No. 839,938. PATENTED JAN. 1, 1907.

P. LISTER.

FIREARM.

APPLICATION FILED JAN. 23, 1906.

2 SHEETS—SHEET 1.

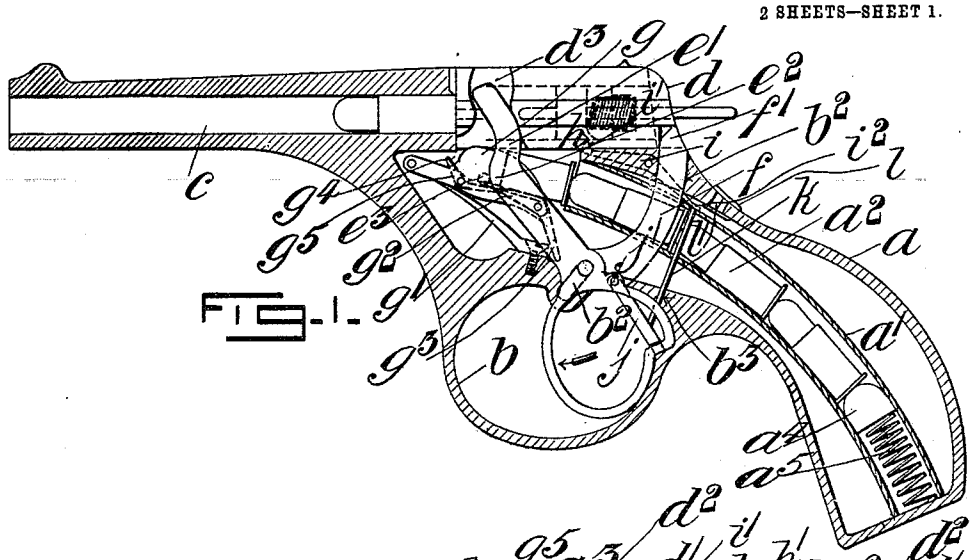


FIG. 1.

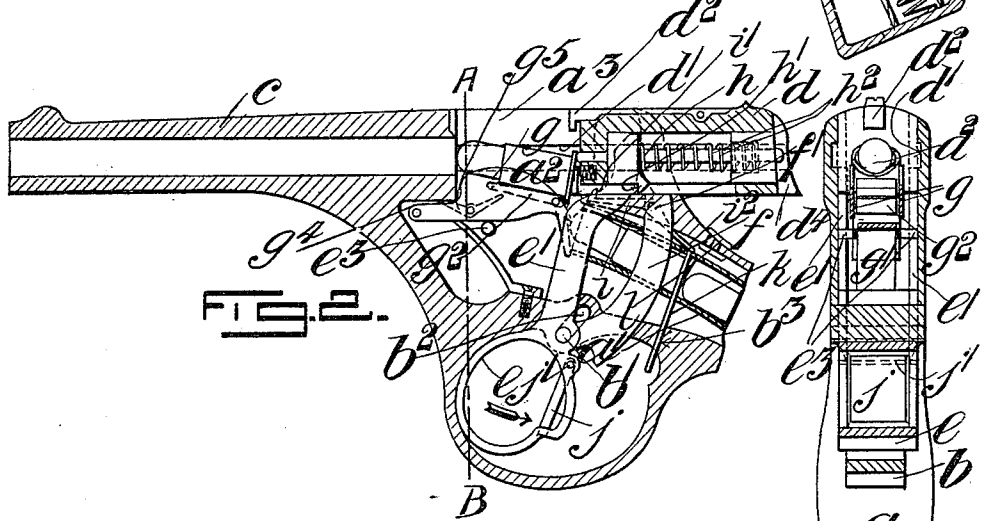


FIG. 2.

FIG. 3.

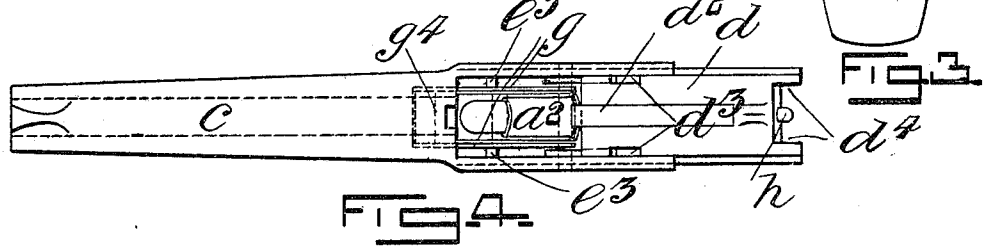


FIG. 4.

Witnesses
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2 SHEETS—SHEET 2.

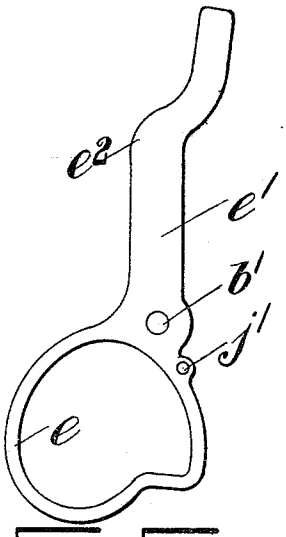


FIG. 5.

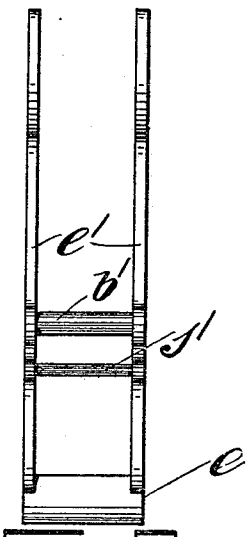


FIG. 6.

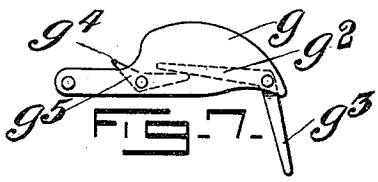


FIG. 7.

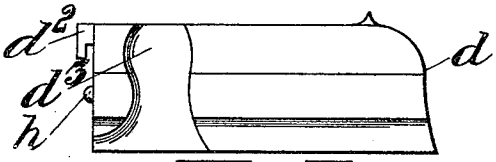


FIG. 9.

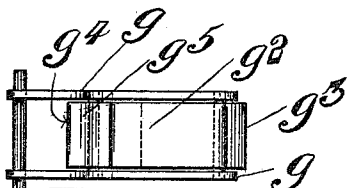


FIG. 8.

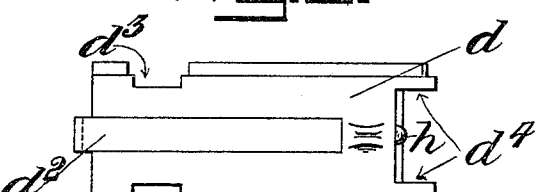


FIG. 10.

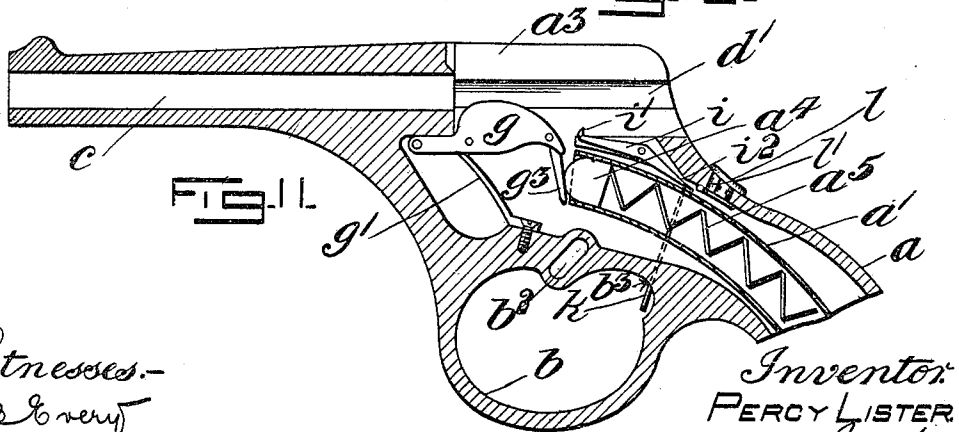


FIG. 11.

Witnesses.-
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THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

PERCY LISTER, OF NOTTINGHAM, ENGLAND.

FIREARM.

No. 839,938. Specification of Letters Patent. Patented Jan. 1, 1907.

Application filed January 23, 1906. Serial No. 297,426.

To all whom it may concern:

Be it known that I, PERCY LISTER, a subject of the King of Great Britain, residing at Nottingham, in the county of Nottingham, England, have invented a new and useful Improvement in Firearms, of which the following is a specification.

This invention relates to improvements in firearms, and has for its object to provide a hammerless repeating-pistol in which all the necessary and usual operations—such as extracting and ejecting the spent cartridge-case, reloading from a magazine, cocking, locking the breech-bolt, and firing (at will)—are performed by the movements of a double-ended finger-lever.

In order that this my said invention may be more readily understood and carried into practical effect, reference is hereby made to the accompanying sheet of illustrative drawings, wherein—

Figure 1 is a sectional elevational view of a pistol constructed in accordance with my invention, the breech-bolt being shown in front elevation in its closed position. Fig. 2 is a similar view of the pistol mechanism with the breech in section and in its open position. Fig. 3 is a sectional view through line A B of Fig. 2. Fig. 4 is a plan view of Fig. 2. Fig. 5 is a front elevational view of the operating-lever. Fig. 6 is a side elevational view thereof. Figs. 7 and 8 are side elevational and plan views, respectively, of the cartridge-carrier. Figs. 9 and 10 are side elevational and plan views of the breech-bolt, while Fig. 11 is a longitudinal vertical central section through the firearm-frame, the operating-lever, the locking-bolts, and the breech-bolt being omitted.

Referring to the drawings, wherein like letters of reference indicate corresponding parts wherever occurring, *a* represents the stock, *b* the trigger-guard, and *c* the barrel, of a pistol.

Within the stock *a* I provide a tubular magazine a', into which the cartridges a^2 are introduced through the breech a^3 one after the other in opposition to the follower a^4, mounted on the spring a^5.

When the magazine a' is charged and a spent cartridge occupies the firing-chamber, with the breech-bolt *d* in its closed and locked position, as shown in Fig. 1, it is necessary to extract and eject the spent cartridge to enable another from the magazine to take its place in the breech and be pushed by the breech-bolt into the firing-chamber. These operations are effected in the following manner: I mount the breech-bolt *d* to slide in grooves d' in the body of the pistol, and I provide the said breech-bolt *d* with the usual cartridge-extracting claw d^2, which when the breech-bolt is in its closed position is engaged with the flange of the cartridge. Suitably pivoted at b' in a slot b^2 in the body of the pistol I provide a finger-operating lever *e* such lever *e* being bifurcated at its upper end, each of the furcations e' being engaged in recesses d^3, provided on either side of the breech-bolt *d*. Loosely mounted on the same pivot b' I provide two breech-bolt locking-bolts *f*, one on either side of the breech-bolt, which locking-bolts *f* operate through slots b^2 in the pistol-body, and the ends f' engage in suitable recesses d^4 in the end of the breech-bolt *d* when the latter is in its closed position.

In operation when the breech is closed, as in Fig. 1, and the cartridge in the firing-chamber has been fired the finger-lever *e* is pushed forward in the direction of the arrow in Fig. 1. The first movement draws the upper ends f' of the locking-bolts *f* out of the recesses d^4 in the end of the breech-bolt *d*, which latter is consequently unlocked and simultaneously the ends of the furcations e' of the lever *e* exert a multiplied pressure on the breech-bolt and consequently upon the cartridge being extracted by its being fulcrumed at e^2 against suitable projections e^3 on the side plates. This withdrawal of the breech-bolt causes the extraction and ejection of the spent cartridge in the usual manner. The removal of the spent cartridge and the breech-bolt allows the spring g' to raise the pivoted bifurcated member *g* to the position shown in Fig. 2, the depending end g^3 of which member *g* closes the magazine a' immediately the said member *g* rises under the influence of the spring g'. Pivoted between the furcations of the member *g* I arrange a pivoted cartridge-platform g^2. As the member *g* aforesaid rises the end g^4 of the lever g^5, pivoted between the furcations of the member *g*, contacts with the wall of the pistol-body, elevating the other end, which lies beneath the pivoted cartridge-platform g^2. By this means the cartridge carried upon the platform g^2 is

tilted into its correct position ready to be pushed into the firing-chamber by the breech-bolt *d*. If the finger-operating lever *e* is now operated in the direction of the arrow shown in Fig. 2, the breech-bolt *d* is partially shot by the movement of the furcations *e'*, engaged in the recesses d^3. The movement of the finger-lever *e* being continued the pivot *b'* forces the locking-bolts *f* upward by sliding up the slot b^2, the wedge-shaped ends *f'* engaging in the recesses of the breech-bolt end d^4, thus forcing the breech-bolt *d* forward into the closed position, Fig. 1, and locking the said breech-bolt against the force of the explosion, and at the same time canting the ends of the furcations *e'* of the lever *e* upon the fulcrum e^3.

It will be readily understood from the foregoing that the lever *e* in the opening movement becomes fulcrumed firstly at e^2 then at the bottom of the slot b^2 by the pivot *b'* and in the reverse movement of the lever *e* the pivot *b'* fulcrums on the bottom end of the locking-levers *f* on which it is hinged and still at the bottom of the slot b^2.

It will also be understood that the breech-bolt in its closing movement operates to depress the member *g* to the position shown in Fig. 1, thus enabling a cartridge from the magazine *a'* to take the place of the one previously there.

The cocking and firing are effected as follows: As the breech-bolt *d* is pushed in, the catch *h'*, carried on the body of the firing-pin *h* and depending through a slot in the bottom of the breech-bolt, engages the catch *i'* of the sear *i*, and as a consequence the firing-pin *h* is drawn back in opposition to the spring h^2, the rear end of the said firing-pin *h* protruding through a hole in the rear wall of the breech-bolt, thus indicating that the pistol is cocked. The firing is effected by the trigger-lever *j*, pivoted at *j'* to the finger-lever *e*, being operated to raise the rod *k*, located and guided in the slot b^3 in the body of the pistol, which operation can at will be either the final closing movement of the finger-lever *e* or a subsequent independent movement. The upper end of this rod *k* raises the end i^2 of the sear *i*, depressing the catch end and moving the catch *i'* out of engagement with the catch *h'* of the firing-pin, enabling the latter to shoot forward and fire the cartridge.

A safety-block *l*, sliding at will in the slot *l'* in the body of the pistol, locks the sear *i* either when engaged with the catch *h'*, enabling the pistol to be carried cocked with safety, or before engaging, whereby the breech may be closed without the firing-pin being cocked.

What I claim, and desire to secure by Letters Patent of the United States, is—

1. In improvements in firearms, the means for automatically introducing the cartridges into the breech, said means consisting of the combination with a hollow stock, of a tubular cartridge-magazine within said stock, a spring-operated follower within said magazine for projecting the cartridges, a pivoted bifurcated member, a depending end on said pivoted bifurcated member, a cartridge-platform pivoted to said bifurcated member, a spring operating to raise the said bifurcated pivoted member, a pivoted lever carried by the pivoted bifurcated member, one end of which is arranged to contact with the pistol-body to elevate the other end which lies beneath one end of the pivoted cartridge-platform, substantially as specified.

2. In improvements in firearms, the means for operating the breech-bolt consisting of the combination with a sliding breech-bolt of recesses on either side of said breech-bolt, of a bifurcated finger-operating lever, the furcations of which operate in said recesses in said breech-bolt; the pin on which said finger-operating lever is pivoted, the slot in the body of the firearm in which said pin operates; of breech-locking bolts hinged on said pin, of slots in the pistol-body through which said breech-locking bolts operate and of recesses in the end of said breech-bolt in which the upper ends of the locking-bolts engage, substantially as specified.

3. In improvements in firearms, the means for firing consisting of the combination with a breech-bolt finger-operating lever, of a trigger pivoted to said finger-lever; a transmitting-rod operating through a slot in the firearm-body; a sear adapted to be operated by said transmitting-rod, a catch on said sear normally engaged with a catch depending from the body of the firing-pin and arranged to be released when the trigger aforesaid is operated, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

PERCY LISTER.

Witnesses:
C. BETHZE,
F. J. BEARD.