T. G. STOUGH.

MACHINE GUN TOY.

APPLICATION FILED FEB. 8, 1919.

1,356,664. **Patented Oct. 26, 1920.**

2 SHEETS—SHEET 1.

FIG. 1.

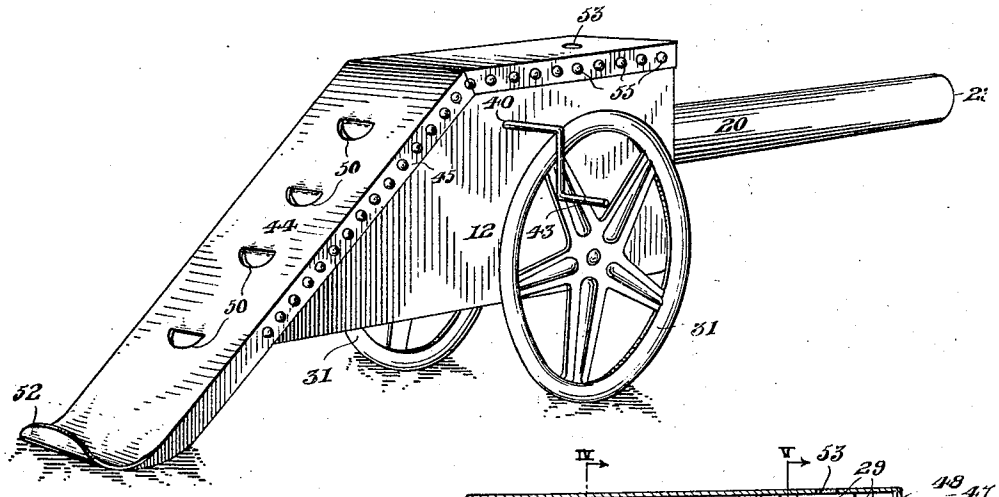
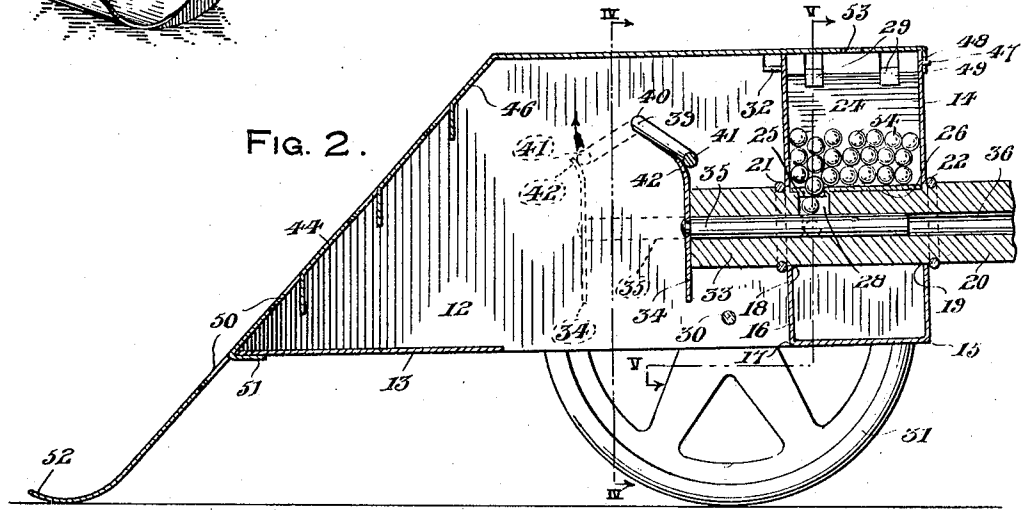


FIG. 2.



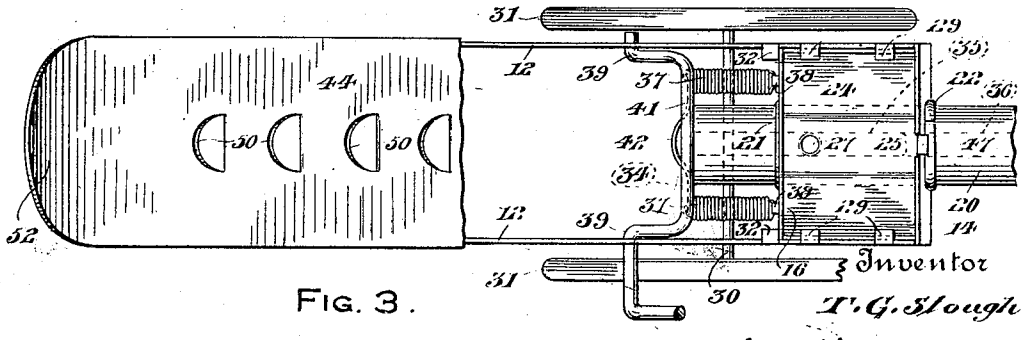


FIG. 3.

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2 SHEETS—SHEET 2.

FIG. 4.

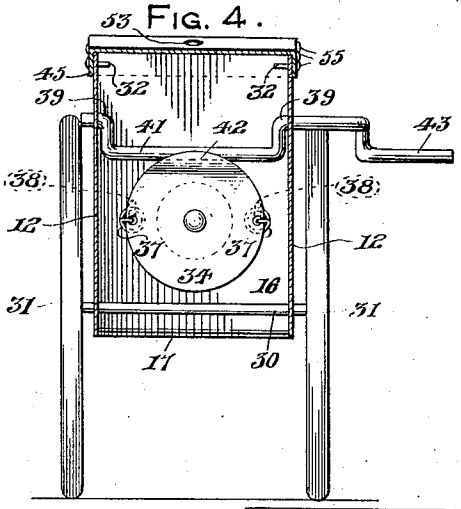


FIG. 5.

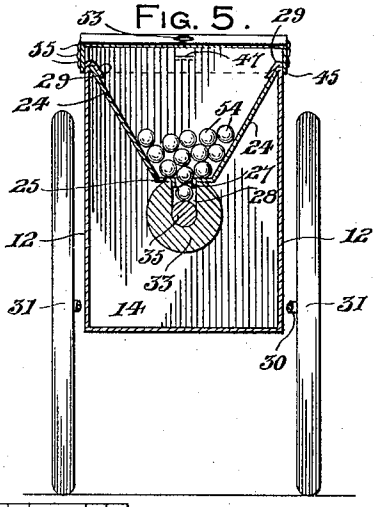


FIG. 6.

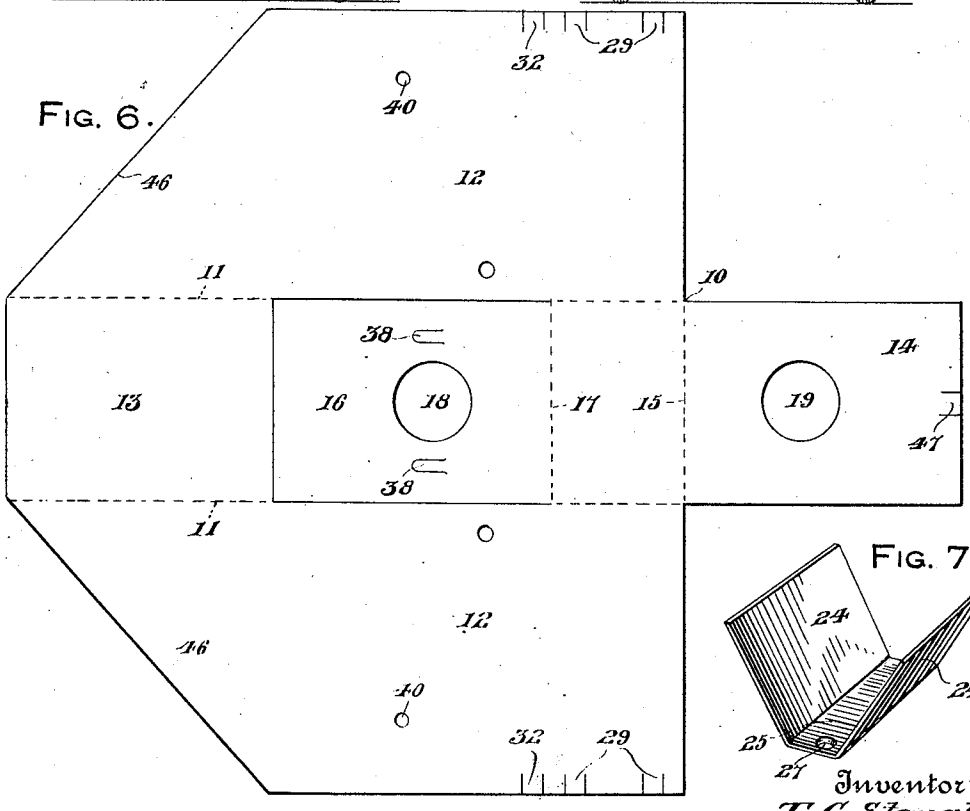


FIG. 7.

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UNITED STATES PATENT OFFICE.

TURNEY G. STOUGH, OF JEANNETTE, PENNSYLVANIA.

MACHINE-GUN TOY.

1,356,664. Specification of Letters Patent. Patented Oct. 26, 1920.

Application filed February 8, 1919. Serial No. 275,797.

To all whom it may concern:

Be it known that I, TURNEY G. STOUGH, a citizen of the United States of America, residing at Jeannette, in the county of Westmoreland and State of Pennsylvania, have invented certain new and useful Improvements in Machine-Gun Toys, of which the following is a specification.

The primary object of the invention is the provision of a toy machine gun that is easily and cheaply manufactured and is capable of rapidly firing shot of suitable diameter, the structure possessing considerable strength and presenting a pleasing appearance.

A further object of the invention is to provide a toy machine gun formed mainly of sheet metal, being light in weight and presenting the appearance of a cannon, the same being capable of quick firing operations for projecting small shots with considerable force.

With these general objects in view, the invention consists of the novel combination and arrangement of parts hereinafter fully described in connection with the illustrations found in the accompanying drawings and in which like reference characters designate corresponding parts throughout the several views.

In the drawings,

Figure 1 is a perspective view of the invention set up for use,

Fig. 2 is a vertical longitudinal sectional view thereof with the barrel broken away,

Fig. 3 is a horizontal sectional view of the same,

Figs. 4 and 5 are vertical transverse sectional views of the invention taken upon lines IV—IV and V—V, respectively of Fig. 2,

Fig. 6 is a developed plan view of the metal blank forming the body portion of the gun, and

Fig. 7 is a perspective view of a portion of the magazine forming member.

My toy machine gun comprises a cannon structure, the body portion of which is formed of a blank 10 of sheet metal of the form shown in Fig. 6 of the drawings. The blank 10 is substantially rectangular in shape adapted for bending upon spaced parallel lines 11 transversely of the blank and forming quadrilateral sides 12 and a rectangular bottom 13 for the cannon. A central extension 14 upon the blank 10 is bent upon its line of attachment 15 with the blank for standing perpendicular with respect to the bottom 13 and forming the front wall of the cannon with the opposite edges of the front wall 14 positioned adjacent the forward edges of the opposite sides 12. A section 16 of the same dimensions as the front wall 14 is struck-up from the bottom 13 by being severed around its three sides and bent upon the line 17 which is parallel to the bending line 15 at the lower end of the front wall 14.

In this manner, the section 16 is positioned upright between and in contact with the opposite sides 12 and parallel with the front wall 14 while alining circular openings 18 and 19 are provided substantially centrally through the section 16 and front wall 14 for mounting a firing tube or barrel 20 therethrough. The barrel 20 is formed if any suitable material such as wood and is provided with spaced parallel rings 21 and 22 encircling the barrel in contact with the outer walls of the sections 16 and front wall 14 respectively, whereby the barrel 20 is maintained in position with its forward end and muzzle 23 forwardly of the wall 14, the barrel 20 being in a plane parallel with the bottom 13.

A substantially V-shaped piece of metal 24 forms a hopper and is mounted between the sides 12 with its flattened bottom 25 seated upon a flat portion 26 at the top of the barrel 20, while a perforation 27 through the bottom 25 is in alinement with an opening 28 in the barrel 20 corresponding to the firing hole of a cannon. The member 24 engages the section 16 and front wall 14 being retained by downwardly struck lugs 29 in the opposite upper edges of the sides 12, the said lugs also assisting to retain the sides 12 in parallelism. The holding of the hopper member 24 rigidly positioned in the manner as noted, holds the barrel 20 from revolving. A shaft 30 is journaled through the sides 12 with suitable wheels 31 secured upon each end thereof whereby the cannon may be caused to travel in any desired direction, the wheels 31 being preferably formed by stamping out of a single piece of metal as herein illustrated. Opposite lugs 32 are provided in the upper edges of the sides 12 rearwardly of the aforementioned lugs 29 adapted for bending inwardly against the inner face of the section 16 for holding the latter in position. With the

barrel 20 mounted in the manner described, a portion 33 of the barrel will be positioned inwardly of the section 16 forming a breech portion. A breech block 34 formed of sheet metal is provided for engaging the rear inner end of the breech portion 33 of the barrel 20 and has a plunger or firing pin 35 slidably positioned in the axial bore 36 of the barrel 20. Springs 37 connect the breech block 34 with struck-up ears 38 carried by the section 16 at opposite sides of the opening 18 thereof and whereby the block 34 is normally held resiliently engaging the rear inner end of the breech portion 33 with the pin 34 in the bore 36.

A shaft 39 is journaled through opposite perforations 40 in the sides 12 with a crank portion 41 between the sides 12 adapted for engaging a rearwardly bent lip 42 at the top of the breech block 34 upon revolving the shaft 39 by means of its crank 43 in the direction indicated by the arrow in Fig. 2 of the drawings.

A cover plate 44 is formed of sheet metal in the nature of an elongated strip with opposite depending flanges 45, the said strip being adapted for seating upon the tops of the sides 12 and upon the rearwardly inclined rear edges 46 of said sides with the flanges 45 overlying the sides 12.

An outwardly bent lug 47 is provided in the top of the front wall 14 adapted for reception through a slot 48 in the depending flange 49 at the forward end of the cover plate 14 when the plate is positioned upon the sides 12 as heretofore noted. Substantially semi-circular perforations 50 are provided in a row through the rearwardly sloping portion of the cover plate 44 and the semi-circular lip 51 formed in making the lower perforation 50 is adapted to be bent inwardly beneath the rear end of the bottom 13 for assisting the lug 47 in maintaining the cover plate 44 in position. The lower free end portion 52 of the cover plate 44 is slightly upturned for seating upon the ground after the manner of the tail-piece of a gun carriage for maintaining the bottom 13 and the barrel 20 substantially horizontal. An opening 53 through the cover plate 44 above the hopper member 24 is adapted to receive shot 54 which are positioned in the hopper through the said opening 53. The shot 54 will enter the perforation 27 in the bottom of the hopper by reason of the inclination of the side walls of the latter and upon turning the shaft 39 and retracting the breech block 34 and pin 35, the shot will be fed one at a time through the firing hole 28 of the barrel 20 in to the bore 36 slightly forwardly of the firing pin 35. When the crank portion 41 of the shaft 39 passes off of the lip 42 of the breech block 34, the springs 37 will forcibly snap the breech block 34 and pin 35 forwardly whereby the shot 54 which is within the bore 36 will be forcibly projected through the bore and out of the muzzle 23 of the cannon. It will be understood that upon providing a plurality of shots 54 in the magazine, the crank 43 may be turned for successively retracting the firing pin 35 whereby the shots 54 will be rapidly projected from the barrel 20 in succession and with considerable force. My toy is capable of being formed mainly from sheet metal by stamping, it being apparent that no rivets or similar hold-fast devices and no soldering or welding is necessary in the entire manufacture of the invention. The appearance of the device is that of a cannon and may be rendered ornamental in any manner desired, such, for instance, as providing outwardly struck beads 55 upon the flanges 45. While the entire structure possesses great strength, it is light in weight for readily sending through the mail.

What I claim as new is:—

1. A toy in the form of a cannon comprising a sheet metal body having struck-up sides and a struck-up forward end with a struck-up body section parallel to and inwardly of said forward end, a barrel member secured through said struck-up body section and forward end, a hopper member upon said barrel between said sides, a cover plate detachably carried by said sides engaging said forward end and body with a downwardly projecting free end portion, and wheels journaled upon said sides.

2. A toy in the form of a cannon comprising a sheet metal body having struck-up sides and a struck-up forward end with a struck-up body section parallel to and inwardly of said forward end, a barrel member secured through said struck-up body section and forward end, a hopper member upon said barrel between said sides, a cover plate detachably carried by said sides engaging said forward end and body with a downwardly projecting free end portion, wheels journaled upon said sides, the said barrel having an axial bore and a firing hole, the said hopper member having a perforation in alinement with said firing hole, the cover plate having a shot receiving perforation above said hopper member, a firing pin slidably positioned within the bore of the barrel, and means adapted for retracting and projecting the said pin longitudinally within the bore beneath said firing hole.

3. A toy cannon comprising a sheet metal body having struck-up opposite sides and a struck-up front wall section with a struck-up body section between said sides parallel with said struck-up front wall section, a firing barrel secured through said body and front wall sections having a flat-

tened top portion and a firing hole extending through said flat portion, and a substantially U-shaped hopper member positioned between said sides and seated upon said flattened portion whereby the barrel is prevented from rotation, said hopper member having a perforation in alinement with said firing hole.

4. A toy cannon comprising a sheet metal body having struck-up opposite sides and a struck-up front wall section with a struck-up body section between said sides parallel with said struck-up front wall section, a firing barrel secured through said body and front wall sections having a flattened top portion and a firing hole extending through said flat portion, a substantially U-shaped hopper member positioned between said sides and seated upon said flattened portion whereby the barrel is prevented from rotation, said hopper member having a perforation in alinement with said firing hole, said barrel having an axial bore communicating with said firing hole, a firing pin slidable longitudinally in said bore beneath the firing hole, a breech block upon said pin rearwardly of the barrel, retracting means for the pin adapted for intermittent engagement with said breech block, and resilient projecting means for the pin connected between said block and the adjacently positioned struck-up body section.

5. A toy cannon comprising a sheet metal body having struck-up opposite sides and a struck-up front wall section with a struck-up body section between said sides parallel with said struck-up front wall section, a firing barrel secured through said body and front wall sections having a flattened top portion and a firing hole extending through said flat portion, a substantially U-shaped hopper member positioned between said sides and seated upon said flattened portion whereby the barrel is prevented from rotation, said hopper member having a perforation in alinement with said firing hole, said barrel having an axial bore communicating with said firing hole, a firing pin slidable longitudinally in said bore beneath the firing hole, a breech block upon said pin rearwardly of the barrel, retracting means for the pin adapted for intermittent engagement with said breech block, resilient projecting means for the pin connected between said block and the adjacently positioned struck-up body section, said sides having inwardly struck retaining lugs for said hopper member and struck-up body section, resilient rings mounted upon the barrel outwardly of said struck-up body section and front wall section and a cover plate upon said sides overlying said hopper member.

6. A toy cannon comprising a sheet metal body provided with a bottom and having struck-up opposite sides and a struck-up front wall section with a struck-up body section between said sides parallel with said struck-up front wall section, a firing barrel secured through said body and front wall sections having a flattened top portion and a firing hole extending through said flat portion, a substantially U-shaped hopper member positioned between said sides and seated upon said flattened portion whereby the barrel is prevented from rotation, said hopper member having a perforation in alinement with said firing hole, said barrel having an axial bore communicating with said firing hole, a firing pin slidable longitudinally in said bore beneath the firing hole, a breech block upon said pin rearwardly of the barrel, retracting means for the pin adapted for intermittent engagement with said breech block, resilient projecting means for the pin connected between said block and the adjacently positioned struck-up body section, said sides having inwardly struck retaining lugs for said hopper member and struck-up body section, resilient rings mounted upon the barrel outwardly of said struck-up body section and front wall section, wheels journaled upon said sides, a forwardly projecting lug upon said front wall, a sheet metal cover plate having front and side flanges adapted for mounting upon said sides and with a slot through said front flange adapted for reception of the lug of the front wall, said cover plate having an inwardly struck lip engaging beneath the rear end of the bottom when the device is assembled, the cover plate having a rearward curved free end portion adapted for engaging a support when the device is mounted upon said wheels with its barrel operatively disposed.

7. A device of the class described comprising a body formed of bent sheet metal and having a front wall, a firing barrel mounted through said wall projecting inwardly of the body, a sheet metal cover plate detachably carried by the body, with a portion of the cover plate rearwardly extended for engaging a support when the device is assembled, wheels trunnioned upon said body, means adapted for receiving shot positioned adjacent said barrel, and firing means for the barrel.

In testimony whereof I affix my signature.

TURNEY G. STOUGH.