W. ROEDER.

AUTOMATICALLY OPERATED GUN FOR SCARING BIRDS OR LIKE PURPOSES.

APPLICATION FILED APR. 16, 1909.

952,018. **Patented Mar. 15, 1910.**

Fig. 1

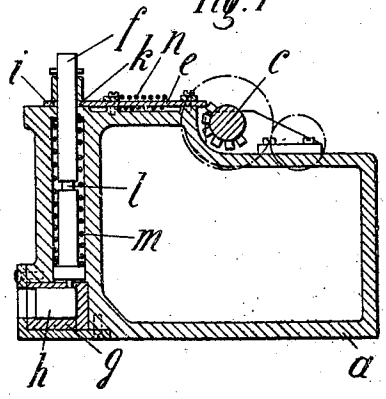


Fig. 3

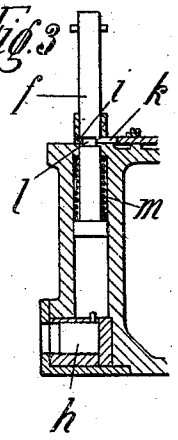


Fig. 2

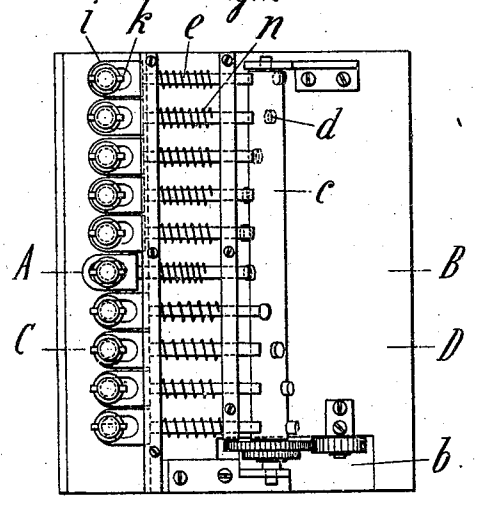
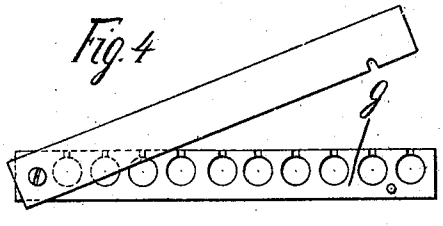


Fig. 4



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UNITED STATES PATENT OFFICE.

WILHELM ROEDER, OF HANOVER, GERMANY.

AUTOMATICALLY-OPERATED GUN FOR SCARING BIRDS OR LIKE PURPOSES.

952,018. Specification of Letters Patent. Patented Mar. 15, 1910.

Application filed April 16, 1909. Serial No. 490,403.

To all whom it may concern:

Be it known that I, WILHELM ROEDER, engineer, a citizen of Germany, residing at Hanover, Germany, have invented new and useful Improvements in Automatically-Operated Guns for Scaring Birds or Like Purposes, of which the following is a specification.

This invention relates to automatically operated guns for scaring birds, signaling or like purposes, of the type in which the locking members of a series of striking bolts disposed side by side are operated by clockwork to release the striking bolts consecutively and so discharge the cartridges.

In a previous construction the locking members after being released by the clockwork had to be replaced singly by hand to retain the striking bolts in their raised position, but this arrangement occupied considerable time and there was always a chance of the striking bolts being inefficiently retained so that the vibration of the apparatus after the first cartridge had been discharged was liable to release some of the other striking bolts before their turn. Moreover, even when the striking bolts had been properly made to engage their retaining members the vibration caused by firing loosened the remaining locking members which usually engaged grooves formed on the striking bolts.

According to this invention these disadvantages are obviated by the locking members being automatically forced into grooves on the striking bolts by means of springs. Further, rotating tappets first employed for moving the striking mechanism with such guns in connection with a primer band traveling under a striking member, are according to this invention used with a cam shaft for actuating the locking members. The arrangement according to the present invention is such that the device can be used in any position without danger of premature release of the striking bolts, and further to reset the striking bolts it is merely necessary to pull them upward into their raised position, their retention in this position being automatically effected by the spring-controlled locking members; further any loosening of the retaining members is prevented by means of these springs.

In the accompanying drawings which show a construction of apparatus according to this invention, Figure 1 is a cross section taken on the line A—B of Fig. 2. Fig. 2 is a plan. Fig. 3 is a section on the line C—D of Fig. 2, and Fig. 4 shows a cartridge carrier in side elevation.

A casing *a* is provided for clock-work mechanism *b* which rotates a spindle *c* on which are mounted a number of tappets *d* which successively shift locking members *e* when the spindle rotates so that the striking bolts *f* are released and strike the pins of cartridges *h* in the carrier *g*. The locking members *e* carry plates *i* which are slotted at *k*, the dimensions of the slot being such that when the striking bolts are in their raised position as in Fig. 3 the extremities of the plate *i* engage grooves *l* formed on the striking bolts. As soon, however, as the locking member *e* has been moved against the action of its spring *n* to advance the plate *i* the bolts *f* can freely pass through the widened portion of the slot *k* under the action of a coiled spring *m*. When the bolt has again been pulled up, the spring *n* forces the locking member *e* back into its normal position and so moves the plate *i* into the position shown in Fig. 3 where it will engage the groove *l* when the striking bolt is again raised.

The cartridge carrier or magazine *g* can easily be removed for purposes of re-charging or cleaning; the clock-work *b* may be disposed in the center of the casing *a* or in other desired position as may be found most convenient.

What I claim is:

1. A device of the character described, comprising a cartridge magazine, a series of spring-influenced bolts, a series of spring-influenced locking-members adapted to engage the bolts, a rotatable spindle, and tappets on the spindle adapted to successively actuate the locking-members.

2. A device of the character described, comprising a cartridge magazine, a series of grooved spring-influenced bolts, a series of spring-influenced locking-members having elongated slots adapted to engage the bolts, a rotatable spindle, and tappets on the spindle adapted to successively actuate the locking-members.

Signed by me at Hanover Germany this 3 day of April 1909.

WILHELM ROEDER.

Witnesses:
J. M. BOWCOCK,
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