A. N. SCHANSCHIEFF.

TOY.

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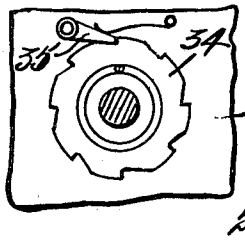


Fig. 3.

Fig. 1.

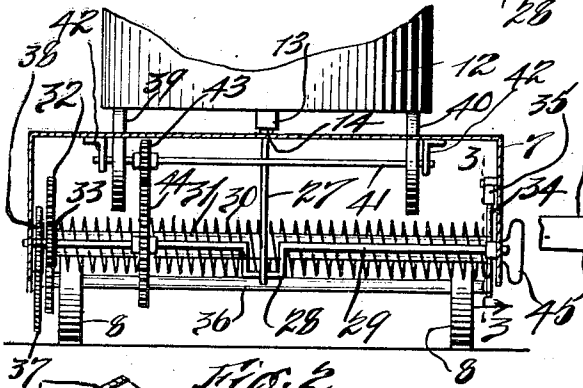


Fig. 2.

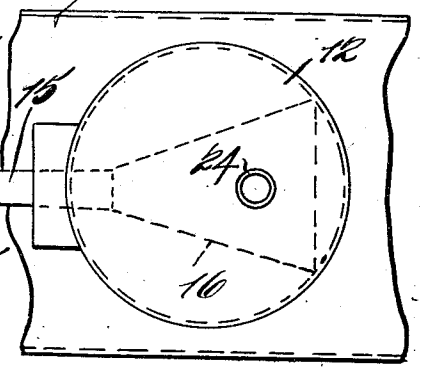


Fig. 4.

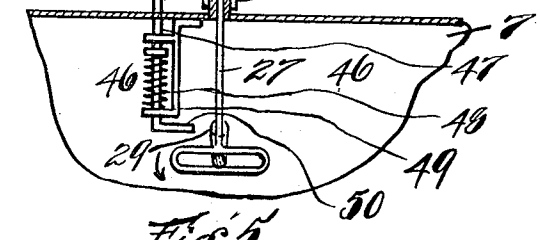


Fig. 5.

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TOY.

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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 Toys, of which the following is a full, clear, and exact description.

This invention relates to improvements in toys, the object being to provide a toy for children representing an armored car that is self-propelled and having a revolving turret containing a gun, special means being provided to force powder (such as talcum or other harmless powder) through the gun, at intervals, to simulate shooting.

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 drawings, forming parts hereof, wherein:—

Figure 1 is a longitudinal sectional view of a toy embodying my improvements;

Fig. 2 is a cross sectional view thereof, the section being taken on a line 2—2 in Fig. 1, looking in the direction of the arrow, the turret being broken away;

Fig. 3 is an enlarged fragmentary detail view, the section being taken on a line 3—3 in Fig. 2, looking in the direction of the arrow, showing the retaining ratchet and pawl for the operating spring;

Fig. 4 is a diagrammatic fragmentary plan view of the toy;

Fig. 5 is a fragmentary longitudinal sectional view of a modified form of agitator for the powder.

The toy above referred to consists of any suitable platform or base 7, preferably provided with driving-wheels 8 and steering-wheels or a single steering-wheel 9 carried by a frame 10 pivoted at 11 to the platform or base 7. Upon the platform or base 7 I mount a turret 12 arranged for rotation in a horizontal plane. In this instance the pivotal support consists of a tubular bearing-member 13 rotatably engaging a tubular trunnion 14 carried by the base or platform 7. In this instance the turret 12 is provided with a tubular member 15 (which I will term a gun) open at its inner end, said open inner end being in communication with a magazine 16 to contain powder, indicated by 17, said gun being open at its outer end also. In this instance the magazine 16 consists of a bellows having a fixed wall 18 and a movable wall 19 connected thereto by collapsible sides 20 and end wall 21, the fixed wall 18 being provided with an air inlet opening 22 covered by a valve member 23 which may consist of a leather flap. This form of valve is common to bellows construction. To charge the magazine, I provide a spout 24 through which powder can be poured. As can be seen, the movable wall 19 is hinged to the gun at 25 or otherwise pivotally secured thereto. To cause the powder to gravitate toward the breech 26 of the gun, I slant the movable wall 19 of the bellows, or dispose it at an angle relatively thereto, to provide a surface which is inclined toward the said breach 26.

When the toy is in motion, the movable wall 19 will be raised and lowered. When the wall 19 is raised, air will be forced out through the gun, carrying some powder with it, to simulate smoke, in the form of a puff.

To actuate the said movable wall, I provide a vertically movable rod or pin 27 actuated by a crank 28 carried by a shaft 29 The pin or rod 27 is slidably mounted in the trunnion 14. The movable wall 19 of the bellows rests upon said pin 27.

To operate the shaft 29, I provide a motor consisting of a spring 30 surrounding a winding spindle 31. The spring is secured at one of its ends to said spindle 31 and at the other end to a gear 32 loose upon the spindle 31, said gear 32 meshing with a gear 33 on the crank shaft 29. As this form of spring motor is well known, a detailed showing thereof is deemed unnecessary. The spindle 31 carries the usual retaining ratchet 34, a pawl 35 being carried by the platform 7.

To operate the wheels 8, or their shaft 36, I provide the said shaft with a gear 37 meshing with a gear 38 on the winding spindle 31. To rotate the turret 12, I provide rotatable disks 39 and 40 carried by a shaft 41 mounted in bearings 42. The shaft 41 carries a gear 43 meshing with a gear 44 on the driven crank shaft 29. To wind the spring 30, I provide a handle-member 45 carried by the spindle 31 and located exteriorly of the platform 7. When the toy is in motion, or, in other words, running along a table or floor, the pin 27 will have imparted thereto a reciprocating motion which will actuate the bellows to force air there-

from and also some powder, in the form of puffs; at the same time the turret 12 will be rotated in a horizontal plane by the disk 39 (for instance) which is driven by shaft 41, wheel 40 being loose upon said shaft. The turret 12 rests upon said disks 39 and 40, by gravity. The disks 39 and 40 constitute rotatable supports for the turret 12.

To assist the powder 17 to feed toward the breech of the gun, I may employ an agitator 46 (Fig. 5) consisting of a vertically movable pin 47 moved in one direction by the crank 28 and in the opposite direction by a spring 48, the pin being carried by a bracket 49. During the rotation of the crank 28, it will strike the projection 50 on the pin 47 and force it downwardly. When the crank leaves said projection, during its revolution, the spring 48 will snap the pin against the upper wall of the platform, thereby causing a jar which will act to cause the powder to settle toward the breech of the gun.

The steering wheels or wheel 9 may be provided with projections 51 which will act to agitate the powder and cause it to settle toward the breech of the gun during the revolution of said wheel or wheels. The projections will impart a jar to the mechanism during the rotation of the wheels provided therewith. Instead of placing the projections upon the steering-wheel or wheels, I may place them on the driving wheels, or I may dispense with same entirely where the toy is intended to be drawn over rough roads or surfaces.

What I claim as my invention is:

1. The combination of a platform, a miniature gun rotatably mounted thereupon, and means to force powder through the gun in the form of puffs to simulate smoke.

2. The combination of a platform, wheels therefor, a motor to rotate said wheels, a miniature gun carried by the platform, and means actuated by the motor to force powder through said gun in the form of puffs to simulate smoke.

3. The combination of a miniature gun, a magazine connected thereto to contain powder, said magazine comprising a bellows, and means to actuate the bellows to force said powder through the gun to simulate smoke.

4. The combination of a support, a rotatable turret carried thereby, a miniature gun projecting through said turret, a magazine within the turret to contain powder, said magazine being connected to said gun, and means to force the powder out of the magazine through said gun in the form of puffs to simulate smoke.

5. The combination of a support, a rotatable turret carried thereby, a miniature gun projecting through said turret, a bellows also within the turret arranged to force powder through said gun, and means to simultaneously rotate the turret and actuate said bellows.

6. The combination of a support, wheels carried thereby, a rotatable turret carried by the platform, a miniature gun carried by the turret, a bellows also within the turret arranged to force powder through said gun, and means to rotate said wheels and the turret and to actuate said bellows simultaneously.

7. The combination of a support, a miniature gun carried thereby, a bellows to force powder through said gun, a pin contacting with the movable wall of said bellows, a crank to actuate said pin, and a motor to actuate said crank.

8. The combination of a support, a rotatable turret carried thereby, rotatable bearing members upon which the turret rests by gravity, a miniature gun carried by the turret, means to force powder through said gun, and means to rotate said bearing members and actuate the powder forcing means simultaneously.

9. The combination of a miniature gun, a magazine connected thereto to contain powder, consisting of a bellows having an angularly disposed movable lower wall, the angle of inclination being in the direction of the breech of the gun, whereby the powder within the magazine will gravitate toward the said gun, and means to actuate said movable lower wall to force powder through said gun.

10. The combination of a platform, wheels carried thereby, a rotatable turret also carried by the platform, a miniature gun carried by the turret, a magazine within the turret, to contain powder, connected to said gun, said magazine consisting of a bellows having a lower movable wall, a vertically disposed longitudinally movable pin carried by the platform and contacting with said movable wall, a crank to actuate said pin, means to rotate said turret, and a spring motor to rotate said wheels and to actuate the turret rotating means and said crank.

11. The combination of a platform, wheels carried thereby, a rotatable turret also carried by the platform, a miniature gun carried by the turret, a magazine within the turret, to contain powder, connected to said gun, said magazine consisting of a bellows having a lower movable wall, a vertically disposed longitudinally movable pin carried by the platform and contacting with said movable wall, a crank to actuate said pin, rotatable bearing members carried by the platform upon which the turret rests by gravity, and a motor to rotate said wheels, the turret bearing means and to actuate said crank.

12. The combination of a miniature gun, means to force powder through the gun, and

jarring means to agitate the powder to cause it to settle toward the breech of the gun.

13. The combination of a support, a miniature gun carried thereby, a bellows to force a powder through the gun, means to actuate the bellows, a spring actuated, agitating pin arranged to snap against said support to impart a jar to the powder supply to cause the powder to settle toward the breech of the gun, and means to operate the bellows actuating means and to compress the spring for the agitating-pin whereby said pin will be forced against said support when said spring is released.

14. The combination of a rotatable support, a miniature gun carried thereby, and means associated with the gun to simulate smoke at intervals during the rotation of the gun.

15. The combination of a support, a turret rotatably supported thereby, a miniature gun carried by the turret, means to force powder through the gun in the form of puffs to simulate smoke, means to rotate the turret, and means independent of the turret operating means to operate the powder forcing means.

Signed at New York city, N. Y., this 16 day of January, 1918.

ALEXANDER N. SCHANSCHIEFF.

Witnesses:
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EDWARD A. JARVIS.

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