(No Model.)

2 Sheets—Sheet 1.

A. NYGREN.

MAGAZINE PISTOL.

No. 597,588. Patented Jan. 18, 1898.

Fig 1.

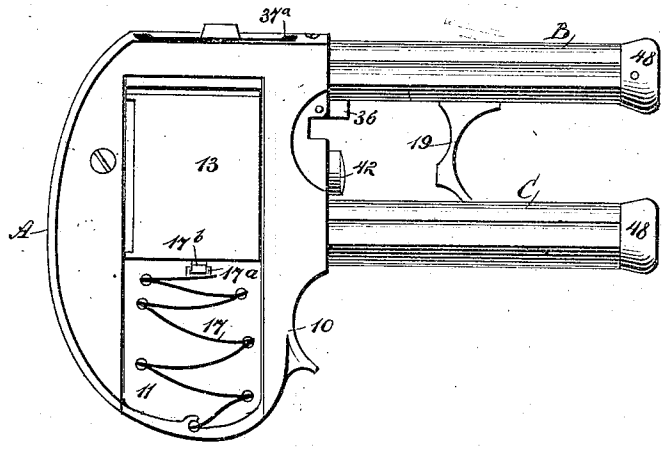


Fig 2.

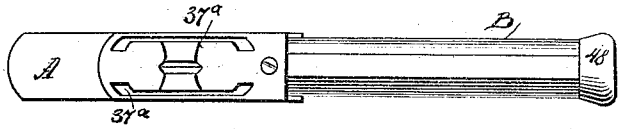
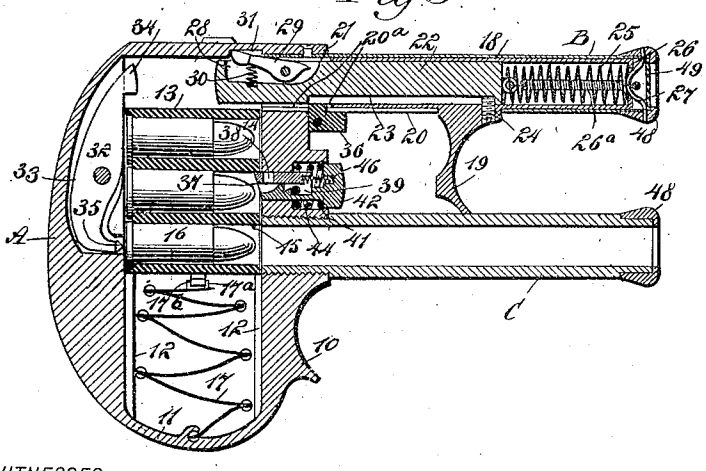


Fig 3.



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(No Model.) 2 Sheets—Sheet 2.

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MAGAZINE PISTOL.

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Fig 4

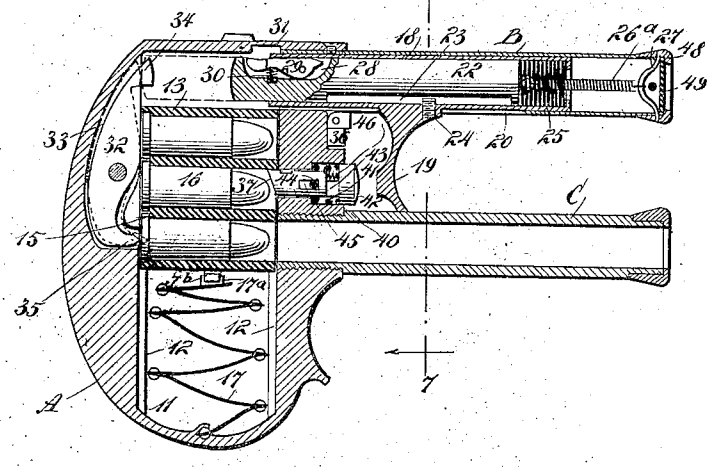


Fig 7.

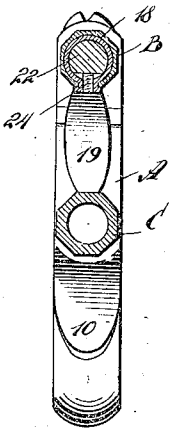


Fig 5

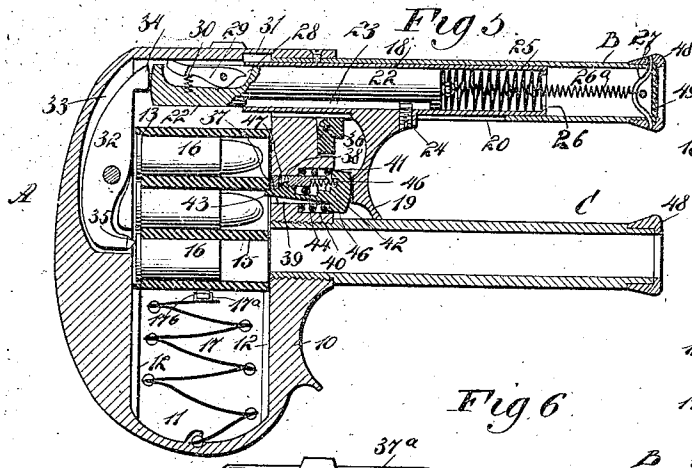


Fig 8.

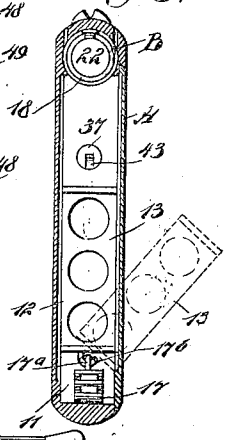
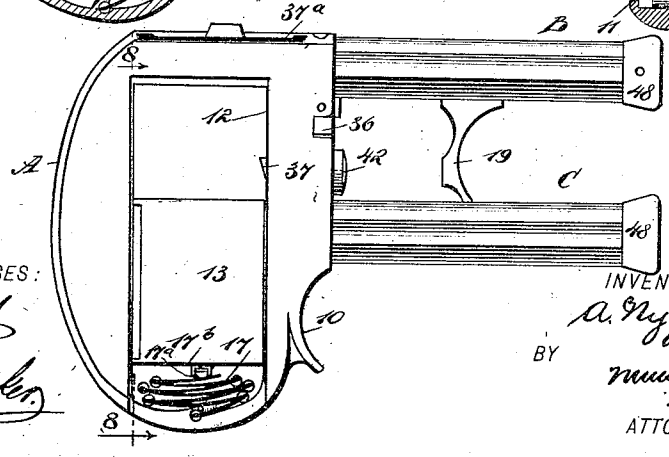


Fig 6



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AUGUST NYGREN, OF ELIZABETH, MINNESOTA.

MAGAZINE-PISTOL.

SPECIFICATION forming part of Letters Patent No. 597,588, dated January 18, 1898.

Application filed April 1, 1897. Serial No. 630,203. (No model.)

To all whom it may concern:

Be it known that I, AUGUST NYGREN, of Elizabeth, in the county of Otter Tail and State of Minnesota, have invented a new and useful Improvement in Firearms, of which the following is a full, clear, and exact description.

The object of my invention is to provide a pistol which may be carried about the person with little danger of detection and which may be held more steady than the ordinary pistol when firing; and another object of the invention is to construct a pistol which is particularly adapted for use by bicyclists, pedestrians, and other persons having their garments fitted somewhat tightly to the body.

Another object of the invention is to construct a repeating pistol which will be flat and wherein two barrels will be provided, one being provided for the egress of the ball, the other carrying the bolt mechanism, and to locate the trigger between the two barrels.

Another object of the invention is to provide a simple and compact feed device which will present a cartridge each time that the trigger is pulled and released, thus preparing the barrel for a second discharge.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improved pistol, the slide having been removed from one of its sides, showing the cartridge-chamber in position to present the first cartridge carried thereby to the firing-barrel. Fig. 2 is a plan view of the pistol. Fig. 3 is a vertical section through the pistol with the parts in the position shown in Fig. 1. Fig. 4 is a view similar to Fig. 3, illustrating the bolt as about to strike the firing-pin. Fig. 5 is a view similar to that shown in Fig. 4, illustrating the position of the parts after firing and the cartridge carrier or block just about to shift its position. Fig. 6 is a side view of the improved pistol, the slide being removed and showing the cartridge block or carrier as in position to present the last cartridge carried to the barrel. Fig. 7 is a section taken on the line 7 7 of Fig. 4; and Fig. 8 is a section on the line 8 8 of Fig. 6, showing the cartridge carrier or block in dotted lines partly removed from the pistol.

The frame of the pistol consists of a grip or handle section A and two barrels B and C, both barrels being in communication with a chamber 11, formed in the grip or handle section A. One barrel is below the other, and the uppermost barrel sustains such relation to the top edge or body of the grip-section that it may be used for sighting purposes.

The chamber 11 is provided with a side rib 12 near each face of the handle or grip section, and upon these ribs the cartridge-carrier or cartridge-block 13 is held to slide. The back edge of the handle or gripping section is convexed, being fitted to the palm of the hand, while a concaved surface 10 is formed at the front of the handle below the firing-barrel C in order to accommodate a finger of the hand grasping the handle.

The cartridge block or carrier 13 is shown in the drawings as provided with three chambers, the intermediate chambers being separated by partitions 15; but any desired number of chambers may be used. Each chamber is open at both ends; but each chamber is shown as channeled at its rear or back end to receive the flanges of the cartridges 16. A spring 17 is secured to the lower end of the bottom wall of the chamber 11. This spring is preferably made up of a series of independent leaves which extend transversely of the chamber, adjacent leaves being alternately connected at their opposite ends. The inner end of the spring 17 has an eye 17^a formed thereon, receiving a projection or a stud 17^b from the bottom of the cartridge block or carrier 13. The normal tendency of the spring 17 is to draw the cartridge carrier or block in direction of the bottom of the chamber 11, in which it has movement.

A cylinder 18, or what may be termed a "cylindrical jacket," is held to slide in the upper barrel B, and a trigger 19 is attached to the bottom side of the jacket 18, the said trigger extending to the lower or firing barrel, being, however, independent of the lat-

ter. The trigger is held to slide in an opening 20, made in the under face of the upper barrel B, which opening extends from a point near the center of the barrel preferably to its inner end, and at the inner end of the upper portion of the cylinder or jacket 18 a second longitudinal opening 21 is produced.

A firing-bolt 22 is held to slide in the jacket 18. This firing-bolt is provided upon its under face with a longitudinal slot 23, into which a pin 24 extends, being secured to the trigger 19 and serving in a measure to limit the movement of the firing-bolt. A spring 25 is attached to the front end of the firing-bolt and to the front end portion of the said jacket or cylinder 18, which front end portion of the jacket has a flange 26, against which the spring bears. A second spring 26^a passes through the spiral spring 25, being secured to the forward end of the firing-bolt and to a loop 27 or other form of keeper which extends across the front end of the barrel B in advance of the jacket 18, even when the latter is in its extreme forward position, as illustrated in Fig. 3. The outer and stronger spring 25 need not be actually attached to the firing-bolt, but may simply bear against the same.

A recess 28 is made in the upper portion of the firing-bolt 22 near its rear end or heel, the forward or front wall of the said recess being somewhat concaved. A pawl 29 is pivoted in the recess 28 of the firing-bolt, and the head end of the pawl, which is normally forced outward past the top of the bolt by a spring 30, is normally in engagement with a wall of a recess 31, made in the under face of the top end portion of the grip or handle A. When the pawl 29 is thus in engagement with the grip or handle section A, it locks the firing-bolt and prevents it from being forced backward; but at this time the jacket may be carried backward by exerting tension in that direction on the trigger 19, compressing thereby the outer and stronger spring 25 and placing the inner spring 26^a under tension, as also shown in Fig. 4. When the trigger has been carried sufficiently backward or nearly to the grip or handle section A, the top rear edge portion of the jacket 18 will have passed by the pawl 29, as shown in Fig. 4, and forced the head of the pawl out from its slot or keeper 31, whereupon the large or firing spring 25, which had been compressed, will force the rear or striking end or heel of the firing-bolt violently in direction of the back of the grip or handle section and across the magazine-chamber 11. When the firing-bolt is thus carried rearward, it strikes the head 34 of the pivoted firing-pin 32, rocking the said pin in such manner that the firing-point 35, which is at the opposite end of the firing-pin, will be brought violently in engagement with the cap of the cartridge in the lowermost chamber of the cartridge cylinder or block, as shown in Fig. 4. The firing-pin 32 is pivoted in a recess 33 at the back of the chamber 11, in which the cartridge-block slides.

After the firing-bolt has made its impact on the firing-pin it and the jacket are drawn back to their normal position by the lesser spring 26^a. A safety-catch 36 is provided, which is in the nature of an angular bolt fulcrumed upon the front of the grip or handle section, and when the firing-bolt and jacket are in their normal position (shown in Fig. 3) by carrying one member of the safety-catch through the slot 20 in the bottom of the upper barrel B and into a registering slot 20^a, made in the bottom of the jacket, (see Fig. 3,) the jacket cannot be moved and the weapon may be safely carried, since the trigger cannot be drawn rearward to fire a cartridge until the safety latch or catch is disengaged from the jacket. Even when the safety-latch is disengaged from the jacket the weapon may fall to the ground and even strike an object on the ground without producing a movement of the firing-bolt, and consequently a cartridge at that time cannot be exploded.

In order that the smoke and waste products of combustion may readily escape from the pistol, slots 37^a are made in the top of the grip or handle section, which are in communication with the chamber 11.

The mechanism for controlling the feed of the cartridge carrier or block after it has been placed in position for the first fire is as follows: A cylindrical bolt 37 is held to slide in a suitable opening in the front portion of the grip or handle section A, between the firing-barrel and the barrel carrying the firing-bolt, nearer the former than the latter. The rear end of the bolt is inclined forwardly from the top in direction of the bottom, and normally extends beyond the rear edge of the front wall of the said handle, as shown particularly in Figs. 3 and 4. The bolt is provided with an opening 38 near its rear end, which communicates with an interior chamber 39. The opening 40, in which the bolt has movement, is increased in diameter at its forward end in order to accommodate a spiral spring 41, which surrounds the aforesaid bolt. At the forward end of the bolt a cap 42 is placed, which cap carries a retarding member 43, located within the chamber of the bolt, and the said retarding member, when the cap 42 is pressed, will extend beyond the rear end of the bolt 37, which may be termed a "locking-bolt." The retarding member 43 is held to slide in the locking-bolt through the medium of a pin 44, which extends through an opening 45, made in the locking-bolt, as shown particularly in Fig. 4. A small spring 46 has bearing against a shoulder formed on the locking-bolt and is connected with or has bearing against the cap 42, as illustrated in Fig. 5. A lug 47 is formed upon the retarding member near its rear end, the upper face of the rear end of the said retarding member being inclined from the lug to its rear extremity, as shown in Fig. 5, and the lug 47 on the retarding member is adapted in operation to enter the recess 38

in the locking-bolt. It is obvious that the retarding member will have a rocking movement in the locking-bolt.

When the trigger 19 has been pulled rearwardly a sufficient distance to effect an explosion of the cartridge, the trigger will not have engaged with the cap 42 of the controlling device or mechanism for the cartridge-chamber, and the locking-bolt, as shown in Fig. 3, will be in engagement with an adjacent partition in the cartridge block or carrier, holding the latter firmly in position. By a slight further rearward movement of the trigger 19 said trigger will engage with the cap 42 and will incline the retarding member 43, as shown in Fig. 5, giving the said retarding member an upward inclination to such an extent that its lug 47 will enter the opening 38 in the locking-bolt, while the rear end of the retarding member will be brought into engagement with the partition formerly engaged by the locking-bolt when the trigger 19 is slightly released to relieve the cap 42, the spring 41 at that time acting to force the retarding member forward, compelling the locking-bolt to travel in the same direction. Therefore the partition in the cartridge-block will be relieved from engagement with the locking-bolt and will be engaged by the retarding member. This controlling mechanism having been entirely freed from engagement with the trigger, the spring 17 will act to draw the cartridge-carrier or bolt downward, forcing the retarding member 43 out of engagement with the locking-bolt and permitting the spring 46 to act to throw the locking-bolt to its normal position, so that the locking-bolt will engage with the upper partition of the next chamber, permitting the cartridge of the intermediate chamber to be brought into registry or alinement with the firing-barrel, so that at the next rearward movement of the firing-bolt the cartridge in the intermediate chamber of the cartridge-block will be exploded.

The forward ends of both of the barrels A and B are surrounded by a reinforcing-band 48, and the forward end of the upper barrel B is closed by a plate 49 or its equivalent.

When the cartridge-carrier 13 is disconnected from its spring 17 and the cover for the chamber 11 is removed, the cartridge-carrier may be swung laterally out from the chamber and loaded, as shown in dotted lines in Fig. 8.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a firearm, the combination with a grip or handle provided with a chamber, of a cartridge-carrier held to slide in the chamber, a stationary firing-barrel communicating with said chamber, a firing-bolt independent of the firing-barrel and arranged to enter the chamber of the handle, a firing-pin operated by the firing-bolt, a trigger for the bolt, and means for controlling the movement of the cartridge-carrier.

2. In a firearm, the combination with a grip or handle provided with a chamber and independent barrels communicating with the chamber and connecting with said handle, one of the barrels being a firing-barrel, of a cartridge-carrier held to slide in said chamber, a firing-bolt placed in one of the barrels and arranged to enter said handle, a firing-pin located in the handle, one portion of which is in the path of the firing-bolt, a trigger for operating the firing-bolt, and a feed device independent of and operated by said trigger.

3. In a firearm, the combination with a grip or handle provided with a chamber, independent barrels communicating with the chamber and connecting with said handle, one of the barrels being a firing-barrel, and a cartridge-carrier having compartments for the cartridges and mounted to slide in said chamber, of a tension-controlled firing-bolt held to slide in one of the barrels and enter said handle, a firing-pin operated by the bolt, a trigger by which the bolt is operated, a spring controlling the movement of the carrier in one direction, and a feed device controlling the movement of the carrier in the other direction, said device being operated by the trigger.

4. In a pistol, a grip or handle section, the said grip or handle section being provided with a chamber, a cartridge carrier or carriage held to travel in the said chamber, a firing-pin for the cartridges, a controlling device for the cartridge-carrier, a firing-barrel connected with the said grip or handle, a second and upper barrel, connected with the grip or handle section, a firing-bolt located in the upper barrel, and a trigger for actuating the said firing-bolt, as and for the purpose specified.

5. In a pistol, a grip or handle section, the said grip or handle section being provided with a chamber, a cartridge carriage or carrier held to travel in the said chamber, a firing-pin for the cartridges, a controlling device for the cartridge-carrier, a firing-barrel connected with the said grip or handle, a second and upper barrel connected with the grip or handle section, a firing-bolt located in the upper barrel, and a trigger for actuating the said firing-bolt, as and for the purpose specified, the trigger being located between the two barrels, and a locking device for the firing-bolt, as and for the purpose set forth.

6. In a pistol, the combination, with a grip or handle section, a tension-controlled cartridge-carrier held to travel in the said section, a firing-pin contained in the handle-section, and a regulating device carried by said grip or handle section for controlling the feed of the cartridge-carrier, of a firing-barrel, and a second or upper barrel, both of which are in communication with the chamber in the grip or handle section, a firing-bolt contained

in the upper barrel, and a trigger located between the barrels, arranged to operate the firing-bolt, as and for the purpose set forth.

7. In a pistol, the combination, with a grip or handle section, a tension-controlled cartridge-carrier held to travel in the said section, a firing-pin contained in the handle-section, and a regulating device carried by said grip or handle section for controlling the feed of the cartridge-carrier, of a firing-barrel connected with the chamber of the grip or handle section, a second and upper barrel likewise connected with the said chamber, a tension-controlled firing-bolt located in the upper barrel, a lock for the firing-bolt, a jacket for the firing-bolt, likewise tension-controlled and arranged for the release of the lock of the firing-bolt, and a trigger operating the said jacket, as and for the purpose specified.

8. In a pistol, a grip or handle section, two barrels communicating with the interior of the grip or handle section, a firing-pin and cartridge-carrier contained in the grip or handle section, a firing-bolt carried by one of the barrels, a lock for the bolt, and a trip for the said lock, substantially as shown and described.

9. In a pistol, the combination, with a grip or handle section provided with an interior chamber, a tension-controlled cartridge block or carrier held to travel in the chamber, a firing-pin held for engagement with the cartridges of the said block or carrier, and a controlling device for said block or carrier, of a firing-barrel in communication with the chamber in the grip or handle section, a second barrel having the same communication, a tension-controlled firing-bolt located in the second barrel, a lock for the firing-bolt, a tension-controlled jacket surrounding the firing-bolt and arranged as a trip for the lock, and a trigger located between the barrels and connected with the said jacket, as and for the purpose specified.

10. In a pistol, the combination, with a grip or handle section provided with an interior chamber, a tension-controlled cartridge block or carrier held to travel in the chamber, a firing-pin held for engagement with the cartridges of the said block or carrier, and a controlling device for said block or carrier, of a firing-barrel in communication with the chamber in the grip or handle section, a second barrel having the same communication, a tension-controlled firing-bolt located in the second barrel, a lock for the firing-bolt, a tension-controlled jacket surrounding the firing-bolt and arranged as a trip for the lock, and a trigger located between the barrels and connected with the said jacket, said trigger being arranged in its rearward movement to operate the controlling device for the cartridge carrier or block, as and for the purpose specified.

11. In a pistol, the combination, with a grip or handle section provided with a chamber, a cartridge block or carrier having sliding movement in the said chamber, a tension device connected with the block or carrier, and a firing-pin arranged for engagement with a predetermined cartridge in the carrier, of a firing-barrel in communication with the chamber, a firing-bolt tension-controlled in two directions, a lock for the firing-bolt, a trip for the said lock, and a trigger operating said trip, as and for the purpose specified.

12. In a pistol, the combination, with a grip or handle section provided with a chamber, a cartridge block or carrier having sliding movement in the said chamber, a tension device connected with the block or carrier, and a firing-pin arranged for engagement with a predetermined cartridge in the carrier, of a firing-barrel in communication with the said chamber, a second and upper barrel being in like communication with the chamber, a firing-bolt, tension-controlled in two directions, a lock for the firing-bolt, a trip for the said lock, a trigger operating the said trip, and a controlling device for the cartridge carrier or block operated from the said trigger, as and for the purpose specified.

13. In a pistol, a grip or handle adapted to be held entirely in the hand, independent barrels communicating with the grip or handle, one being above the other, a firing-bolt carried by one of the barrels, the other being a firing-barrel, a trigger arranged to trip the firing-bolt, said trigger having movement between the barrels, a cartridge-carrier movably mounted in the handle, a firing-pin operated by the bolt, and a feed device for the carrier controlled by the trigger.

14. A pistol consisting of a grip or handle section shaped to be held entirely in the hand, barrels connected with the said grip or handle section, one of which is a firing-barrel, a firing-bolt contained in the other barrel, a trigger, a trip device connected therewith, operated with the said firing-bolt, a hammer and cartridge carrier or block contained in the grip or handle section, a regulating device for the cartridge carrier or block, and a safety-latch for the said bolt, as and for the purpose specified.

15. In a pistol, the combination, with a sliding cartridge carrier or carriage divided into chambers, and a regulating device for the said cartridge carrier or block, consisting of a locking-bolt arranged for normal engagement with a partition of the carrier or block, a retarding member carried by the said bolt, having rocking and end movement therein, being adapted for locking engagement with the said locking-bolt, and tension devices controlling the action of the locking-bolt and its retarding member, as and for the purpose specified.

16. In a pistol, the combination, with a grip or handle section, a cartridge carrier or block held to slide therein, barrels communicating with the chamber of the handle-section, one barrel being a firing-barrel, and a tension-controlled firing-bolt provided with a locking device held to slide in the other barrel, and a

trigger-operated trip for the locking device of the firing-bolt, of a firing-pin operated by the firing-bolt and arranged for engagement with a predetermined cartridge in the cartridge-carrier, and means, substantially as described, for controlling the movement of the cartridge carrier or block, as and for the purpose set forth.

17. In a pistol, the combination, with a grip or handle section, a cartridge carrier or block held to slide therein, barrels communicating with the chamber of the handle-section, one barrel being a firing-barrel, a tension-controlled bolt provided with a locking device held to slide in the other barrel, and a trigger-operated trip for the locking device of the firing-bolt, of a firing-pin operated by the firing-bolt and arranged for engagement with a predetermined cartridge in the cartridge-carrier, and a locking-bolt provided with a retarding member, both of which are arranged for the regulation of the movement of the cartridge carrier or block, and both parts being tension-controlled and operated by the said trigger, as and for the purpose specified.

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N. C. RIAN.