March 13, 1945. W. MAJEWSKI 2,371,249

TOY MACHINE GUN

Filed April 24, 1943

Fig. 1.

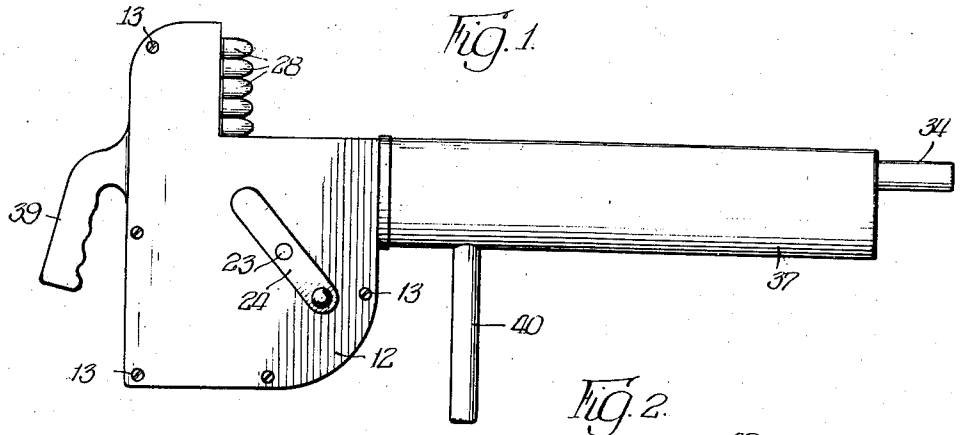


Fig. 2.

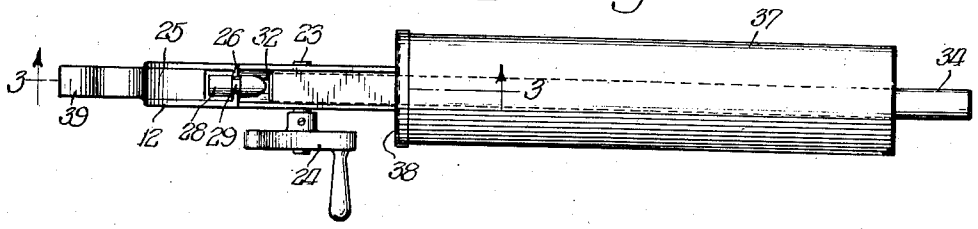


Fig. 3

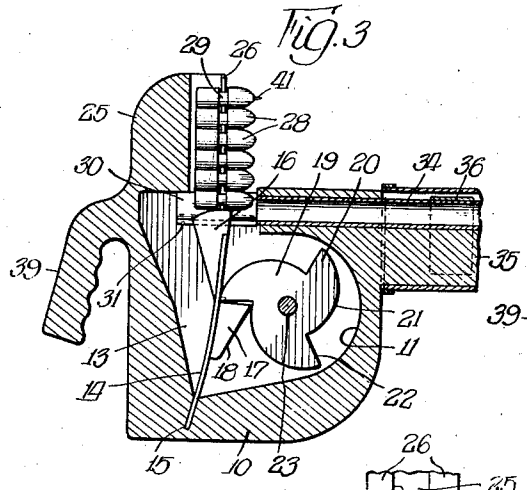


Fig. 4

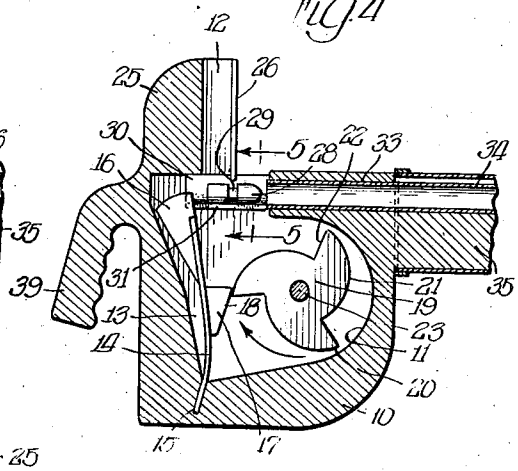
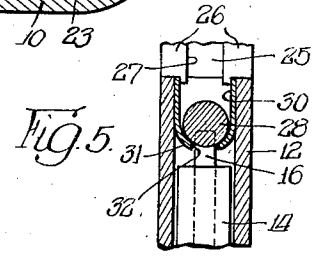


Fig. 5.



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TOY MACHINE GUN

Walter Majewski, Norwood Park, Ill.

Application April 24, 1943, Serial No. 484,475

1 Claim. (Cl. 124—49)

The present invention relates to the toy machine guns and has for its main object the provision of a gun provided with a hammer, intermittently retractable by means of a multi-pronged cam for intermittently striking and propelling bullets as the same successively fall into the breech of the gun.

A still further object of the present invention is the provision of the gun of the character indicated, and which may be provided with a breech with a plurality of bullets disposed thereabove and having a hammer shiftable within the breech for the purpose of striking and discharging bullets which fall within the breech due to the gravity as the hammer is retracted.

A still further object of the present invention is the provision of a toy machine gun of the character above indicated and which may be provided with a magazine for bullets and communicating with the breech of the gun, and which magazine may be provided with suitable means for guiding the bullets into the breech, and one at a time.

With the above general objects in view and others that will appear as the invention is better understood, the same consists in the novel construction, combination and arrangement of parts hereinafter more fully described, illustrated in the accompanying drawing and pointed out in the appended claim.

In the drawing forming a part of this application, and in which like designating characters refer to corresponding parts throughout the several views,

Fig. 1 is a side elevational view of the gun;

Fig. 2 is a top plan view of the gun;

Fig. 3 is a cross-sectional view of the butt portion of the gun illustrating the bullet-actuating hammer within the breech and in an inoperative position, the view having been taken on line 3—3 of Fig. 2;

Fig. 4 is a similar view showing the bullet-actuating hammer in a retracted position preparatory to striking a bullet in the breech;

Fig. 5 is an enlarged cross-sectional view through the breech, with a bullet therewithin, the view having been taken on line 5—5 of Fig. 4.

Referring in detail to the present drawing there is shown a butt 10 with a cavity 11 made therethrough, the butt being adapted to receive plate 12 on each side thereof, which form closures for said cavity 11. Said plates 12 are affixed to the butt by means of a plurality of screws 13. Positioned within cavity 11 is plate 14, which is of resilient, yieldable nature, and which by its lower end is rigidly affixed to butt 10 by being imbedded therein, as at 15.

Positioned at the upper end of said plate 14, and rigidly affixed thereto is hammer 16, made of comparatively heavy material. Said hammer 16 is narrower than plate 14 for the purpose hereinafter indicated. Intermediately of two ends plate 14 is lug 17 rigidly affixed thereto, and extending from one face of said plate 14. Said lug 17 has its outer face inclined as at 18.

Receivable within cavity 11 is cam 19 having a plurality of evenly spaced prongs 20, each prong 20 having an arcuate face 21 and a straight face 22. Cam 19 is rigidly set upon shaft 23 which is journaled within said plates 12, one end of said shaft 23 extending beyond one side plate 12 to receive in rigid relation crank handle 24 by means of which said shaft 23 and cam 19 may be manually rotated.

Butt 10 is provided with an upward extension 25, which is also covered by plates 12. Marginal edges of plates 12 and in front of said extension 25 are bent at right angles to form a pair of guides 26 with a resultant slot 27 therebetween. Said guides 26, spaced from the front edge of extension 25 and in conjunction therewith and with the adjacent portions of plates 12 constitute a magazine, within which the rear ends of a plurality of bullets 28 are stored. Each bullet 28 has a circumferential groove 29 made centrally thereof, reducing to that extent the bullet at that point. Said bullets 28 are receivable within slot 27 at their grooves 29 by virtue of which arrangement guides 26 prevent bullets 28 from making sliding movement longitudinally, but permit their horizontal movement and longitudinally of guides 26.

Rigidly affixed to the inner face of each plate 12, and below guides 26 is plate 30, each having lower marginal edge inwardly curved as at 31. The pair of opposed curved edges 31 of plates 30 effect slot 32 within which hammer 16 is adapted to shift. Said curved edges 31 of plates 30 constitute a seat or breech for bullets 28 as the same fall thereupon by gravity when hammer 16 is retracted by cam 19, as seen in Fig. 4.

Butt 10 at its upper end and in alignment with breech 31—31 is provided with bore 33 within which the rear end of barrel is positioned and within which the same is frictionally held. Butt 10 is further provided with a forward, horizontal extension 35 upon which barrel 34 is further supported, and to which the same may be affixed by binding 36.

Insertable upon said extension 35 and barrel 34 is cylinder 37, having a rear closure 38, which in turn may be rigidly affixed to plates 12. The front end of cylinder 37 is likewise sealed except for the opening through which barrel 34 extends.

The rear end of butt 10 may be provided with handle 39 by which the gun may be manually grasped and held. Standard 40, extending through cylinder 37 may rigidly engage extension 35, and may constitute means whereby the gun may be optionally held or supported on a tripod.

From the hereinabove description it will be seen that a plurality of bullets 28 are received within magazine defined by the front edge of extension 35 and the adjacent edges of plates 12, and are held therewithin by guides 26 against movement in all directions except the vertical direction. By their gravity bullets are permitted to successively drop upon breech 31—31 when hammer 16 is retracted. When hammer 16 is in its inoperative position illustrated in Fig. 3, the same constitutes support for bullets and constitutes the means for preventing the same to shift downwardly into breech 31—31.

Assuming that cam 19 is rotated into the direction indicated by an arrow in Fig. 4, arcuate face 21 of one of prongs 20, bearing against and riding upon the inclined face 18 of lug 17 will angularly shift resilient plate 14, retracting hammer 16 from the breech and from the path of bullets 28, permitting a single bullet to drop upon breech 31—31. Further shifting of cam 19 will disconnect the outermost point of prong 20 from its engagement with lug 17, permitting said lug to automatically fall back and along straight face 22 of prong 20 and upon the base of the arcuate face 21 of the next succeeding prong 20 of the cam. This last operation will abruptly release hammer 16 from its retracted position, causing the same to shift within slot 32 and against bullet 28 reposing in the breech, causing the bullet to be propelled through barrel 34 and outwardly therefrom through its outer end.

When bullets 28 are shot at a target made out of wood or cardboard, the same may be provided at their outer ends with pins 41 to be driven into the target and remain in engagement therewith so as to indicate the accuracy of the aim of the shooter.

The intermittent shifting movement of hammer 16 striking at bullets 28 as well as the intermittent contactual engagement of lug 17 at the bases of arcuate faces 21 of several prongs 20 of cam 19, will cause intermittent reports, simulating the rattle of a machine gun.

The time within which a plurality of bullets 28 are shot out of the gun depends of course upon the speed with which cam 19 is rotated by handle 24.

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

What I claim as new is:

In a toy machine gun, a butt embodying a solid vertical plate-like butt member having a relatively large transverse opening therethrough, closure plates secured to opposite sides of said butt member and closing said transverse opening to define a cavity in the butt, the upper forward portion of said butt member having a longitudinal horizontal bore therein above the forward portion of said cavity, a barrel having its rear end fitted in said bore, said butt member having an opening in the top thereof rearwardly of the barrel to permit downward passage of a bullet to a position in alinement with the barrel, means to support the bullet in such position, and a spring-projected bullet-propelling hammer and a manually operable element for intermittently retracting said hammer mounted within said cavity, said butt member and said closure plates having upward extensions projecting above the barrel, the extensions of the closure plates extending forwardly of the extension of the butt member and coacting with the latter to form a bullet magazine, the forward vertical edge portions of the closure plate extensions being bent inwardly at right angles to engage in the grooves of peripherally grooved bullets.

WALTER MAJEWSKI.