2 Sheets—Sheet 1.

R. W. CHURCHILL.

TOY PISTOLS.

No. 190,825. Patented May 15, 1877.

Fig. 1.

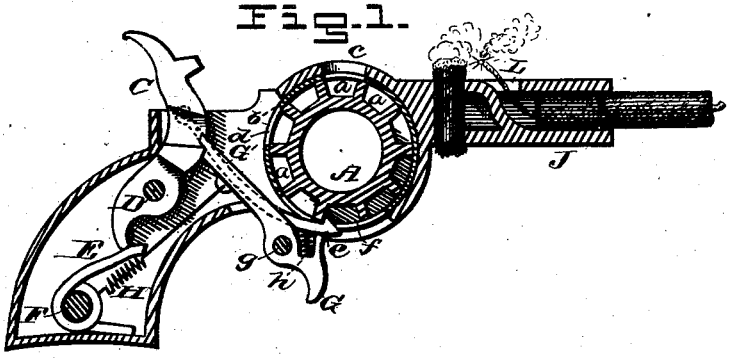


Fig. 2.

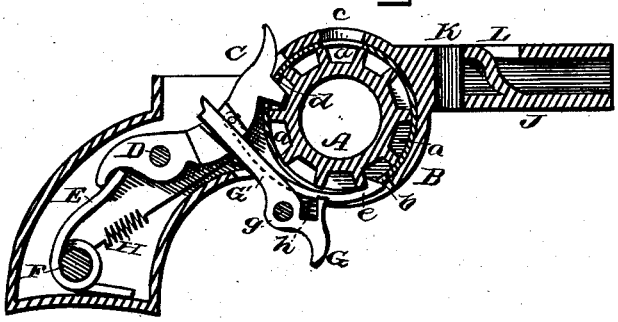


Fig. 3.

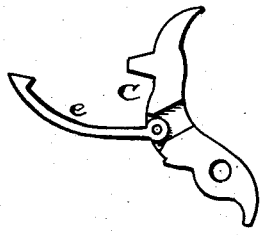
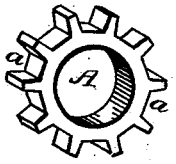


Fig. 4.



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2 Sheets—Sheet 2.

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TOY PISTOLS.

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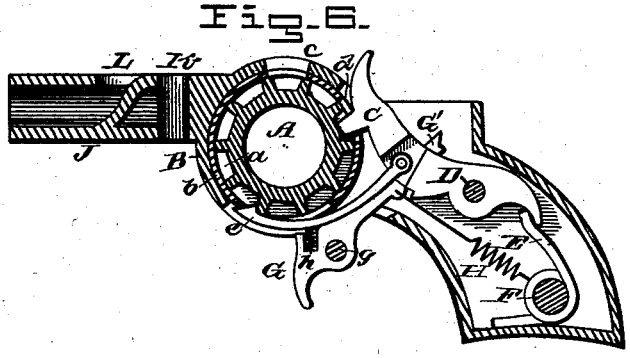
Fig. 5.

Fig. 6.



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UNITED STATES PATENT OFFICE.

ROBERT W. CHURCHILL, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR OF ONE-HALF HIS RIGHT TO CHAS. E. ALVORD, OF SAME PLACE.

IMPROVEMENT IN TOY PISTOLS.

Specification forming part of Letters Patent No. **190,825**, dated May 15, 1877; application filed April 17, 1877.

To all whom it may concern:

Be it known that I, R. W. CHURCHILL, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Toy Pistols; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same.

The invention is in the nature of a compound or combined toy pistol for exploding caps and shooting fire-crackers.

The invention consists, first, in a toy pistol having a revolving cap-cylinder, whose axis is parallel with the fulcrum of the hammer, which hammer is adapted to enter chambers in the cylinder for the purpose of exploding caps or like detonating material placed therein. The invention also consists in constructing such a pistol with a barrel, into which fire-crackers are inserted tail foremost, and combining therewith, at its breech, a receptacle for lighted punk, the tail of the fire-cracker coming into contact with the lighted punk or other fire-bearing device, and, being ignited, the fire-cracker is expelled from the barrel, butt foremost.

In the drawing, illustrating my invention, Figure 1 is a longitudinal section of the pistol, showing the hammer at full cock. Fig. 2 is a similar view, showing the hammer down; Fig. 3, a side elevation of the hammer and cylinder revolving pawl detached; Fig. 4, a perspective view of the cylinder removed; Fig. 5, a top view; and Fig. 6, a longitudinal section, looking at the side of the pistol, opposite that shown in Fig. 2, and illustrating the position of the cylinder-revolving pawl.

The letter A designates a cylinder, having a number of cells or chambers, *a*, in its periphery, and revolving within a chamber, B, of the pistol-casing. The cylinder, within its chamber, is peripherally inclosed by a bearing-shell, *b*. The chamber B and shell *b* are made with openings *c*, whereby the caps or other detonants may be placed in the cells or chambers *a* of the cylinder, the shell preventing such caps, &c., from falling out as the cylinder is revolved. The cylinder is revolved by means of a pawl, *e*, attached to the hammer, and engaging with the chambers of the cylinder, as fully shown, a slot, *f*, being made in the chamber B and shell *b*, for the purpose of permitting this. The hammer C, to which the pawl *e*, as aforesaid, is attached, is secured upon a pin, D, parallel with the axis of the cylinder A, and receives its power from a spring, E, arranged upon a post, F, in the handle of the pistol. The hammer is supported, when cocked, by a notched tail-piece, G′, of the trigger G, the notch in said tail-piece engaging with an offset on the hammer when cocked, and being disengaged therefrom by the action of the trigger. The trigger is pivoted at *g* to the handle or stock, and is provided with a spring, H, which keeps its tail-piece in contact with the hammer. Beneath the pawl *e* is arranged a spring, *h*, which keeps said pawl in contact with the cylinder; and, if desired, this spring may be placed in a recess in the trigger. J is the barrel, in which is an opening, L, and at the breech of which is a hole, K, designed to receive the lighted punk or other fire-bearing material.

The operation is as follows: The cylinder, whose axis of rotation is parallel with the fulcrum of the hammer, may have a fixed shaft or journals; but I prefer that it should simply revolve within the shell *b* upon its own periphery. A cap or other detonant is placed through openings *c* into the chamber or cell *a* and the hammer cocked, and as it is drawn back it carries with it the pawl *e*, which feeds the cylinder around the length of one cell and holds it. As the hammer descends, the pawl moves forward to another cell, and at the next cocking of the hammer the cylinder is fed forward again, and so on. As the cylinder revolves, its cells are successively presented opposite an opening, *d*, in the chamber B and shell *b*, and through this opening *d* the nose of the hammer forcibly enters as it descends and into the cell, and, falling upon the cap contained therein, explodes it.

The barrel of this pistol is used for firing crackers. The tail or fuse end of the cracker is inserted in the barrel and its tail drawn through the opening L, so as to come into juxtaposition with the hole K, in which a piece of punk or other fire-bearing substance is

placed. As the tail is ignited and burns down sufficiently the cracker explodes and is expelled, butt-end foremost, from the barrel.

By having the hammer and cylinder in the same plane, and moving in the same direction, the construction is greatly simplified.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The cap-cylinder A, having peripheral cells or cap-chambers *a*, in combination with the chamber B and shell *b*, substantially as described.

2. The combination of the revolving cylinder A, having peripheral cells *a*, with the hammer of a toy pistol, and the spring-pawl *e*, substantially as described.

3. The combination of the cap-cylinder A, the hammer C, pawl *e*, spring tail-piece G′, and trigger G, substantially as described.

4. In a toy pistol barrel from which fire-crackers are shot butt foremost, the opening L and a punk or lighter receptacle, K, substantially as described.

5. A toy-pistol constructed with a cap-exploding mechanism, a punk-receptacle, and a barrel adapted to shoot fire-crackers, substantially as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ROBERT W. CHURCHILL.

Witnesses:

WILLIAM C. WILDMAN,

GEORGE F. WILDMAN.