

No. 773,655.

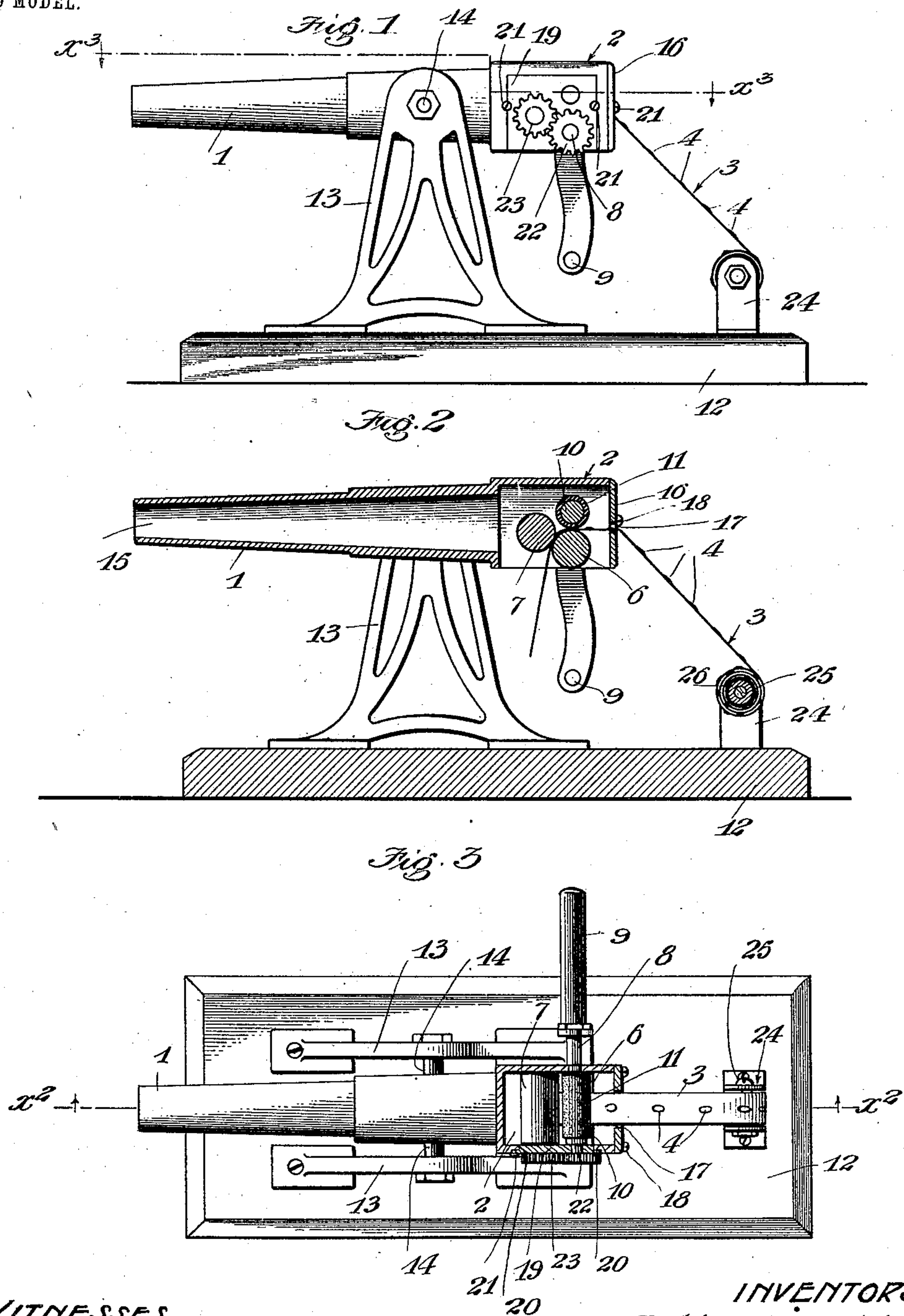
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J. LEOPOLD & M. M. HENKER.

TOY RAPID FIRE GUN.

APPLICATION FILED FEB. 25, 1904.

NO MODEL.



WITNESSES

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UNITED STATES PATENT OFFICE.

JULIUS LEOPOLD AND MAX M. HENKER, OF LOS ANGELES, CALIFORNIA.

TOY RAPID-FIRE GUN.

SPECIFICATION forming part of Letters Patent No. 773,655, dated November 1, 1904.

Application filed February 25, 1904. Serial No. 195,134. (No model.)

To all whom it may concern:

Be it known that we, JULIUS LEOPOLD, a citizen of the United States, and MAX M. HENKER, a subject of the Emperor of Germany, both residing at Los Angeles, in the county of Los Angeles and State of California, have invented a new and useful Toy Rapid-Fire Gun, of which the following is a specification.

The primary object of this invention is to provide a toy gun capable of making repeated detonations in rapid succession.

A further object of the invention is to provide a toy gun in which there will be no danger of injury to the person using the same by contact or proximity of the hand to the hammer or to the detonator.

The accompanying drawings illustrate the invention.

Figure 1 is a side elevation of a toy cannon embodying our invention. Fig. 2 is a longitudinal vertical section on the line $x^2 x^2$ in Fig. 3. Fig. 3 is a horizontal section on the line $x^3 x^3$ in Fig. 1.

1 designates the gun-body, which may be formed in imitation or miniature of a cannon or gun-barrel, and 2 a chamber formed at the rear thereof and containing the devices for operating or setting off the detonating means, such detonating means preferably consisting of a strip 3, provided with caps or fulminate-bodies 4.

The chamber 2 contains two rolls or cylinders 6 7, journaled in the sides of the chamber and located in such proximity that when the tape is passed between them the pressure upon said tape by the rolls will compress and explode the fulminate-caps. The said rolls or cylinders are rigid, unyielding, or inelastic, so that as the fulminate-strip passes between them the fulminate will be forcibly compressed to cause detonation. One of these rolls, as 6, is provided on its shaft 8 with a crank-handle 9 to enable rotation thereof. 10 designates a roller for guiding the strip into engagement with the pressure-rollers 6 7, said guide-roller 10 being desirably provided with an elastic or yielding peripheral portion 11, of rubber or similar material, to prevent the same from operating or setting off the caps.

In case the device is made as a toy cannon

it will be mounted on a suitable support or base 12, as by means of standards 13, on which the cannon is swiveled or pivoted by trunnions 14.

The gun or cannon body may have a bore to complete the resemblance to a gun and facilitate the passage of sound. The rear end 16 of the chamber 2 is desirably provided with a slot 17, through which the fulminate-strip 3 is inserted and which guides said strip between the pressure-roll 6 and the guide-roll 10. This rear end 16 may be fastened to the chamber-body by screws 18, so as to be detachable when it is desired to inspect the rollers. To enable removal of the rollers 6 and to facilitate the construction of the device, one side 19 of the chamber 2 may be formed as a removable plate inserted in the corresponding seat 20 at the side of said chamber and fastened therein by screws 21, the rollers being journaled at one end in said side plate 19 and at the other end in the other side plate of the chamber 2.

To insure operation of the roller 7, gears 22 23 may be provided on the rollers 6 7, so as to communicate motion from one to the other.

24 designates a support or carrier for the fulminate-strip 3, from which the strip is led through the slot 17 aforesaid to the pressure-rollers.

In operation the strip is led from the carrier device 24 through the slot 17 and is thereby guided between the pressure-roller 6 and the guide-roller 10, so that upon turning the handle the rotation of the rollers will carry the strip between the pressure-rollers 6 7, and as each fulminate (indicated at 4) passes between the pressure-rollers it is compressed and exploded, thus producing repeated detonations in rapid succession.

The working parts being entirely inclosed and the explosion taking place in an inclosed chamber, there is no danger to the person using the toy. The usual toy-gun devices are frequently productive of dangerous wounds by action of the hammer or of the explosive on the fingers of the person operating the same, and our invention is particularly designed to do away with such accidents.

The carrier 24 is desirably provided with a

removable pivot-pin 25 for holding the reel 26 of the fulminate-strip, so that the latter may be renewed quickly and easily.

What we claim is—

5 1. A toy gun comprising a gun-body, unyielding pressure-rollers therein for moving and pressing a fulminate-strip, a guide-roller bearing on one of the pressure-rollers for guiding the strip between said rollers, and a
10 handle connected to one of the pressure-rollers.

2. A toy gun comprising a gun-body having a chamber, means for pivotally supporting same, and roller means in said chamber to feed a fulminate-strip and to compress the
15 fulminate to explode same, said roller means comprising unyielding pressure-rollers and an elastic guiding-roller.

3. A toy gun comprising a gun-body having a chamber, and having a slot in its end to guide
20 a fulminate-strip thereinto, unyielding rollers in said chamber to feed and compress said

strip, a yielding roller to guide the strip from the slot to the pressure-rollers, and means for rotating said rollers.

4. A toy gun comprising a gun-body, un- 25 yielding rollers pivotally mounted therein with their peripheries in close juxtaposition, to feed and compress a fulminate-strip, and means for rotating said rollers consisting of a handle connected to one roller and gearing 30 connecting the rollers.

In testimony whereof we have signed our names to this specification, in the presence of two subscribing witnesses, at Los Angeles, in the county of Los Angeles and State of Cali- 35 fornia, this 19th day of February, 1904.

JULIUS LEOPOLD.
MAX M. HENKER.

Witnesses:

ARTHUR P. KNIGHT,
JULIA TOWNSEND.