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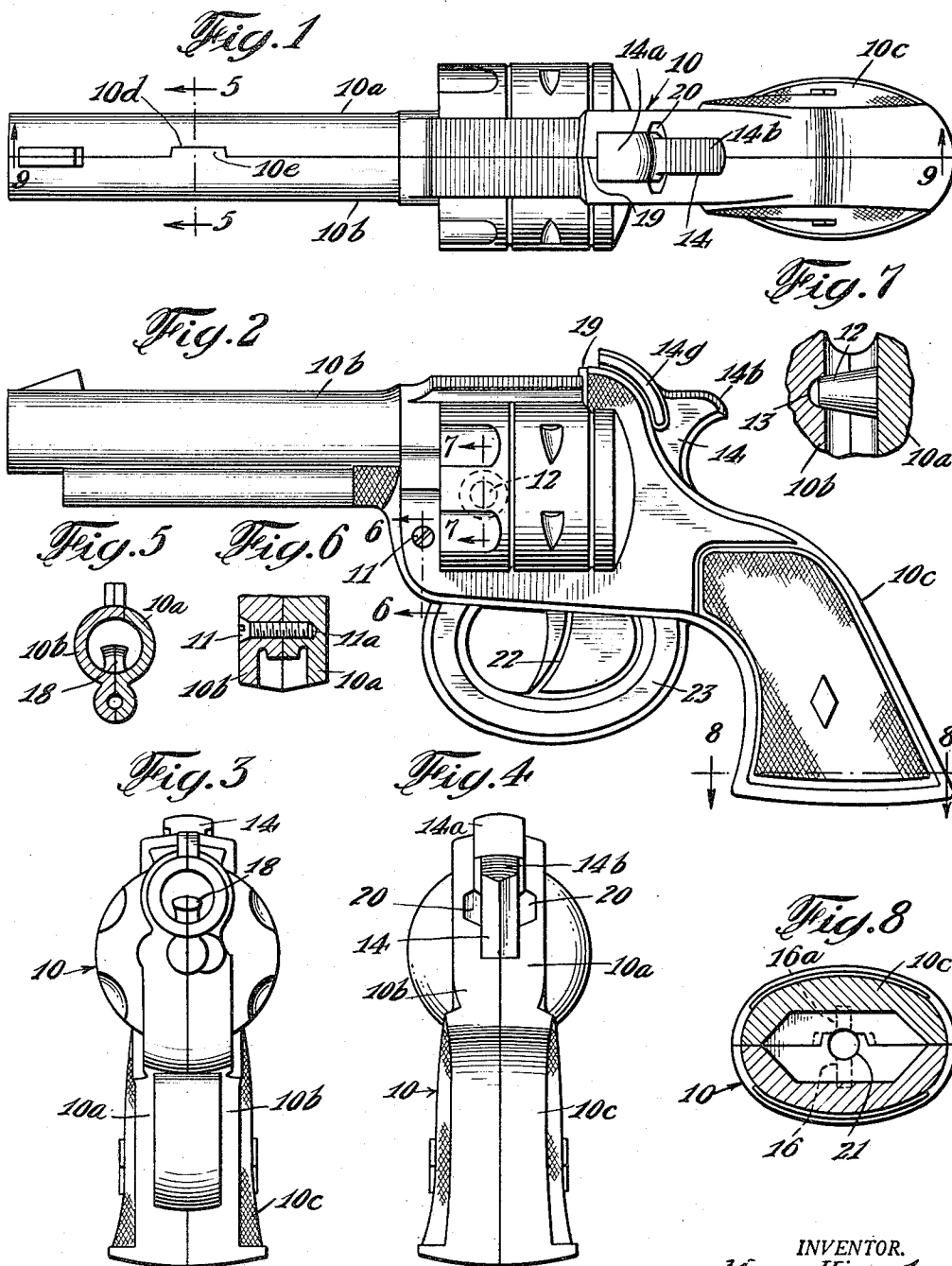
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2,361,843

TOY PISTOL

Filed Oct. 19, 1943

3 Sheets-Sheet 1



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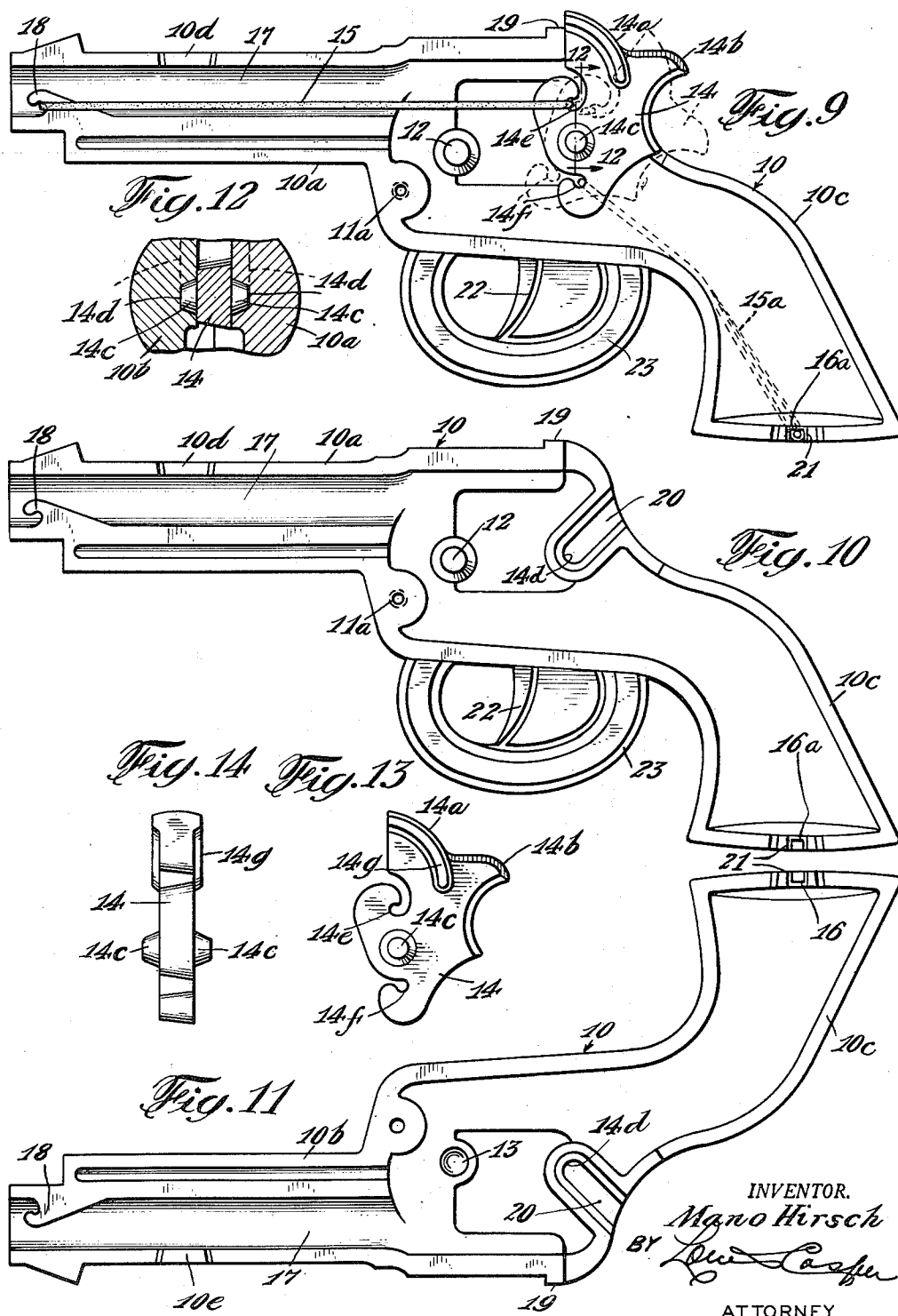
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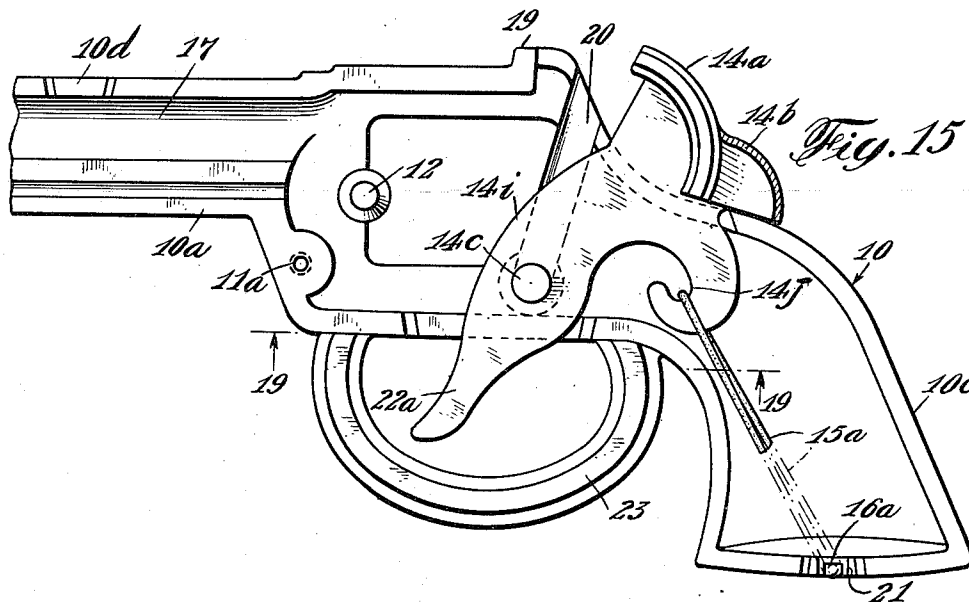


Fig. 17

Fig. 16

Fig. 18

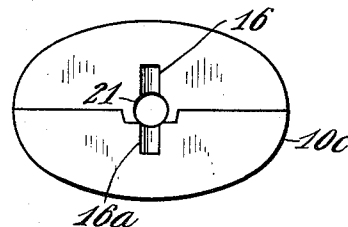
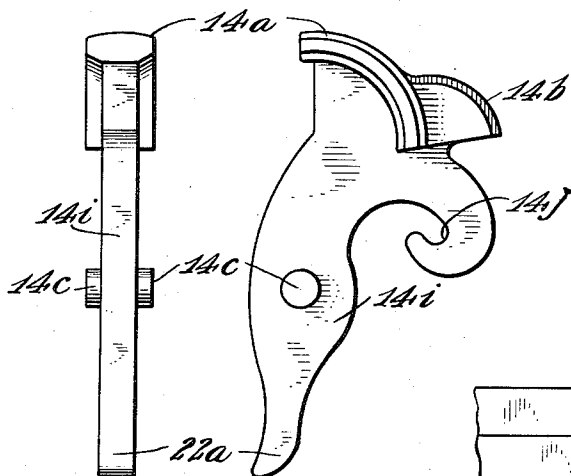
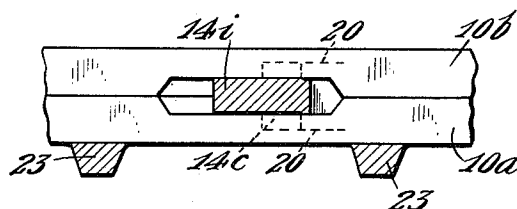


Fig. 19



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UNITED STATES PATENT OFFICE

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TOY PISTOL

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3 Claims. (Cl. 46—191)

My invention relates to improvements in toy pistols, said toy being made up preferably in the form of molds, said molds consisting preferably of a compressed composite material having a woody base.

The invention has for its object the production of a cheap toy having a single movable member insertable into said toy, said insertion of said member providing a percussion medium in connection with a rubber or other resilient band to produce a sharp resonant sound when said member is cocked and then quickly released by the user of said toy.

A further object of my invention is the production of a toy that will withstand rough handling and without recourse to the production of metals and with a minimum usage of other critical materials necessary for the war effort.

A further object of the invention is to enable the manufacture of a toy in quantity production whereby said toy may be sold at a low cost, thereby providing a harmless form of amusement well within the reach of all children who desire such a toy.

Other specific objects of my invention will appear as the description thereof proceeds.

In further description of my invention, reference may be had to the accompanying drawings in which:

Fig. 1 is a plan view of the toy pistol;

Fig. 2 is a side view thereof;

Fig. 3 illustrates a view of the pistol from the mouth of the barrel thereof;

Fig. 4 is a rear view of the pistol, said view being seen from the handle end thereof;

Fig. 5 is a section of the barrel of said toy on the line 5—5 of Fig. 1;

Fig. 6 is a sectional view showing the manner of connecting together the two moulded parts of said toy pistol, the aforesaid view being on the line 6—6 of Fig. 2;

Fig. 7 is a sectional view on the line 7—7 of Fig. 2;

Fig. 8 is a butt end view of the pistol on the line 8—8 of Fig. 2;

Fig. 9 is an interior sectional view of the pistol;

Fig. 10 is a view of the inner portion of one half moulded section of the opposite side of the pistol to that shown in Fig. 11;

Fig. 11 is a view of the opposite half moulded section of the piston to that shown in Fig. 10;

Fig. 12 is a sectional view on the line 12—12 of Fig. 9;

Fig. 13 is a detail view of the hammer piece member which is insertable inside the assem-

bled pistol after the two molded or cast sections are joined;

Fig. 14 is a side or edge view thereof;

Fig. 15 is a view of the inside half of the mould or casting showing the modified hammer member in position;

Fig. 16 is a detail view of said modified hammer member and showing the trigger portion thereof;

Fig. 17 is a side or edge view of the hammer member;

Fig. 18 is a bottom view of the butt end of the pistol toy; and

Fig. 19 is a view on the line 19—19 of Fig. 15 showing the opening that provides the entrance of the hammer member to pass through the assembled moulding or casting and into operable position.

Referring to Figs. 1 and 2, the toy pistol proper is designated by the numeral 10. The pistol consists of two mouldings or castings 10a and 10b which are joined together when assembled by means of the screw 11 that is screwed into the threaded groove 11a. The jointure of the two companion moulded parts is further made secure and immovable after assembly thereof by means of the slotted groove 13d. 10c designates the handle of the pistol.

Referring to Figs. 13 and 14, said figures show the movable hammer member piece 14 which has a hammer head 14a, a thumb retriever portion 14b and a dowel pin 14c, the latter slidably fitting into the slot cavity 14d (Fig. 12) when the member piece is fitted into the toy through the medium of the groove 20. A dowel 12 which is integral to the moulding or casting 10a fits into the cavity 13 when the castings 10a and 10b are joined together. The dowel 12 seated in the manner shown in Fig. 7 serves to hold both castings in rigid position after they have been secured together in the assembly thereof.

The member piece 14 furthermore has a hook portion 14e, said hook portion intended to hold a rubber band or like resilient loop 15, said rubber band being held in position by means of the hook portion 18.

Another loop portion 14f is provided on the hammer piece 14 for holding the rubber band 15a, and which is applied and extended into the handle portion 10c, and is held in position by means of the hook 16. Said rubber band 15 in addition to providing a resilient tension for the hammer piece 14 serves also to hold said hammer piece in position in the slot cavity 14d.

The rubber bands 15 or 15a may be used optionally, but not simultaneously. It will be seen

that the band 15a is the shorter band as compared with the band 15a.

The installation of either band in their respective hook positions 16, 18, makes possible the holding of said member piece 14 in resilient position in the seat thereof in addition to the operable movement of said member piece 14 which movement consists of retracting the hammer head portion 14a thereof when the piece 14 is being pulled away or backed up by the user of the toy pistol aforesaid.

When the band 15 is extended into the barrel 17, it is secured to the hook 18, or if the band 15a is used, it is extended to the hook 16. In either case the effect will be the same, viz., holding the member piece 14a against the slotted pan 19, said action being in resilient opposition to the retraction of the hammer 14a by the user of said toy.

A means for mounting the rubber band 15 inside the pistol through the band portion thereof is as follows: The band is first mounted on the hook 14e of the member piece 14 while said member is disengaged from the pistol proper.

The member piece 14 which as stated is detached from the pistol portion of the toy and with the rubber band attached thereto and being held in the hook 14e is slipped into the pistol through the slot 20. The band is then picked up through the barrel opening by means of a hooked crochet needle or like tool or facility, and brought therewith over the hook 18 and secured thereon. The pistol is then ready to operate.

When it is desired to operate the pistol with the shorter rubber band operating in the handle 10c, the rubber band is secured on the hook 14f of the member piece 14, and then said member piece is slipped into place in the pistol including the rubber band. The rubber band is picked up at its opposite end from that of the end secured at the hook 14f and is brought out through the aperture 21 by means of the hooked crochet needle or similar tool already mentioned. The end loop is then traversed by a small stick or piece of wood 16, and said wooden piece is fitted into the slot 16a, thus securing said rubber band 15a to the extreme end of the handle 10c.

Other means for securing the aforementioned rubber bands in position may be employed.

The trigger 22, as shown in Figs. 10 and 12, has only one function, that of being a fingerhold for the use of the pistol. A trigger guard 23 is also provided. In operating the pistol toy the child pulls the thumb piece 14b backward and then quickly releases his hold of said thumb piece thereby allowing the hammer member to strike forward under the stored up pressure of the stretched rubber band 15 or 15a which causes the head 14a of the member piece 14 to sharply strike the pan 19, thereby producing a short resonant sound resembling, in a manner, a pistol shot.

Referring to Figs. 15 to 19, inclusive, which illustrate a modified arrangement of the toy pistol invention, it will be noted that the hammer member piece 14i is somewhat differently shaped from that of the hammer member piece 14 shown in Fig. 13. The hammer member piece 14i is provided with only one hooking portion 14j for securing one end of the loop of the rubber band or resilient spring 15a, the opposite end thereof being secured at the butt end of the handle 10c in the same manner as described in securing the rubber band 15a in Fig. 9. The hammer member 14i is provided with a trigger portion 22a

and is also provided with dowels 14c which rest in a circular cavity on each side of the pistol casting or moulding when the hammer member piece is inserted into the pistol through the passage 20, as shown in Figs. 15 and 19 after the assembly of the two parts 17 and 18 of the pistol toy proper.

When using the modified toy pistol as described, the pulling of the trigger 22a causes the head piece 14a to strike the pan 19 causing thereby a clicking noise, and upon the quick release of the trigger portion 22a, a further clicking noise is produced by the hammer piece 14b striking the back handle 10 due to the retraction of the band 15a causing a second clicking sound.

In this manner the child has the satisfaction of producing two distinct clicks with each "pull" and "let go" of the trigger portion 22a. A similar trigger guard 23 is provided on the modified toy as that shown in Figs. 9 and 10.

It will be readily seen that the toy pistol consists of only three parts, that of the two castings or mouldings which are joined together forming the pistol proper, and a hammer member formed in a single piece readily insertable and extractible and without the complication of additional working parts common to this class of toy, yet affording the function of a cheap and amusing toy. The hammer member is preferably moulded or cast in a similar manner to that of the two castings or moulds 10a and 10b, and when moulded of the composite material as stated, said member requires no metals or materials in its composition vital to the war effort.

It is understood that the particular toy and modification thereof described above is intended to be merely illustrative and not limitative of the invention, since it is obvious that the invention may be effected by a toy arranged in other different ways, within the scope of the claims.

Now, having described my invention, what I claim is:

1. In a toy pistol of the class described, having a channel opening extending from the top to the underside thereof, a hammer member slidably insertable within said channel opening and seated therein, said hammer member having a hook integral therewith, a rubber band or loop shaped resilient spring attachable to said securing means, securing means within said pistol toy, said rubber band being secured between said hammer securing means and said inner pistol securing means, whereby said hammer is held in resilient position in the seat thereof and, when pulled away from the pan portion of said pistol toy will cause said band to stretch, and upon the finger release of said hammer member will cause the contraction of said band and the consequent striking of said hammer member upon the pan portion of the pistol toy aforesaid.

2. In a toy pistol of the class described having a channel opening extending from the upper portion of said toy to the underside thereof, a hammer member slidably insertable into said channel opening and seated therein, said hammer member having a hook integral therewith; hook means within the barrel bore of said toy, and further securing means at the butt end thereof; a rubber band or resilient spring loop mounted within said pistol, said hammer member securing means enabling the mounting of said rubber band between either said barrel bore securing means and said hammer member securing means, or between said hammer member and said butt securing means, whereby said rubber band is stretched in a manner to resiliently hold said hammer mem-

ber in the seat thereof, and also to hold the head of said hammer member in closed position against the pan portion of said toy; and the pulling away of said hammer member causing said band to stretch, and the sudden release of said hammer member causing the snapping back thereof sharply against the pan portion of the pistol toy aforesaid.

3. In a toy pistol of the class described, said toy being molded or cast in two separate parts, said parts when substantially joined together being provided with a channel opening extending from the top to the bottom of said pistol centrally positioned approximately between the barrel and handle thereof, a hammer member formed in one integral part slidably insertable into said channel aperture and likewise extractable there-

5 from said hammer member operably moveable in said channel after said insertion and the seating therein, said hammer member having securing means integral therewith, a resilient band secured to said securing means, said resilient band being also attached at its opposite end to securing means within said pistol and held in tension between said hammer securing means and said inner pistol securing means whereby said hammer member is held in resilient position within said channel aperture and upon said hammer member being pulled against the tension of said resilient band by the finger of the hand holding said pistol and then released, the upper or head portion of said hammer will strike a portion of the pistol body.

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