A. N. SCHANSCHIEFF.

TOY GUN.

APPLICATION FILED FEB. 4, 1918.

1,287,768. Patented Dec. 17, 1918.

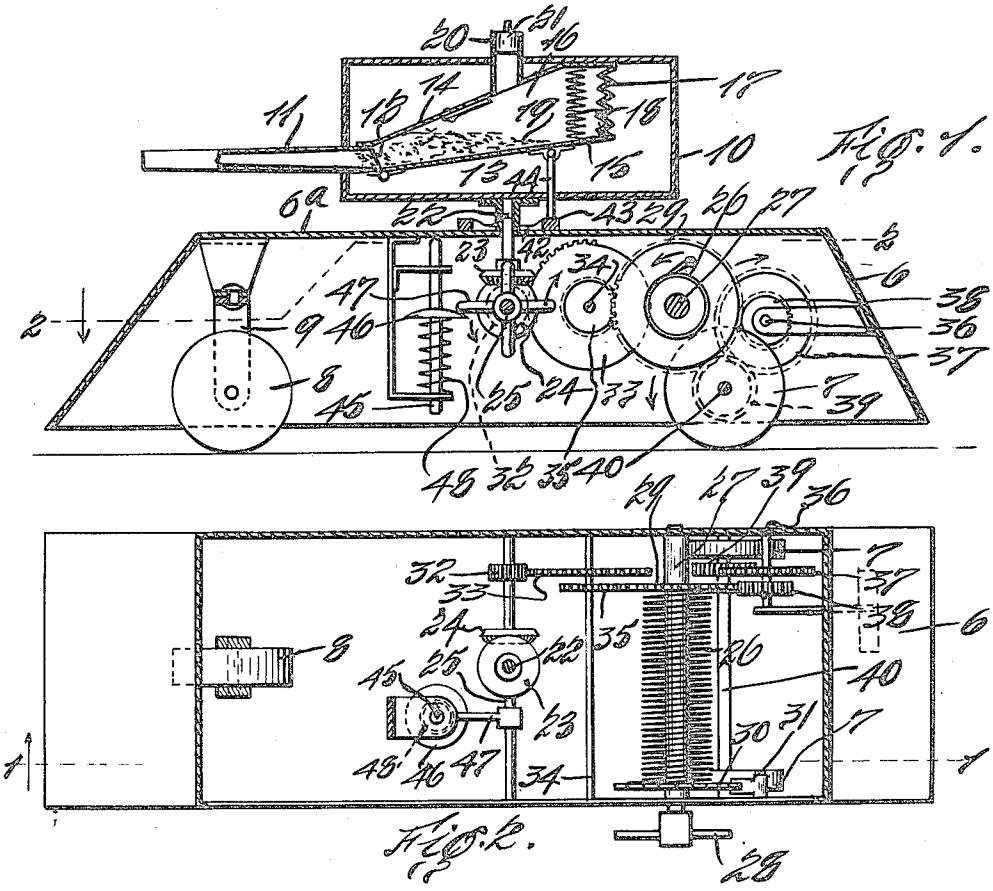


Fig. 1.

Fig. 2.

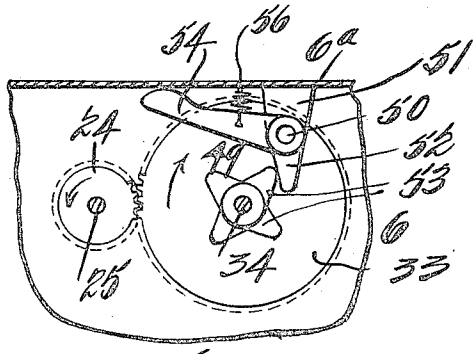


Fig. 4.

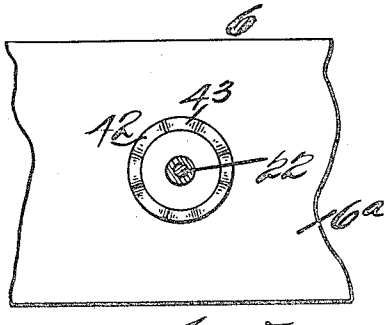


Fig. 3.

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TOY GUN.

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To all whom it may concern:

Be it known that I, ALEXANDER N. SCHANSCHIEFF, a citizen of the United States of America, residing at New York city, county and State of New York, have invented certain new and useful Improvements in Toy Guns, of which the following is a full, clear, and exact description.

This invention relates to improvements in toys in the form of a gun in combination with means to force powder therefrom to simulate smoke and also means acting in conjunction therewith to produce a report. In the present embodiment of my invention, I have mounted the gun in a revolving turret carried by a wheeled carriage, the whole arrangement having the appearance of a miniature armored car, special means being provided to propel the car, giving it the appearance of a self-propelled armored vehicle.

I will now proceed to describe my invention in detail, the novel features of which I will point out in the appended claims, reference being had to the accompanying drawing, forming part hereof, wherein:—

Figure 1 is a longitudinal sectional view of one embodiment of my invention, the section being taken on a line 1—1, Fig. 2;

Fig. 2 is a sectional plan view, the section being taken on a line 2—2 in Fig. 1;

Fig. 3 is a fragmentary sectional plan view of the carriage, illustrating the cam-plate to operate the bellows; and

Fig. 4 is an enlarged fragmentary sectional view, illustrating a modified form of sound producing device.

As herein illustrated, one embodiment of my improvement consists of a support or body 6 having driving-wheels 7 and a steering-wheel or wheels 8 carried by a swivel-frame 9. In this embodiment of my invention, I provide a rotatable turret 10 carrying a miniature gun 11 connected at its inner end or breech 12 to a bellows 13 consisting of a fixed wall 14 and an angularly disposed movable wall 15, said walls being connected by collapsible side-walls 16 and a rear wall 17. A spring 18 acts to return the lower wall 15 to normal position after it has been moved upwardly to force powder, indicated by 19, through the gun 11. The powder 19 is introduced into the bellows 13 through a spout 20 closed by a removable stopper 21. To rotate the turret 10, I mount the same upon a rotatable spindle 22 carried by the support or carriage 6. The lower end of the spindle carries a gear 23 meshing with a gear 24 on a shaft 25.

The means for operating the mechanism comprises a motor consisting of a spring 26 coiled about a spindle 27 provided at one end with a winding-key 28. One end of the spring 26 is secured to a gear 29 loose upon the spindle 27, the other end being secured to a ratchet 30 engaged by a retaining-pawl 31. The spring 26 is wound up by turning the spindle 27, the ratchet 30 being fixed to said spindle. This is a common form of motor, and needs no special illustration or description. To rotate the shaft 25, I provide same with a gear 32 meshing with a gear 33 on a jack-shaft 34. The jack-shaft carries another gear 35 meshing with the gear 29 on the winding-spindle 27. By means of the spring 26 and intermeshed gears, the turret 10 will have imparted thereto a rotary movement when the device is in operation.

To rotate the driving wheels 7, I provide a second jack-shaft 36 carrying gears 37 and 38. The gear 37 meshes with a gear 39 on the axle 40 for the wheels 7, while the gear 38 meshes with the gear 29, or master-gear, which is operated by the spring 26.

When in operation, the toy will be propelled and the turret rotated by means of the spring 26 and gears hereinbefore mentioned.

To operate the bellows 13, to cause the powder 19 to be forced through the gun in the form of puffs to simulate smoke, I provide a ring 42 having cam-spots 43 thereon which are engaged by a pin 44 pivotally secured at its upper end to the movable wall 15 of the bellows 13. During the rotation of the turret, the pin 44 will ride over the cam-spots 43, thereby alternately raising the wall 15 and allowing it to lower, whereby puffs of air will be forced through the gun, carrying powder with them. As can be seen, the ring 42 is carried by the support or carriage 6 and surrounds the spindle 22.

To simulate gun-reports, for each puff of powder, I provide a yieldably mounted pin 45 which carries a disk 46 acted upon for depression, by an arm 47 on the shaft 25. During rotation of the shaft 25, the arm 47 will bear against the disk 46 and depress the pin 45, thereby compressing the spring 48.

When the arm 47 leaves the disk 46, the spring 48 will snap the pin against the upper wall of the support or sound producing element 6^a, thus making a report which will be properly timed with respect to the puffs of smoke, as there are as many arms 47 as there are cam-spots 43.

Instead of employing the yieldably mounted pin 45, I may employ a bell-crank 49 pivoted at 50 to a bracket 51, the arm 52 of which is engaged by an arm 53 carried by the jack-shaft 34. During the operation of the device the lever-arm 54 will be moved down by the partial rotation of the lever upon its pivot 50. When the arm 53 leaves the lever-arm 52, a spring 56 will snap the lever-arm 54 against the support or carriage, thereby producing a report.

What I claim as my invention is:

1. The combination of a miniature gun, means to force powder through the gun in the form of puffs to simulate smoke, and means to produce a report coincident with said puffs of smoke.

2. The combination of a support, a gun rotatably mounted thereupon, a bellows to force powder through the gun in the form of puffs to simulate smoke, and means dependent upon the rotation of the gun to operate the bellows.

3. The combination of a support, a gun rotatably mounted thereupon, a bellows to force powder through the gun in the form of puffs to simulate smoke, a cam carried by the support, and means acted upon by the cam to operate the bellows when the gun is rotated.

4. The combination of a miniature gun, means to force powder through the gun in the form of puffs to simulate smoke, a sound producing element adjacent the gun, and means to strike said element simultaneously with the production of a puff of powder, to produce a report.

5. The combination of a support, a gun rotatably mounted thereupon, means to rotate the gun, means to force powder through the gun in the form of puffs to simulate smoke, and means, operable by the gun rotating device, to strike the support for the gun simultaneously with the ejection of a puff of powder to produce a report.

6. In combination with a miniature gun, means to force powder through the gun in the form of puffs to simulate smoke, a sound producing element adjacent the gun, a pin normally in contact with said element, means to move the pin away therefrom simultaneously with the ejection of a puff of powder, and a spring to snap the pin against the sound producing element to produce a report.

7. In combination with a miniature gun, means to force powder through the gun in the form of puffs to simulate smoke, a sound producing element, a striker, means to move the striker away from the sound producing element, and a spring to cause the striker to contact with said element to produce a report.

8. The combination of a support, a rotatable turret carried thereby, a driven shaft, means actuated by the driven shaft to rotate the turret, a miniature gun carried by the turret, means to force powder through the gun in the form of puffs to simulate smoke, a striker adjacent the support, means carried by the driven shaft to move the striker away from the support, and a spring to snap the striker against the support to produce a report.

9. The combination of a support, a rotatable turret carried thereby, a driven shaft, means actuated by the driven shaft to rotate the turret, a miniature gun carried by the turret, a bellows to force powder through the gun in the form of puffs to simulate smoke, a driven shaft, means actuated by the driven shaft to rotate the turret, means independent of the turret rotating mechanism to actuate the bellows, a striker adjacent the support, means carried by the driven shaft to move the striker away from the support, and a spring to snap the striker against the support to produce a report.

10. The combination of a support, a rotatable spindle carried thereby, means to rotate the spindle, a bellows rotatably connected to the spindle, a fixed cam, and means rotatable with the bellows acted upon by the cam to operate the bellows.

11. In combination with a miniature gun, means associated therewith to simulate smoke, and means independent of the smoke simulating means to produce a report simultaneously with the smoking of the gun.

12. In combination with a device to simulate the belching of smoke accompanied by a report, puff producing means associated therewith, and means independent of the puff producing means to produce a report simultaneously with the production of the puffs.

Signed at New York city, N. Y., this 31 day of January, 1918.

ALEXANDER N. SCHANSCHIEFF.

Witnesses:
MAURICE BLOCK,
EDWARD A. JARVIS.