Oct. 4, 1938. J. R. SANDER 2,132,323

PISTOL HOLDING DEVICE

Filed April 28, 1937 2 Sheets-Sheet 1

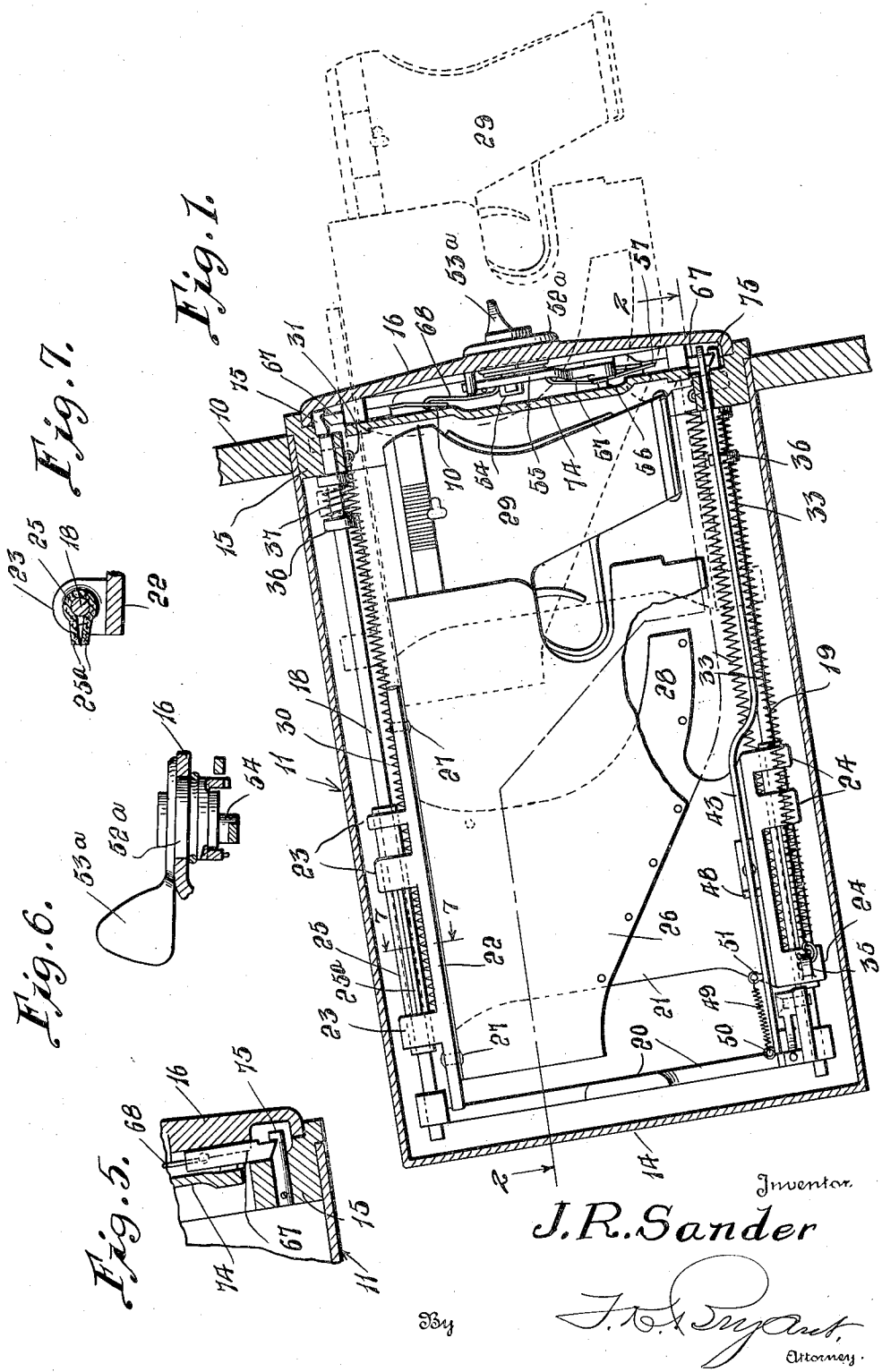


Fig. 1.

Fig. 7.

Fig. 6.

Fig. 5.

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PISTOL HOLDING DEVICE

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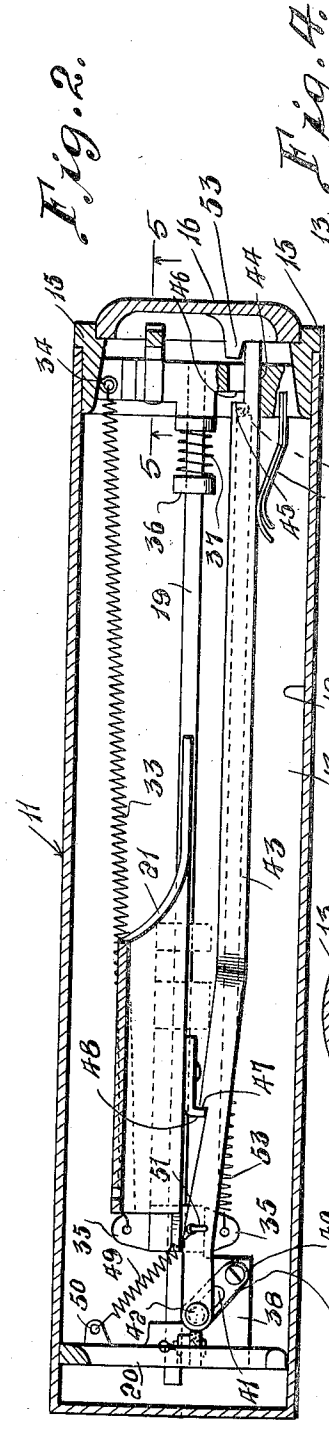


Fig. 2.

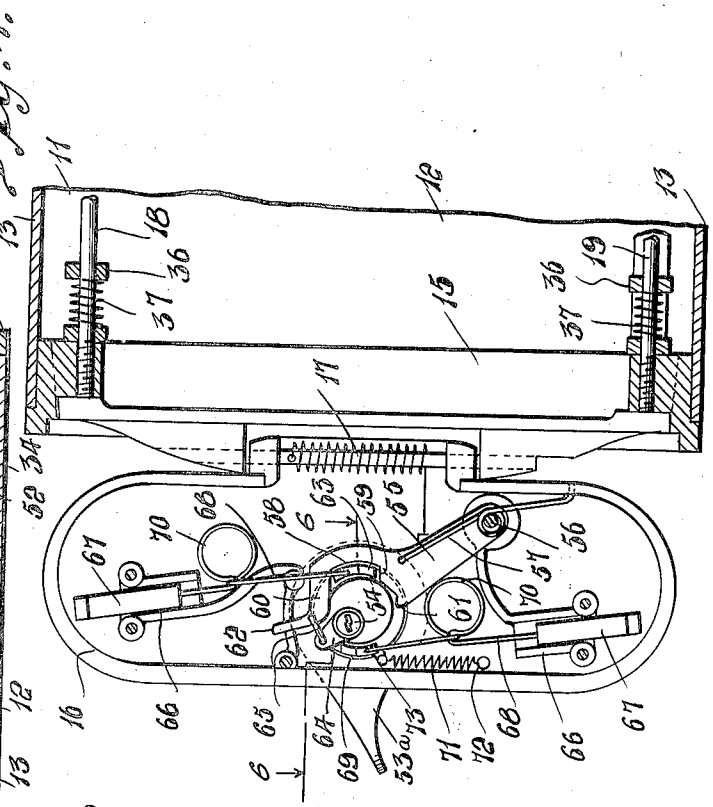


Fig. 4.

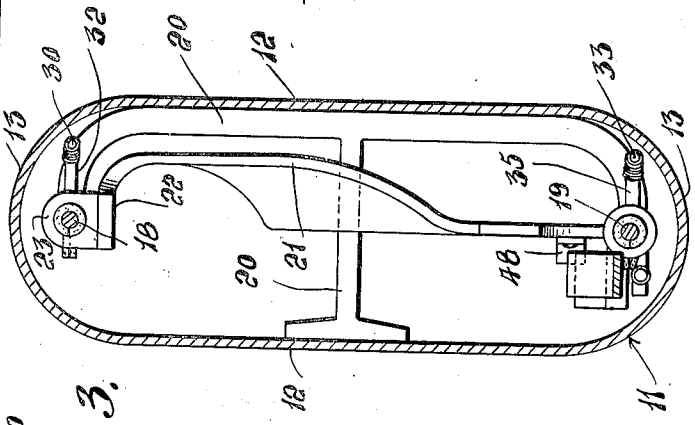


Fig. 3.

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2,132,323

# UNITED STATES PATENT OFFICE

2,132,323

## PISTOL HOLDING DEVICE

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Application April 28, 1937, Serial No. 139,591

2 Claims. (Cl. 224—2)

This invention relates to certain new and useful improvements in pistol holding devices and is of the general character disclosed in patent granted to J. R. Sander on October 13th, 1925, Patent No. 1,557,339, and embodies improvements in the art thereover.

The primary object of the invention is to provide a pistol holding device that is capable of attachment to an appropriate part of a truck, bus, aeroplane, motorcycle or other vehicle, it being understood however that the same may also be used in stores, banks, the offices of theatre cashiers, railway cars and the like, the holder being concealed from view with the exception of a locked door therefor that when opened permits automatic projection of the pistol handle into position for ready grasping by the user.

A further object of the invention is to provide a pistol holding device of the foregoing character wherein the tensioned support for the pistol is adapted to be latched within a casing with a closure door for the casing adapted when moved to its closed and locked position to release the tensioned support for the pistol for automatic projection from the casing when the door is opened and into position for ready grasping for use.

With the above and other objects in view that will become apparent as the nature of the invention is better understood, the same consists in the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawings and claimed.

In the accompanying drawings:—

Figure 1 is a vertical longitudinal sectional view of a pistol holding device constructed in accordance with the present invention, the pistol and a part of the holster thereof normally within the concealed casing being illustrated by dotted lines in its projected position when the casing door is opened,

Figure 2 is a horizontal sectional view taken on line 2—2 of Figure 1, showing the latch device for the pistol support that normally holds the pistol retracted in the casing when the door is opened, in its releasing position with the door closed,

Figure 3 is a vertical cross-sectional view of the casing showing the inner end of the support or frame of the pistol holding device,

Figure 4 is a fragmentary vertical longitudinal sectional view with the door of the casing open and the cover on the inner wall of the casing door removed to illustrate the door latch mechanism carried thereby,

Figure 5 is a detail sectional view taken on line 5—5 of Figure 2, showing the door latch,

Figure 6 is a detail sectional view taken on line 6—6 of Figure 4, and

Figure 7 is a detail sectional view taken on line 7—7 of Figure 1.

While the pistol holding device may find use in many different arts, the same is illustrated as associated with the instrument board 10 of an automobile, the pistol holding device comprising a casing 11 of elongated construction and substantially rectangular in plan view with parallel side walls 12 connected by arched top and bottom walls 13, the forward end of the board 10 being closed by an end wall 14 while the inner open end of the casing has a frame 15 suitably anchored therein and carrying a closure door 16 having a spring hinge connection 17 with the frame 15 at one side thereof to effect automatic opening of the door when the latch and lock mechanism associated therewith is released.

A frame structure within the casing 11 includes a pair of longitudinally extending rods 18 and 19 respectively arranged adjacent the top and bottom walls 13 of the casing, the inner ends of the rods being anchored in the frame 15 while the outer or forward ends of the rods 18 and 19 are anchored in a spider frame 20 to brace the rods 18 and 19 and maintain them in parallel relation to each other.

A plate 21 curved in the plane thereof as shown in Figure 3 is slidably mounted upon the rods 18 and 19, the upper end of the plate 21 as shown in Figs. 1 and 3, terminating in a bar 22 projecting from opposite ends of the plate 21 and carrying upon its upper side collars 23 slidable upon the rod 18. Collars 24 depend from the lower side of the plate 21 and are slidable on the lower rod 19. A lubricated leather or fabric sleeve 25 surrounds each rod 19 for a certain length thereof and is confined in position by means of the collars 23 and 24 to facilitate sliding movement of the plate 21 on the rods 18 and 19, the sleeve 25 being shown in section in Figure 7 as a sheet folded upon itself with laterally projecting side edges 25a to facilitate the placement of a lubricant within the sleeve. A holster 26 of leather or other suitable material is carried by one side of the plate 21 with the upper end of the holster riveted as at 27 to the bars 22 of the plate 21 and as shown more clearly in Figure 1, the plate 21 adjacent the lower end thereof carries an arm or bar 28 directed toward the open side of the casing 11 that terminates in a plane substantially alined with the adjacent end of the bar 22 at the

upper end of the plate 21 for purposes presently to appear. A pistol is illustrated in Figure 1 as mounted within the holster 26 with the handle 29 disposed exteriorly of the holster and located adjacent the open end of the casing 11.

The plate 21 is normally influenced in a direction toward the open end of the casing 11 by spring devices including a coil spring 30 anchored at one end as at 31 to the upper side of the frame 15 at the open end of the casing 11 while the other end of the spring 30 is anchored to a lug 32 projecting laterally of the end collar 23 as shown in Figure 3. A pair of coil springs 33 is anchored at their forward ends as at 34 to the lower side of the frame 15 while the other ends of the springs 33 are anchored to lugs 35 projecting laterally of the end collar 24 as shown in Figures 1, 2 and 3. Projecting movements of the plate 21 under influence of the springs 30 and 33 is limited by the adjacent collars 23 and 24 on the upper and lower edges of the plate 21 moving into engagement with the abutment collars 36 slidable upon the rods 18 and 19 with said collars 36 cushioned by the coil springs 37 surrounding the rods 18 and 19 between said collars 36 and the frame 15.

Latch devices are provided for holding the tensioned plate 21 in its retracted position within the casing 11 while the door is in open position for the placement of a pistol in the holster 26 and said latch devices include a block 38 carried by the skeleton frame 20 adjacent the lower side of the casing 11 and the forward end of the lower rod 19, the block 38 having an arm 39 pivotally mounted at one end thereon as at 40 with the other end of the arm 39 longitudinally slotted as at 41 to receive a pin 42 carried by the adjacent end of an elongated latch rod 43, the opposite end of which projects through an opening 44 formed in a wall of the frame 15 at the open end of the casing 11. A latch shoulder 45 is formed on the upper side of the latch rod 43 adjacent the free end of the latter and is adapted for engagement with the wall 46 of the frame 15 at the top of the opening 44 through which the adjacent end of the latch rod 43 extends. A latch shoulder 47 is also formed on the latch rod 43 adjacent the pivoted end thereof and is adapted to be engaged by a latch lug 48 projecting laterally of the plate 21. The latch rod 43 is normally retained in its retracted position within the casing by means of the coil spring 49 attached at one end as at 50 to the spider frame 20 with the other end of the spring 49 attached as at 51 to the latch rod 43. As shown in Figure 2, a leaf spring 52 carried by the frame 15 in the open end of the casing 11 is engaged with the latch rod 43 for normally positioning the latch shoulder 45 on the latch rod 43 for engagement with the abutment wall 46 of the frame 15.

When the closure door 16 of the casing 11 is open, as shown in Figure 4, a pistol is inserted in the holster 27 with the holster and plate 21 pushed into the casing 11 against the tension of the springs 30 and 33, the latch lug 48 on the plate 21 being moved into engagement with the abutment shoulder 47 on the latch rod 43 while the spring 52 engaged with the free end of the latch rod 43 positions the same so that the abutment shoulder 45 will engage the wall 46 of the frame 15, the pistol holster and plate being then confined within the casing, with the springs 30 and 33 tensioned so that when the latch rod 43 is released, the springs 30 and 33 automatically project the plate 21 and holster 26 toward the open end of the casing 11 to place the handle 29 of the pistol in the position shown by dotted lines in Figure 1 for ready grasping by the user.

When the door 16 is closed and latched in closed position, by mechanism to be presently described, a cam lug 53 projecting inwardly from the inner face of the closure door 16 moves into engagement with the adjacent free end of the latch rod 43 to slightly push the same further into the casing 11 and to lower the free end of the latch rod to position the abutment shoulder 45 on the latch rod laterally of the abutment wall 46 of the frame 15 as shown in Figure 2 so that when the closure door 16 is later opened, the plate 21 and holster 26 carrying the pistol are automatically projected through the door opening. With the door 16 in closed position, the cam 53 holds the latch rod 43 in its released position against the tension of the spring 52, the parts being so related that when the closure door 16 is opened, the spring 52 will be uneffective for positioning the abutment shoulder 45 for engagement with the wall 46, but will permit the shouldered portion 45 of the latch rod to pass through the opening 44 in the frame 15.

The latch and lock devices associated with the closure door 16 are shown more clearly in Figs. 1 and 4 to 6 and include a disk 52*a* swivelled in the closure door 16 intermediate the ends thereof with an operating handle 53*a* for the disk located at the outer side of the closure door. A key controlled lock barrel 54 is journalled axially of the disk 52*a* and is adapted to be operated to permit movement of the handle 53*a* for rotation of the disk 52*a* that releases the latch mechanism. An arm 55 is pivotally mounted at one end on a pin 56 rising from the inner face of the closure door 16 and a wire spring 57 is associated with the arm 55, pivot pin 56 and door 16, normally tends to move the free end of the arm 55 away from the lock barrel 54. The arm 55 as shown in Figure 4 has the free end thereof positioned laterally of the lock barrel 54 with a part thereof overlying the inner face of the disk 52*a*, the side of the arm 55 spacing the lock barrel 54 having a deep cut recess 58 therein defining shoulders 59 and 60, another shoulder 61 being formed on the arm 55 in a plane nearer the barrel 54 and adjacent the shoulder 59. The free end of the arm 55 carries an extended finger 62. The bottom wall of the recess 58 is of arcuate formation to receive an upstanding arcuate lug 63 rising from the marginal edge of the inner face of the disk 52*a* and a finger 64 projecting laterally of the lock barrel 54 has a link connection 65 with the finger 62 so that when the lock barrel is moved to locked position, the free end of the arm 55 is moved toward the lock barrel for positioning the lug 63 in the recess 58 between the shoulders 59 and 60 with rotation of the disk by the handle 53*a* prevented. A guide 66 is carried adjacent each end of the cover 16 for a sliding latch bolt 67 that has a spring wire connection 68 with the disk 52*a*, one of the wires 68 having its inner end attached to the upstanding lug 59 while the spring wire for the other latch bolt 67 has its end attached to an upstanding lug 69 rising from the disk 52*a* diametrically opposite the lug 59. Each spring wire 68 has a loop 70 intermediate its ends to permit latching action of the latch bolts 67. A coil spring 71 anchored at one end as at 72 to the door 16 has its other end attached as at 73 to the lug 69 rising from the disk 52. A cover plate 74 is secured to the inner face of the closure door 16 for housing the latch and lock mechanism car-

ried by the inner face of the door. As shown in Figures 1 and 5, a keeper **75** is carried by each end of the frame **15** of the casing **11** for cooperation with the latch bolts **67**.

From the above detailed description of the invention, it is believed that the construction and operation thereof will at once be apparent, it being noted that when the closure door **16** is in open position, the plate **21**, holster **26** and pistol **29** are partially moved through the open end of the casing **11** as illustrated by dotted lines in Fig. 1. To confine the pistol **29** within the casing **11**, the plate **21** is slid into the casing on the guide rods **18** and **19** against the tension of the springs **30** and **33**, the latch shoulder **47** on the latch rod **43** being engaged with the abutment **48** on the plate **21** while the latch shoulder **45** adjacent the free end of the latch rod **43** is engaged with the wall **46** of the frame **15**, the spring **52** laterally shifting the free end of the latch rod **43** to accomplish such engagement. When the door **16** is closed against the tension of the spring hinge connection **17** therefor, the cam **53** upon the inner face of the door engages the adjacent free end of the latch rod **43** to laterally shift the same and also slightly move the latch rod further into the casing **11** to position the latch shoulder **45** laterally of the abutment wall **46** as shown in Fig. 2. The latch bolts **67** automatically engage the keepers **65** and operation of the lock barrel **54** by a key moves the free end of the arm **55** against the tension of the spring **57** for positioning the arcuate lug **63** in the bottom of the recess **58** to restrain the disk **52***a* from rotation by the handle **53***a* and thereby maintain the latch bolts **67** in locked engagement with their keepers **75**. When it is desired to place the lock mechanism in set position for ready release and automatic projection of the pistol **29**, the lock barrel **54** is rotated by means of a key and by means of the arm and link connection **64** and **65** between the lock barrel **54** and arm **55**, the latter is shifted to displace the arcuate lug **63** from the bottom of the recess **58** in said arm so that when the handle **53***a* is moved to rotate the disk **52***a* the arcuate lug **63** may move a distance controlled by the abutment shoulder **61** on the arm **55** and during which movement, the latch bolts **67** are retracted for disengagement from the keepers **75**. When the door **16** is automatically opened by the spring hinge connection **17**, the plate **21** together with the holster **26** and pistol **29** are automatically projected through the open end of the casing **11** by means of the springs **30** and **33**. When the door **16** is closed the latch mechanism within the casing is shifted to a set position to permit automatic projection of the pistol when the closure door **16** is opened.

While there is herein shown and described the preferred embodiment of the invention, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit and scope of the invention as claimed.

I claim:—

1. In a device of the character described, a casing, a closure door for the casing, a tensioned pistol support slidable in the casing, latch mechanism for retaining the support in the casing during placement of a pistol therein when the door is open and a part of the latch mechanism lying in the path of closing movement of the door whereby the door releases the latch mechanism when the door is moved to closed position for automatic projection of the holder and pistol when the door is thereafter opened.

2. In a device of the character described, a casing, a closure door for the casing, a tensioned pistol support slidable in the casing, latch mechanism for retaining the support in the casing during placement of a pistol therein when the door is open including an elongated latch rod having a tensioned pivot-link mounting at one end adjacent the closed end of the casing, latch means for the latch rod intermediate the ends thereof and at the end adjacent the door respectively cooperating with the holder and casing, and means on the door for releasing the latch device at the end of the latch rod from the casing when the door is closed to permit automatic projection of the holder when the door is opened.

JOHN R. SANDER.