J. D. PEDERSEN.

FIREARM.

APPLICATION FILED DEC. 26, 1919.

1,387,938. Patented Aug. 16, 1921.

Fig. 1.

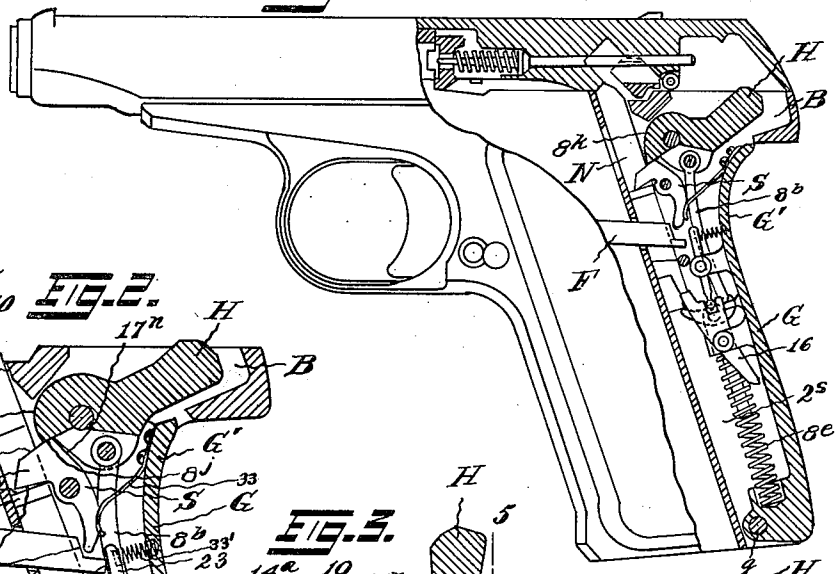


Fig. 2.

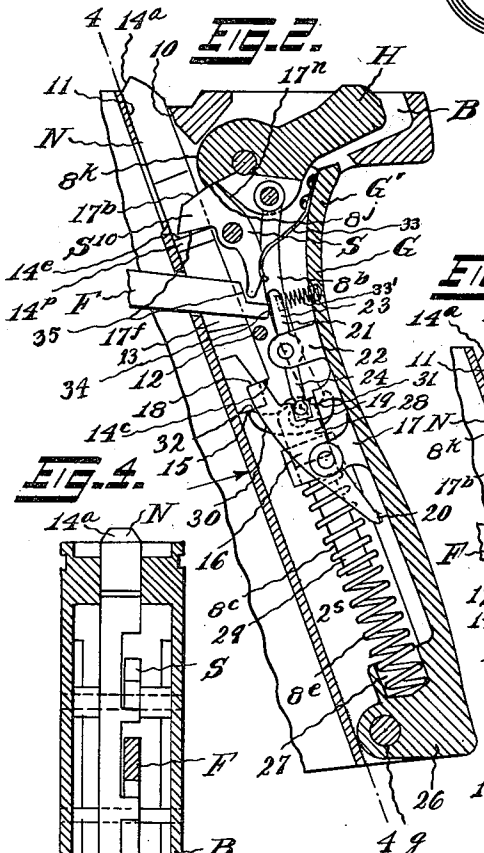


Fig. 3.

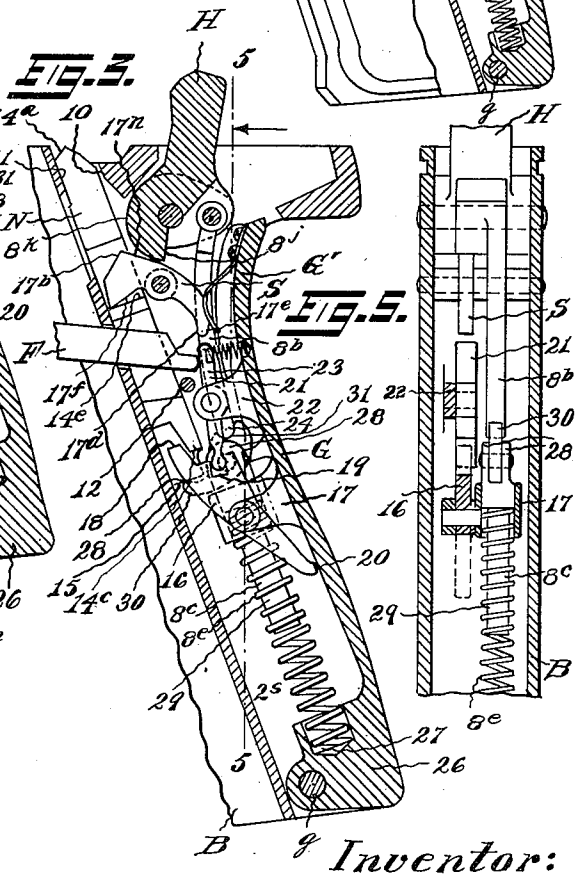


Fig. 4.

Fig. 5.

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UNITED STATES PATENT OFFICE.

JOHN D. PEDERSEN, OF JACKSON, WYOMING.

FIREARM.

1,387,938. Specification of Letters Patent. Patented Aug. 16, 1921.

Application filed December 26, 1919. Serial No. 347,437.

To all whom it may concern:

Be it known that I, JOHN D. PEDERSEN, a citizen of the United States, residing in Jackson, in the county of Lincoln and State of Wyoming, have invented certain new and useful Improvements in Firearms, of which the following is a specification.

This invention relates more especially to that class of firearms which is usually designated as small arms, and a principal object of the invention is to furnish an improved grip-safety device particularly applicable to auto-loading and automatic pistols.

One class of small arms to which my present improvements are applicable, includes the auto-loading pistols having a grip-stock, or handle-portion of the frame or receiver of the firearm, which is adapted to receive a safety device operable by hand-grip or compression.

An improved auto-loading pistol of this kind is described in my patent No. 1,348,733, dated August 3rd, 1920, and granted on my co-pending (renewal) application Serial No. 311,689, filed July 17, 1919. Therefore, for convenience of illustration, I have herein illustrated my present improvements as arranged and applied to the particular kind of auto-loading pistol shown in the drawings of said patent, to which reference may be had.

The features of my grip-safety device are that it is a grip or handle contained safety device arranged to prevent firing of the firearm by locking the firing member or hammer and the trigger sear, when my grip-safety device is in normal or safety position. Also, where the firearm is provided with a sliding breech action comprising a firing pin, to prevent discharge of the firearm by locking the breech action to prevent contact between the firing-pin and the cartridge, so that action of the firing member or hammer on the firing-pin will not explode the cartridge.

Another feature of my grip-safety device is that it is provided with a slidable member or controller, which is moved in a direction, upwardly as shown, into position to lock the trigger sear and firing member or hammer, and the sliding breech action, as the case may be, by pressure of the main spring or firing spring when the firing member or hammer is moved to firing position.

Another feature of my grip-safety device is that pull upon the trigger member, when the grip-operable or grip-safety member of my device is grip-compressed, first releases the slidable member or controller for movement from its locking position, and subsequently moves the sear member to release the firing member or hammer for movement from firing position to fired position.

In the accompanying drawings, which illustrate an embodiment of my grip-safety device,

Figure 1, is a side elevation, partly broken away to show the details, of a pistol provided with my grip-safety device and having a sliding breech action, the grip-operable or grip-safety member of my device being in normal position or position of safety, the breech action being locked, and the firing member or hammer being locked in firing position.

Fig. 2, is a fragmentary side view, on larger scale than Fig. 1, and broken away to show the details, of the rear portion of a pistol provided with my grip-safety device, the grip-operable or grip-safety member of my device being grip-compressed to move a blocking member preparatory to pull upon the trigger member to release the slidable member or controller for movement to unlocking position, and preparatory to movement of the sear member to release the firing member or hammer for movement to fired position.

Fig. 3, is a fragmentary side-view, on substantially the same scale as Fig. 2, and broken away to show the details, of a pistol provided with my grip-safety device, the grip-operable member being grip-compressed, the blocking member being moved by trigger pressure to release the slidable member or controller, the sear member being moved by trigger pressure to release the firing member or hammer, the slidable member or controller being moved to unlocking position, and the firing member or hammer moved to fired position.

Fig. 4, is a detail sectional view, on the line 4—4 Fig. 2, looking in the direction of the arrow, of the rear portion of a pistol provided with my grip-safety device, part of the front side of the rear portion of the pistol being removed.

Fig. 5, is a detail sectional view, on the line 5—5 of Fig. 3, looking in the direction of the arrow, of the rear portion of a pistol provided with my grip-safety device, part

of the rear side of the rear portion of the pistol being removed.

Similar reference characters or numerals refer to similar parts throughout the several views.

My grip-safety device comprises, with various other parts to be described, a firing member or hammer H, the grip-stock of the pistol being bored out or otherwise suitably cut away to receive the firing member or hammer and the various parts of my device.

The firing member or hammer H is pivotally supported by the grip-stock of the pistol and is provided with a firing-notch or cock-notch 8^j and an eccentric cam face 8^k, and is movable to firing position and to fired position.

The sear member S, is pivotally supported by the grip-stock of the pistol and is provided with a locking-shoulder 17^b for engaging the firing-notch or cock-notch 8^j, and with a face 17^n for engaging the eccentric cam face 8^k of the firing member or hammer H, and is provided with an arm S^{10} having a face 17^f, and with a rear-face 17^e and an end-face 17^d.

The slidable member or controller N is movable upwardly and downwardly, being guided at its upper end in its sliding movement by guide-faces 10 and 11 in the frame or receiver B of the pistol, and is guided at its lower end by a vertical rib or portion of the grip-stock which acts as a guide-face, and by a pin 12, mounted in the grip-stock of the pistol, or by other means suitable for retaining the slidable member or controller in position for sliding movement and to prevent shifting thereof.

The pin 12 also acts as a detent means for the slidable member or controller as hereinafter more fully set forth.

The slidable member or controller N is provided at its upper end with a point or face 14^a, which, when the slidable member or controller is in upward position, lies in the path of or blocks the sliding breech action of the pistol in its rearward movement. The slidable member or controller N is provided with a shoulder 14^p having an upper engaging surface 14^e, with which the face 17^f of the arm S^{10} of the sear member is engageable. A recess or slot 13, is provided in the slidable member or controller N through the shoulder 14^p, to receive the end of the trigger member F, and permit movement or play upward and downward of the trigger member F therein. The lower portion, of the shoulder 14^p of the slidable member or controller N is provided with a bottom-face or bottom side 14^c, and the slidable member or controller N terminates in an end-face 15.

The blocking member or controller-blocking member 16, is pivotally supported on a bracket 17, mounted on the grip-operable or grip-safety member G, and is movable with the grip-operable or grip-safety member, and is provided at its upper end with an end-face 18 which is engageable with the bottom-face or bottom-side 14^c of the slidable member or controller, and is provided with a recess 19. An end-face 20 at the lower end of the blocking member 16 is engageable with the grip-operable or grip-safety member G to prevent movement of the blocking member 16 out of engagement with the slidable member or controller N, when the slidable member or controller is in locking position and the grip-operable or grip-safety member is in position of safety.

From the foregoing description of my invention it will be seen, that if the firing member or hammer through breaking or wearing away of the cock-notch 8^j of the firing member or hammer, or of the locking-shoulder 17^b of the sear member, should accidentally be moved to fired position while the slidable member or controller N is blocked in locking position by the blocking-member 16, the engagement of the eccentric cam face 8^k of the firing member or hammer with the face 17^n of the sear member will so slow down or retard the actuation of the firing member or hammer to fired position as to prevent effective discharging contact between it and the firing-pin.

The lever-block 21, is pivotally attached to a bracket 22, mounted on the grip-operable or grip-safety member G. The lever-block 21 has an upper end 23 with which the inner end of the trigger-member F is engageable, and has a lower end 24, which engages the recess 19, of the blocking member 16, the end 24 being rounded or of such form as to be capable of moving or sliding slightly in the recess 19, the intention being that when the grip-operable or grip-safety member G is grip-compressed and the end of the trigger member F is brought into engagement with the upper end 23 of the lever-block to move the end 23 rearwardly, the lower end 24 will be moved forwardly and because of its engagement with the recess 19, will move the blocking member 16 forwardly so that the end-face 18 thereof is disengaged from the end-face or bottom-side 14^c of the slidable member or controller N.

The grip-operable or grip-safety member G closes the space 2^s in the grip-stock, and is provided at its lower end with a base 26 which is attached to the grip-stock by a pivot-pin *g*. The grip-operable or grip-safety member G is engageable at its upper end G′ with the frame or receiver of the pistol, and is releasable from such engagement by grip-compression, the grip-operable or grip-safety member being yieldable or hand compressible. The base 26 of the grip-operable or grip-safety member G is provided with a recess 27 which receives or

forms a seat for the lower end of the main spring or firing spring 8^e.

The plunger 8^c is arranged to slide in the bracket 17 mounted on the grip-operable or grip-safety member G, and is provided at its upper end with ears 28, and at its lower end with a stem or spindle 29, Fig. 5. The upper end of the spring 8^e surrounds the stem or spindle 29, which forms an abutment for the spring 8^e, the pressure of the spring 8^e being upward.

The rocker-lever 30, is pivotally attached to the ears 28 of the plunger 8^c and is provided with an upper rear end having a cupped recess 31, which receives or forms the seat for a rod 8^b hereinafter described. The rocker-lever 30 is provided with a lower front-end face 32, which engages the terminal end-face 15 of the slidable member or controller N, to move the member N upwardly into locking position when the end-face 32 is moved upwardly by movement or rocking of the rocker-lever.

The rod 8^b is pivotally attached at its upper end to the firing member or hammer H, and the lower end thereof is received or seated in the cupped recess 31 of the rocker-lever 30, said lower end being rounded or otherwise suitably formed to afford a ball and socket movement between said lower end and the rocker-lever 30. A line drawn from the center of the pivotal attachment of the rod 8^b to the firing member or hammer H through the center of the lower end of said rod in the cupped recess 31 of the rocker-lever 30, will pass to the rear of the pivot pin *g* which attaches the grip-operable or grip-safety member G to the grip-stock, the effect of this arrangement being, through pressure of the spring 8^e, to retain the end G′ of the member G in engagement with the frame of the pistol or to retain the grip-operable or grip-safety member in position of safety, when the firing member or hammer H is in firing position. When the firing member or hammer H is in fired position this line will pass forward of the pivot pin *g*, the effect of this being that the spring 8^e then has a tendency to hold the grip-operable or grip-safety member G in forward or grip-compressed position and thus to neutralize the reaction or sting of the spring 8^e on the member G upon sudden arresting of the firing member or hammer H when actuated by the spring 8^e.

A tension spring 33, carried by the grip-operable or grip-safety member G, engages the end-face 17^d of the sear member S to retain the sear member S in position for engagement or contact therewith of the end of the trigger-member F when the firing member or hammer H is in firing position, and to retain the locking shoulder 17^b of the sear-member in engagement with the cock-notch 8^j when the firing member or hammer is in firing position. A spring contactor 33′ carried by the grip-operable or grip-safety member G, engages the lever-block 21, to retain the lever-block in position for engagement of the trigger member F therewith.

The trigger-member F is movable forwardly by means not shown, and by pull thereon is movable rearwardly, and is received in the slot 13 of the slidable member or controller N. The trigger member F is provided with an end face 34 which is intended to engage or contact with the upper end 23 of the lever-block 21, and is provided with an inclined face 35, which is intended to engage or contact with the end-face 17^d of the sear member S, the arrangement being such that the end-face 34 will first engage or contact with the upper end 23 of the lever-block to move the lever-block, and that the inclined face 35 will subsequently engage or contact with the end-face 17^d of the sear member to move the sear member.

In operation, the firing member or hammer H being in firing position and the grip-operable or grip-safety member G in position of safety and the slidable member or controller N being blocked in upward locking position by the blocking member 16, Fig. 1, grip-compression of the grip-operable or grip-safety member G moves the blocking member 16 forwardly so that the blocking member 16 engages the slidable member or controller N as shown in Fig. 2, the slidable member or controller still being blocked in upward locking position. Pull on the trigger member F first engages or brings into contact the end-face thereof with the upper end of the lever block 21, to move such upper end rearwardly, thereby moving the lower end of the lever-block forwardly to move the blocking member forwardly, and thus disengages the blocking member from the slidable member or controller N and permits movement of the slidable member or controller downwardly to unlocking position, Fig. 3. The pull on the trigger member F subsequently engages the inclined face 35 of the trigger member with the end-face 17^d of the sear member S, and moves the sear member to release the firing member or hammer H which is moved to fired position by the spring 8^e. As the firing member or hammer is moved from firing position to fired position the eccentric cam face 8^j thereof engaging the face 17^n of the sear member S moves the arm S^{10} of the sear member downwardly which, by engagement with the upper surface of the shoulder 14^p of the slidable member or controller N, moves the slidable member or controller downwardly to unlocking position and permits discharge of the pistol.

The slidable member or controller N is moved upwardly, or to locking position by pressure of the main spring or firing spring 8^e through movement of the firing member

or hammer H from fired position to firing or cocked position. Movement of the firing member or hammer from fired position to firing position forces the rod 8^b downwardly in the cupped recess 31, of the rocker-lever 30 against the compression of the spring 8^e which moves the other end 32 of the rocker-lever upwardly, and the upper end 32 of the rocker-lever being in engagement with the terminal end-face 15 of the slidable member or controller N moves the slidable member or controller upwardly, or into position for locking the sear member and firing member in firing position, and locking the sliding breech action of the pistol against rearward movement.

Release from trigger pull and grip-compression permits movement of the grip-operable or grip-safety member G to engagement with the frame, or to position of safety, and moves the blocking member 16 rearwardly until the end-face 18 thereof is in engagement with the end-face or bottom-side 14^c of the slidable member or controller N and blocks the slidable member or controller in locking position.

Having thus described my invention, I claim:

1. In a firearm, in combination, a frame of said firearm, a firing member movable to firing position and to fired position, sear means engageable with said firing member, slidable means, a grip-compressible member engageable with said frame when in position of safety, and releasable from said engagement by grip-compression, spring means for moving said firing member to fired position, means actuated by said spring means for moving said slidable means in a direction to lock said sear means and firing member in firing position, means for moving said slidable means in a reverse direction when said grip-compressible member is grip-compressed and said firing member is moved to fired position, means engageable with said grip-compressible member and said slidable means for blocking the slidable means in said locking position, and movable by grip-compression of the grip-compressible member, lever means movable by said grip-compressible member and engaging said means for blocking and engageable with trigger means, and trigger means arranged to engage first said lever means, when said grip-compressible member is grip-compressed, to move said blocking means for releasing said slidable means for movement from said locking position, and to engage subsequently said sear means for releasing said firing member for movement to fired position.

2. In a firearm, in combination, a sliding breech action of said firearm, a frame of said firearm, a firing member movable to firing position and to fired position, sear means engageable with said firing member, slidable means engageable with said sliding breech action, a grip-compressible member engageable with said frame when in position of safety, and releasable from said engagement by grip-compression, spring means for moving said firing member to fired position, means actuated by said spring means for moving said slidable means in a direction to lock said sliding breech action, and lock said sear means and firing member in firing position, means for moving said slidable means in a reverse direction when said grip-compressible member is grip-compressed and said firing member is moved to fired position, means engageable with said grip-compressible member and said slidable means for blocking the slidable means in said locking position, and movable by grip-compression of the grip-compressible member, lever means movable by said grip-compressible member and engaging said means for blocking and engageable with trigger means, and trigger means arranged to engage first said lever means, when said grip-compressible member is grip-compressed, to move said blocking means for releasing said slidable means for movement from said locking position, and to engage subsequently said sear means for releasing said firing member for movement to fired position.

3. In a firearm, in combination, a frame of said firearm, a firing member movable to firing position and to fired position, sear means engageable with said firing member, slidable means, means for guiding said slidable means in its sliding movement and preventing shifting thereof, a grip-compressible member engageable with said frame when in position of safety, and releasable from said engagement by grip-compression, spring means for moving said firing member to fired position, lever means actuated by said spring means when said firing member is moved to firing position for moving said slidable means in a direction to lock said sear means and firing member in firing position, means for moving said slidable means in a reverse direction when said grip-compressible member is grip-compressed and said firing member is moved to fired position, means engageable with said grip-compressible member and said slidable means for blocking the slidable means in said locking position when said grip-compressible member is in position of safety, and movable by grip-compression of the grip-compressible member, lever means movable by said grip-compressible member and engaging said means for blocking and engageable with trigger means, and trigger means arranged to engage first said lever means, when said grip-compressible member is grip-compressed, to move said blocking means for releasing said slidable means for movement from said locking position, and to engage subsequently said sear means for

releasing said firing member for movement to fired position.

4. In a firearm, in combination, a sliding breech action of said firearm, a frame of said firearm, a firing member movable to firing position and to fired position, sear means engageable with said firing member, slidable means engageable with said sliding breech action, means for guiding said slidable means in its sliding movement and preventing shifting thereof, a grip-compressible member engageable with said frame when in position of safety, and releasable from said engagement by grip-compression, spring means for moving said firing member to fired position, lever means actuated by said spring means when said firing member is moved to firing position for moving said slidable means in a direction to lock said sliding breech action, and lock said sear means and firing member in firing position, means for moving said slidable means in a reverse direction when said grip-compressible member is grip-compressed and said firing member is moved to fired position, means engageable with said grip-compressible member and said slidable means for blocking the slidable means in said locking position when said grip-compressible member is in position of safety, and movable by grip-compression of the grip-compressible member, lever means movable by said grip-compressible member and engaging said blocking means and engageable with trigger means, and trigger means arranged to engage first said lever means, when said grip-compressible member is grip-compressed, to move said blocking means for releasing said slidable means for movement from said locking position, and to engage subsequently said sear means for releasing said firing member for movement to fired position.

5. In a firearm, in combination, a frame of said firearm comprising a grip-stock, a firing member movable to firing position and to fired position, a sear member engageable with said firing member, a slidable member, means for guiding said slidable member in its sliding movement and preventing shifting thereof, a grip-operable member pivotally attached at an end thereof to said grip-stock, and engageable at the other end thereof with said frame when in position of safety, and releasable by grip-compression from said engagement, spring means carried by said grip-operable member to move said sear member to position for engagement therewith of a trigger-member when said firing member is moved to firing position, spring means for moving said firing member to fired position, and affording grip-compression of the grip-operable member, and for returning the grip-operable member to position of safety after grip-compression, lever means actuated by said last mentioned spring means when said firing member is moved to firing position for moving said slidable member in a direction to lock said sear means and firing member in firing position, means for moving said slidable member in a reverse direction when said grip-operable member is grip-compressed and said firing member is moved to fired position, means engageable with said grip-operable member and with said slidable member for blocking the slidable member in said locking position when said grip-operable member is in position of safety, and movable by grip-compression of the grip-operable member, lever means movable by said grip-operable member and engaging said means for blocking and engageable with a trigger member, and a trigger member arranged to engage first said lever means, when said grip-operable member is grip-compressed, to move said blocking means for releasing said slidable member for movement from said locking position, and to engage subsequently said sear member for releasing said firing member for movement to fired position.

6. In a firearm, in combination, a sliding breech action of said firearm, a frame of said firearm comprising a grip-stock, a firing member movable to firing position and to fired position, a sear member engageable with said firing member, a slidable member engageable with said sliding breech action, means for guiding said slidable member in its sliding movement and preventing shifting thereof, a grip-operable member pivotally attached at an end thereof to said grip-stock, and engageable at the other end thereof with said frame when in position of safety, and releasable by grip-compression from said engagement, spring means carried by said grip-operable member to move said sear member to position for engagement therewith of a trigger member when said firing member is moved to firing position, spring means for moving said firing member to fired position, and affording grip-compression of the grip-operable member, and for returning the grip-operable member to position of safety after grip-compression, lever means actuated by said last mentioned spring means when said firing member is moved to firing position for moving said slidable member in a direction to lock said sear means and firing member in firing position, means for moving said slidable member in a reverse direction when said grip-operable member is grip-compressed and said firing member is moved to fired position, means engageable with said grip-operable member and with said slidable member for blocking the slidable member in said locking position when said grip-operable member is in position of safety, and movable by grip-compression of the grip-operable member, lever

means movable by said grip-operable member and engaging said means for blocking and engageable with a trigger member, and a trigger member arranged to engage first said lever means, when said grip-operable member is grip-compressed, to move said blocking means for releasing said slidable member for movement from said locking position, and to engage subsequently said sear member for releasing said firing member for movement to fired position.

7. In a firearm, in combination, a frame of said firearm comprising a grip-stock, a firing hammer movable to firing position and to fired position and provided with a cock-notch and an eccentric cam face, a slidable controller provided with a shoulder having an upper engaging surface and having means for receiving a trigger member, and having a bottom-side, and provided with an end-face, guide-face and pin means for guiding said slidable controller and preventing shifting thereof, a sear member provided with a locking shoulder for engaging said cock-notch and provided with a face for engaging said eccentric cam face, and with an arm for engaging said upper surface of said shoulder of the slidable controller, and provided with a rear face, and with an end face, a grip-safety member pivotally attached at an end thereof to said grip-stock and engageable at the other end thereof with said frame when in position of safety, and releasable by grip-compression from said engagement, a spring carried by said grip-safety member and engaging the rear face of said sear member, a plunger carried by said grip-safety member and provided with upwardly extending ears and a downwardly extending stem, a spring seated in said grip-safety member and surrounding said stem and abutting the under side of said plunger, a rocker-lever pivotally attached to said ears of the plunger and provided with a cupped upper end, and provided with a forwardly extending lower end for engaging said end-face of the slidable controller, a blocking member pivotally attached to said grip-safety member and provided with a recess, and with an end-face for engaging said bottom side of the slidable controller, and provided with an end for engaging said grip-safety member, a rod pivotally attached at the upper end thereof to said firing hammer and seated at the lower end thereof in said cupped end of the rocker-lever, a lever-block pivotally attached to said grip-safety member and engaging at the lower end thereof said recess of the blocking-member, a contactor carried by said grip-safety member for engaging the upper end of said lever-block, and a trigger member received in said slidable controller and provided with an end-face for engaging the upper end of said lever-block, and an inclined face for engaging said end-face of the sear member.

8. In a firearm, in combination, a sliding breech action of said firearm, a frame of said firearm comprising a grip-stock, a firing hammer movable to firing position and to fired position and provided with a cock-notch and an eccentric cam face, a slidable controller having an end for engaging said sliding breech action, and provided with a shoulder having an upper surface and having means for receiving a trigger member and having a bottom-side, and provided with an end-face, guide-face and pin means for guiding said slidable controller and preventing shifting thereof, a sear member provided with a locking shoulder for engaging said cock-notch and provided with a face for engaging said eccentric cam face, and with an arm for engaging said upper surface of the shoulder of the slidable controller, and provided with a rear face, and with an end-face, a grip-safety member pivotally attached at an end thereof to said grip-stock, and engageable at the other end thereof with said frame when in position of safety, and releasable by grip-compression from said engagement, a spring carried by said grip-safety member and engaging the rear face of said sear member, a plunger carried by said grip-safety member and provided with upwardly extending ears and a downwardly extending stem; a spring seated in said grip-safety member and surrounding said stem and abutting the under side of said plunger, a rocker-lever pivotally attached to said ears of the plunger and provided with a cupped upper end, and provided with a forwardly extending lower end for engaging said end-face of the slidable controller, a blocking member pivotally attached to said grip-safety member and provided with a recess, and with an end-face for engaging said bottom-side of the slidable controller, and provided with an end for engaging said grip-safety member, a rod pivotally attached at the upper end thereof to said firing hammer and seated at the lower end thereof in said cupped end of the rocker-lever, a lever-block pivotally attached to said grip-safety member and engaging at the lower end thereof said recess of the blocking-member, a contactor carried by said grip-safety member for engaging the upper end of said lever-block, and a trigger member received in said slidable controller and provided with an end-face for engaging the upper end of said lever-block, and an inclined face for engaging said end-face of the sear member.

9. In a firearm, in combination, a firing member movable to firing position and to fired position, slidable means, grip-compressible means, plunger means carried by said grip-compressible means, a spring con-

nected to said grip-compressible means with tension against said plunger means, rocker-means on said plunger means, and engaging said slidable means, and means pivotally attached to said firing member and engaging said rocker means, whereby when said firing member is moved to firing position, said slidable means is moved slidably by pressure of said spring.

10. In a firearm, in combination, a sliding breech action of said firearm, a firing member movable to firing position and to fired position, slidable means engageable with said sliding breech action, grip-compressible means, a spring connected to said grip-compressible means with tension against said plunger means, rocker means on said plunger means and engaging said slidable means, and means pivotally attached to said firing member and engaging said rocker means, whereby when said firing member is moved to firing position, said slidable means is moved by pressure of said spring to engage said sliding breech action.

11. In a firearm, in combination, a firing member movable to firing position and to fired position, slidable means, a grip-compressible member, a plunger carried by said grip-compressible member, a spring connected to said grip-compressible member and abutting said plunger, a rocker-lever pivotally attached to said plunger and engaging said slidable means, and a rod pivotally attached to said firing member and engaging said rocker lever.

12. In a firearm, in combination, a sliding breech action of said firearm, a firing member movable to firing position and to fired position, slidable means engageable with said sliding breech action, a grip-compressible member, a plunger carried by said grip-compressible member, a spring connected to said grip-compressible member and abutting said plunger, a rocker-lever pivotally attached to said plunger and engaging said slidable means, and a rod pivotally attached to said firing member and engaging said rocker-lever.

13. In a firearm, in combination, a firing member movable to firing position and to fired position, a slidable member, a grip-compressible member, a plunger provided with upwardly extending ears and a downwardly extending stem, means carried by said grip-compressible member for providing sliding connection of said plunger to said grip-compressible member, a spring seated in said grip-compressible member and surrounding said stem and abutting said plunger, a rocker-lever pivotally attached to said ears of the plunger and provided with a cupped end, and engaging said slidable member, and a rod pivotally attached to said firing member and seated in said cupped end of the rocker-lever.

14. In a firearm, in combination, a sliding breech action of said firearm, a firing member movable to firing position and to fired position, a slidable member engageable with said sliding breech action, a grip-compressible member, a plunger provided with upwardly extending ears and a downwardly extending stem, means carried by said grip-compressible member for providing sliding connection of said plunger to said grip-compressible member, a spring seated in said grip-compressible member and surrounding said stem and abutting said plunger, a rocker-lever pivotally attached to said ears of the plunger and provided with a cupped end, and engaging said slidable member, and a rod pivotally attached to said firing member and seated in said cupped end of said rocker-lever.

15. In a firearm, in combination, a frame of said firearm, slidable means, a grip-compressible member engageable with said frame when in position of safety and releasable from said engagement by grip-compression, pivotal means carried by said grip-compressible member and engageable with said slidable means when said grip-compressible member is in position of safety, to block said slidable means, and movable in said blocking engagement by grip-compression of the grip-compressible member, means carried by the grip-compressible member and engaging said pivotal blocking-means, and trigger means engageable by pull thereon, when said grip-compressible member is grip-compressed, with said last mentioned means, for releasing said pivotal blocking-means from engagement with said slidable means.

16. In a firearm, in combination, a frame of said firearm, slidable means, a grip-compressible member engageable with said frame when in position of safety and releasable from said engagement by grip-compression, pivotal means carried by said grip-compressible member and engageable with said slidable means when said grip-compressible member is in position of safety, to block said slidable means, and movable in said engagement by grip-compression of the grip-compressible member, means carried by said grip-compressible member and engaging said pivotal blocking means, trigger means engageable by pull thereon, when said grip-compressible member is grip-compressed, with said means carried by the grip-compressible member which engage said pivotal-blocking means, and means for maintaining said means which engage said pivotal blocking-means in position for engagement therewith of said trigger means.

17. In a firearm, in combination, a frame of said firearm, comprising a grip-stock, a slidable controller, a grip-operable member pivotally attached to said grip-stock and engageable with said frame when in position

of safety, and releasable from said engagement by grip-compression, a blocking-member pivotally attached to said grip-operable member and provided with means for engaging said slidable controller when said grip-operable member is in position of safety, and movable in said engagement by grip-compression of the grip-operable member, and provided with a recess, and provided with an end for engaging said grip-operable member, a lever-block pivotally attached to said grip-operable member and engaging at an end thereof said recess of the blocking-member, and a trigger member provided with means for engaging said lever-block by pull on the trigger member, when said grip-operable member is grip-compressed.

18. In a firearm, in combination, a frame of said firearm comprising a grip-stock, a slidable controller, a grip-operable member pivotally attached to said grip-stock and engageable with said frame when in position of safety, and releasable from said engagement by grip-compression, a blocking member pivotally attached to said grip-operable member and provided with means for engaging said slidable controller when said grip-operable member is in position of safety, and movable in said engagement by grip-compression of the grip-operable member, and provided with a recess, and provided with an end for engaging said grip-operable member, a lever-block pivotally attached to said grip-operable member and engaging at an end thereof said recess of the blocking-member, a trigger member provided with means for engaging said lever-block by pull on the trigger member, when said grip-operable member is grip-compressed, and a contactor carried by said grip-operable member and engaging said lever-block.

19. In a firearm, in combination, a frame of said firearm, a firing member movable to firing position and to fired position, slidable means, sear means engageable with said firing member and engageable with said slidable means, a grip-compressible member engageable with said frame when in position of safety, and releasable from said engagement by grip-compression, pivotal blocking-means carried by said grip-compressible member and engageable with said slidable means when the grip-compressible member is in position of safety, and movable in said engagement by grip-compression of the grip-compressible member, means carried by the grip-compressible member and engaging said pivotal blocking-means, and trigger means first engageable by pull thereon, when said grip-compressible means is grip-compressed, with said last mentioned means to release said slidable means for movement slidably, and subsequently engageable with said sear means for releasing said firing member for movement to fired position, and moving said slidable means slidably as said firing member is moved to fired position.

20. In a firearm, in combination, a frame of said firearm, a firing member movable to firing position and to fired position, slidable means, sear means engageable with said firing member and engageable with said slidable means, a grip-compressible member engageable with said frame when in position of safety, and releasable from said engagement by grip-compression, pivotal blocking-means carried by said grip-compressible member and engageable with said slidable means when the grip-compressible member is in position of safety, and movable in said engagement by grip-compression of the grip-compressible member, means carried by the grip-compressible member and engaging said pivotal blocking-means, trigger means first engageable by pull thereon, when said grip-compressible member is grip-compressed, with said means carried by the grip-compressible member which engage said pivotal blocking-means, and subsequently engageable with said sear means.

21. In a firearm, in combination, a frame of said firearm comprising a grip-stock, a firing member movable to firing position and to fired position, a slidable controller, a sear member engageable with said firing member and engageable with said slidable controller, a grip-operable member pivotally attached to said grip-stock and engageable with said frame when in position of safety, and releasable from said engagement by grip-compression, a blocking member pivotally attached to said grip-operable member and provided with means for engaging said slidable controller when said grip-operable member is in position of safety, and movable in said engagement by grip-compression of the grip-operable member, and provided with a recess, and provided with an end for engaging said grip-operable member, a lever-block pivotally attached to said grip-operable member and engaging at an end thereof said recess of the blocking member, and a trigger member first engageable by pull thereon with said lever block when said grip-operable member is grip-compressed, and subsequently engageable with said sear member.

22. In a firearm, in combination, a frame of said firearm comprising a grip-stock, a firing member movable to firing position and to fired position, a slidable controller, a sear member engageable with said firing member and engageable with said slidable controller, a grip-operable member pivotally attached to said grip-stock and engageable with said frame when in position of safety, and releasable from said engagement by grip-compression, a blocking member pivotally at-

tached to said grip-operable member and provided with means for engaging said slidable controller when said grip-operable member is in position of safety, and movable in said engagement by grip-compression of the grip-operable member, and provided with a recess, and provided with an end for engaging said grip-operable member, a lever-block pivotally attached to said grip-operable member and engaging at an end thereof said recess of the blocking-member, a trigger member first engageable by pull thereon, with said lever-block, when said grip-operable member is grip-compressed, and subsequently engageable with said sear member, and a contactor carried by said grip-operable member and engaging said lever-block.

23. In a firearm, in combination, a frame of said firearm comprising a grip-stock, a firing member movable to firing position and to fired position, a slidable controller, a sear member engageable with said firing member and engageable with said slidable controller, a grip-operable member engageable with said frame when in position of safety, and releasable from said engagement by grip-compression, a blocking-member pivotally attached to said grip-operable member and provided with means for engaging said slidable controller when said grip-operable member is in position of safety, and movable in said engagement by grip-compression of the grip-operable member, and provided with a recess, and provided with an end for engaging said grip-operable member, a lever-block pivotally attached to said grip-operable member and engaging at an end thereof said recess of the blocking-member, a trigger member first engageable by pull thereon with said lever-block when said grip-operable member is grip-compressed, and subsequently engageable with said sear member, a spring carried by said grip-operable member and engaging said sear member, and a contactor carried by said grip-operable member and engaging said lever-block.

JOHN D. PEDERSEN.

Witnesses:
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GEORGE J. BARTELS.