeral 1 indicates the frame or base member, used to support the several attachments, 2 indicates the threaded head of frame 1 by means of which various cartridge case rebuilding attachments are attached and secured in position by locking ring 3. Part 4 is the rigid cartridge case holder. Part 5 is a connecting link between holder 4 and handle block 6. Part 7 is a handle for operating said block. Part 8 is the priming arm, held in position between lugs 9 by means of pivot pin 10. Part 11 is a coil spring for holding priming arm away from guide holder 4, when not being used. Part 12 is the primer holder with sliding sleeve 13 in place on priming arm. Part 14 is a slot in guide holder 4.

Part 15 is a special shaped push rod held by attached blank 16 in cartridge case holder 4 for use in forcing bullets 17 through sizer die 18 (see Fig. 8).

Part 19 is a cartridge case in place in guide holder 4.

Part 20 is a plug attachment, held in full length resizer die 30 containing a removable expander plug 21 and decapping pin 22, attached to the lower end of the removable expander plug 21 by collar 23.

In Figs. 6 and 7, numeral 24 indicates a split block plug collar 25, compression screw 26 and handle 27 in place for bullet pulling. Part 28 indicates bullet seater plug. Part 29 indicates crimping shoulder (see Fig. 4).

The operation of the improved tool, thus far described is as follows:—

The used shell case 19 is placed in guide holder 4 shown in Fig. 3. Handle 7 is lifted, forcing guide holder 4 up. This movement forces used shell case 19 up into full length resizing die 30. Plug 20, being attached to die 30, forces out the fired primer on this upward movement of used shell case, by means of decapping pin 22.

A new primer having been placed in priming cup 12 and priming arm 8 placed in position as shown in Fig. 1, handle 7 is forced down, thus withdrawing resized case from die 30 and forcing new primer into place in case 19. On the downward movement of case 19, expander plug 21, expands mouth of case 19 as the case leaves full length resizing die.

The operation of rebuilding the fired cartridge case is now completed and the shell case is now ready for the powder charge.

The powder charged case with bullet set lightly in mouth of case is then placed in guide holder 4, as shown in Fig. 2. Handle 7 is raised and the powder charged case and bullet is forced up into bullet seater 28 which has previously replaced plug 20 in die 30. The finished cartridge is now withdrawn.

Regarding the special attachments, should it be desired to crimp the shell case on the bullet, bullet seating plug 28 is replaced by crimper plug 31.

The tool may also be used to size bullets as shown in Fig. 8. Bullet sizer die 18 is placed in chuck or head 2 and rod 15 is placed in guide holder 4.

When used as a bullet puller, split block plug 24 is placed in chuck 2. Clamp screw 26 forces split block plug 24 to grip bullet. Case being set in guide holder 4, is pulled down or away from bullet by depressing the handle 7.

The improved tool with its interchangeable attachments, may be adjusted to rebuild any commercial or special size pistol or rifle case.

What I claim is:

1. A tool of the class described including a frame having a support for interchangeable attachments, and a guide opening axially alined

with said support; a rigid case holder slidable in said opening; a handle pivoted in said frame adjacent said opening; and a link within said opening having its ends pivoted to said holder and handle respectively.

2. A tool of the class described including a frame having a support for interchangeable attachments, and a guide opening axially alined with said support; a rigid case holder slidable in said opening; a handle pivoted in said frame on a pivot extending across said opening; and a link within said opening having its ends pivoted to said holder and handle respectively, and forming a toggle the centers of which are adapted to aline within said opening.

3. A tool of the class described including a frame having a support for attachments, and a guide alined thereon; a case holder slidable in said guide and having an opening therein beneath said case; a capping means movable into and out of said opening; and means for advancing and retracting said holder with respect to said support.

4. A tool of the class described including a frame having a support for attachments, and a guide alined thereon; a case holder slidable in said guide and having a longitudinal slot therein; a capping arm pivoted on said frame and movable into and out of said slot; and means for advancing and retracting said holder with respect to said support.

WALTER SUTTON.