L. H. BURLIN.

GUN.

APPLICATION FILED JUNE 18, 1917.

1,290,898. Patented Jan. 14, 1919.

Fig. 1.

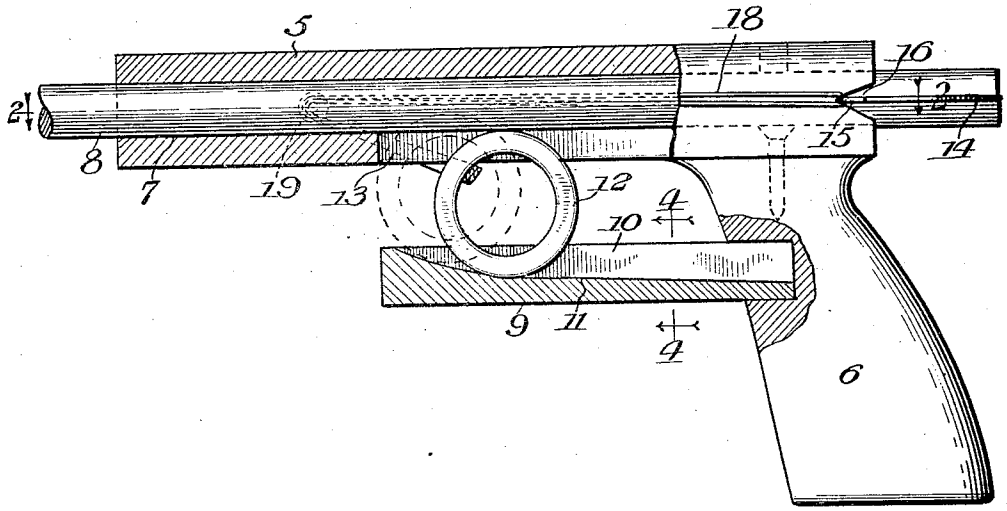


Fig. 2.

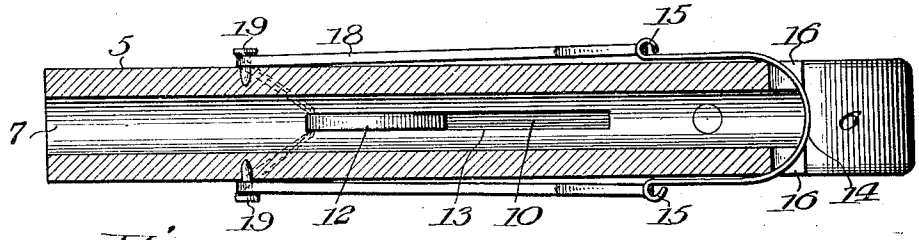


Fig. 3.

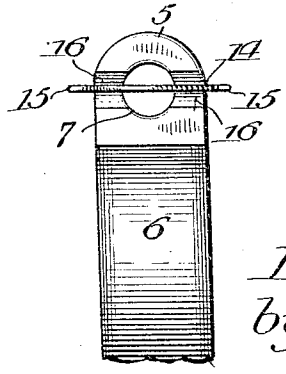
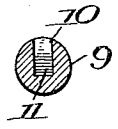


Fig. 4.



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UNITED STATES PATENT OFFICE.

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GUN.

1,290,898. Specification of Letters Patent. Patented Jan. 14, 1919.

Application filed June 18, 1917. Serial No. 175,320.

To all whom it may concern:

Be it known that I, LESLIE H. BURLIN, a citizen of the United States, residing at Oak Park, in the county of Cook and State of Illinois, have invented new and useful Improvements in Guns, of which the following is a full, clear, and exact description.

The invention relates to toy guns, and has for its object the production of a toy of this character having means whereby the dart or projectile may be held at any desired position with relation to the barrel of said gun, and also to produce a means for varying the velocity at which the projectile is impelled. A further object is to arrange the means which impels the projectile so that the same will be in its proper position to insure its engagement by said projectile when same is inserted into the barrel of the gun. An additional object is to employ a construction the parts of which are simple, effective and durable, and which will not readily become worn and result in a consequent reduction in efficiency.

I will explain the invention with relation to the accompanying drawings, in which—

Figure 1 is a central section, partially in elevation, showing the parts in the cocked position and holding the projectile with relation thereto.

Fig. 2 is a section taken on line 2—2, Fig. 1.

Fig. 3 is a view of the butt end of the gun shown in Figs. 1 and 2, and

Fig. 4 is a section taken on line 4—4, Fig. 1.

In the embodiment of the invention shown in the drawings, same is comprised of the barrel 5 and the grip or handle 6, which are suitably fastened together, or may be constructed of one piece, as found desirable.

The barrel is provided with the usual bore 7 into which the projectile 8 is inserted and held. Projecting forwardly from the grip or handle 6 a suitable distance below the barrel is arranged the extension 9 which is provided with a groove 10 the mouth of which opens toward the barrel.

The lowermost portion of the groove is inclined, as indicated at 11, having the deepest portion thereof arranged nearest the grip or handle 6. A trigger 12 of suitable material, preferably, fiber, is arranged to operate within groove 10, and normally assumes a position at the forward end or shoulder portion of said groove, and projects into bore 7 of barrel 5 through the slot 13 provided in the lowermost portion thereof.

The trigger 12 is herein illustrated as comprised of a ring, but the same may be of any other suitable shape or construction, as found convenient or desirable. At the end of the barrel opposite to the muzzle thereof is arranged the yoke-shaped member 14, the portion intermediate the ends thereof extending across the bore 7 and seated in the notches 16, 16. These notches insure the proper positioning of said member when same is in the position shown in Fig. 2 so that it may be readily engaged by the end of the dart 8 when it is inserted into the bore of the gun barrel. The opposite ends of member 14 are provided with the loops 15, 15 to which is attached the expansible member 18, and may be of the usual rubber band, which suffices for the purpose intended. When a rubber band is used the same will be passed through the ring 12; the opposite ends thereof will then be passed over the pins 19, 19, arranged upon the barrel and thence to ends 15, 15, of member 14 where the loop ends of the rubber band will be engaged and held. It will be noted that pins 19, 19, are arranged forwardly of slot 13; this causes said ring to assume a position at the forward end of slots 13 and groove 10.

It will be understood that when the parts are in the position shown in Fig. 2 that said band will be under sufficient tension to hold member 14 within the notches 16, 16, and also to bring the ring into the dotted line position shown in Fig. 1, where same will be in position to intercept the dart and be forced by the same into the full line position. As the dart passes the ring, said ring is forced along groove 10 exerting a greater tension upon expansible member 18 and causing said ring to wedge itself between the smallest portion of groove 10 and dart 8. This binds the dart between the barrel and the uppermost portion of the ring and prevents its discharge. From this it can readily be seen that as member 14 is moved away from the end of the gun barrel by virtue of the insertion and engagement therewith of the dart that the binding effect of the ring against the dart will be augmented in proportion to the increased expansion of member 18; also that the speed at which the projectile is impelled will vary accord-

ing to the expansion of said member. To discharge the dart this binding effect is released by pulling the ring with the finger toward the deepest position of groove 10. This increases the distance between the uppermost portion of the ring and the dart, which is thereby released and discharged from the gun at the object at which same is aimed.

From the foregoing it can readily be seen that the elements employed and their arrangement with respect to each other result in simple and effective construction, the parts of which can not readily become worn and useless or become separated and lost from each other, and also result in a toy which is comparatively simple to manufacture, having all of the advantages necessary for an article of this nature.

While I have herein shown and described one embodiment of the invention, it is obvious that changes and modifications may be resorted to without departing from the spirit of the invention.

What I claim and desire to cover by Letters Patent:

1. A device of the class described, in combination, a member constructed to receive a projectile, and a frictional member constructed to hold said projectile within the bore; said frictional member forming a trigger whereby said projectile may be released.

2. A device of the class described, in combination a member constructed to receive a projectile, means for holding said projectile at various positions within said member, and means operably connected with said first mentioned means whereby said projectile is forced from said member.

3. A device of the class described, in combination, a member constructed to receive a projectile, a member arranged at one side of the first mentioned member, another member arranged between the member which is constructed to receive the projectile and the second mentioned member whereby said projectile is held within the first mentioned member, and means whereby said projectile is forced from said first mentioned member.

4. A device of the class described, in combination, a member constructed to receive a projectile, a slot in said member, another member having a slot arranged at one side of the first mentioned member, means for holding said projectile within said first mentioned member; said means being operable along both of said slotted members, and means whereby said projectile is forced from within the first mentioned member.

5. A device of the class described, in combination, a member constructed to receive a projectile, another member arranged at one side of the first mentioned member and being provided with an inclined slot, a member arranged within the slot whereby said projectile is held within the first mentioned member, and means whereby said projectile is forced from said first mentioned member when the member which is arranged in said slot is operated within said slot.

6. A device of the class described, in combination, a member constructed to receive a projectile, a slot in said member, another member arranged at one side of the first mentioned member; said member also having a slot, a trigger arranged within the slot of the second mentioned member and extending through the slot of the first mentioned member to engage the projectile, and means whereby said projectile is released when said trigger is operated along the slot of the second mentioned member.

7. A device of the class described, in combination, a member constructed to receive a projectile, a slot in said member, another member arranged at one side of the first mentioned member, an inclined slot in said second mentioned member, a member projecting through the slot of the first mentioned member and engaging the projectile and being arranged to be operated along the slots in both of said members; said slot in the second mentioned member permitting the release of the projectile when the member which engages the projectile is operated along the inclined slot of the second mentioned member.

In witness whereof I have hereunto set my hand this 25th day of May, 1917.

LESLIE H. BURLIN.

Witnesses:
W. L. BURLIN,
O. M. WERMICH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."