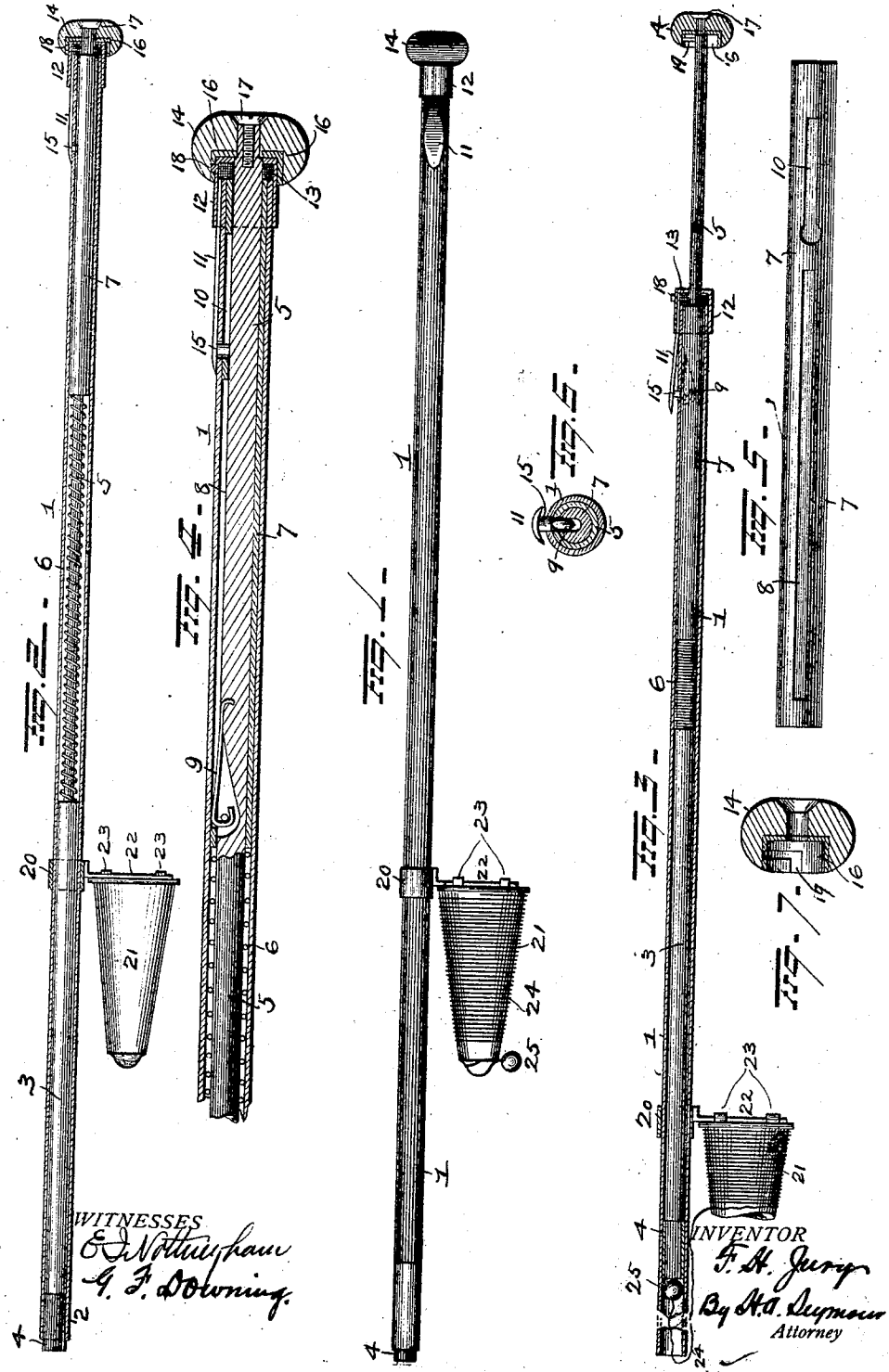
No. 704,646. Patented July 15, 1902.

F. H. JURY.

CANE GUN.

(Application filed July 3, 1901.)

(No Model.)



WITNESSES
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FREDERICK H. JURY, OF NEW YORK, N. Y.

CANE-GUN.

SPECIFICATION forming part of Letters Patent No. 704,646, dated July 15, 1902.

Application filed July 3, 1901. Serial No. 67,031. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK H. JURY, a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Cane-Guns; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in cane-guns, and more particularly to a combined child's cane and toy gun, the object of the invention being to provide a device of this character which when in use as a cane will bear no resemblance to a gun and which when in use as a gun will eject a projectile with considerable force and accuracy.

A further object is to provide an improved removable attachment for the device when in use as a gun, comprising a spool or drum on which is wound a cord secured at one end to the projectile, so as to permit the free flight of the latter, but prevent its loss.

A further object is to provide an improved trigger or firing mechanism which when operated will release the plunger and permit the latter to eject the projectile.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is an elevation of the cane. Fig. 2 is a view in section of the same, showing the spool mounted thereon. Fig. 3 is a similar view showing the device in firing position, and Figs. 4, 5, 6, and 7 are enlarged views of details of construction.

1 represents the tubular body portion of the cane, which also forms the barrel of the gun. This tube 1 is ornamented in any desired manner to represent canes of various materials, and preferably ornamented to illustrate a ferrule 2 at one end, beyond which the plunger 3 projects, and is preferably of wood for lightness and inclosed at its end in a metal tube 4 to prevent wear and which gives the general appearance of the ordinary metal ferrule. The plunger 3 has secured in its inner end a metal rod 5, which extends to the other end of tube 1 and affords a space for a coiled spring 6, disposed on the rod and bearing at one end against the inner end of plunger 3. The other end of said spring 6 bears against the end of a sleeve 7, secured in the tube 1, and in which sleeve 7 the rod 5 is free to slide. This sleeve 7 is made with an elongated slot 8, in which a spring-catch 9, secured to rod 5, is normally mounted; but when the rod 5 is pulled outward to its position for firing this spring-catch 9 will spring up into a short slot 10 in sleeve 7 and hold the plunger in such position until released by the trigger 11, which will now be described. A metal thimble 12 is mounted on the end of tube 1 and may be separated therefrom by an elastic washer 13 to cushion the shock of the handle 14, secured on the end of rod 5, when the latter strikes against the thimble. This thimble 12 is made with an opening to permit the free passage of rod 5, and it secures one end of the trigger 11 in position, said trigger being composed of spring metal in the shape of a tongue and carrying on its under face at its free end a lug or pin 15, located in a hole in tube 1 alining with the enlarged end of slot 10, so that when the catch 9 springs up into slot 10 it will engage pin or lug 15 and raise the free end of trigger 11, so that in order to discharge the projectile it is necessary to press the trigger downward and force catch 9 out of slot 10, when the spring 6 will force the plunger 3 forward and throw out the projectile.

The handle or knob 14, heretofore referred to, may be of any material and design to represent the handle of a cane and is made with a socket in which a cup 16 is secured, and in this cup the rod 5 is centrally secured by a screw 17, passed through the handle and cup and into the end of the rod. This cup 16 is made in one side with an L-shaped slot or groove 19 to receive a lug or pin 18 on thimble 12, and when the handle is given a partial turn, with the lug 18 in the slot or groove 19, the handle will be securely locked against accidental movement and prevent movement of the plunger.

When the device is to be used as a gun, I provide a removable attachment therefor consisting of a support 20 and a spool or drum 21, as shown in Fig. 2. The support 20 comprises a sleeve slipped onto tube 1 and pro-

vided with an outwardly-projecting angular arm 22, adapted to receive alined angular eyes or loops 23 on the larger end of the spool and support the latter. This spool 21 is made conical in general shape to permit the free unwinding of the cord 24, which is secured at one end to the larger end of the spool, wound thereon down to the smaller end, and having secured thereto at its free end the projectile 25. When the projectile has been fired, the spool is removed from arm 22 and the cord again wound, when the device can be fired as before. When it is desired to remove the attachment entirely, the cord may be secured in a slit in the smaller end of the spool to prevent unwinding.

It will be seen that my improvements constitute a perfect gun and a perfect cane when the attachments are removed, and as the latter can be conveniently carried in the child's pocket he can always have it about him for use when desired.

Various slight changes might be resorted to in the general form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I would have it understood that I do not wish to limit myself to the precise details set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

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

1. The combination with a cane, of a plunger therein for ejecting a projectile, one end of said plunger constituting the tip or ferrule of the cane.

2. The combination with a tubular cane, of a spring-pressed plunger in said cane and normally projecting beyond one end thereof and means for holding the plunger in position to maintain the spring contracted.

3. The combination with a tubular cane, of a spring-pressed plunger in said cane and normally projecting beyond one end thereof, a catch carried by the plunger and adapted to hold the same in position to contract the spring, and a trigger for releasing said catch.

4. The combination with a tubular cane, of a plunger therein and normally projecting beyond one end thereof, a spring for forcing the plunger in one direction, a handle on one end of the plunger to limit its movement and serve as a handhold to draw the plunger outward and contract the spring, and means for locking said handle to the tubular cane and the plunger in its normal position.

5. The combination with a tubular cane, of a spring-pressed plunger in said cane and normally projecting beyond one end thereof, a handle for the cane comprising a handhold for the plunger, a pin or lug on the cane and an L-shaped slot in a metal cup in the handle to receive the pin or lug and lock the handle against accidental movement and the plunger in its normal position.

6. The combination with a tube, of a spring-pressed plunger in said tube and normally projecting beyond one end thereof, a catch secured to the plunger adapted to hold the plunger in position to contract the spring and a trigger on the tube adapted to release said catch.

7. The combination with a tubular cane, and means therein for ejecting a projectile, of a frame adapted to be removably secured on the cane, a spool removably connected to the frame and of a general conical shape, a cord secured at one end to the spool, wound thereon, and a projectile secured to the other end of said cord.

8. The combination with a tubular cane, and means therein for ejecting a projectile, of a sleeve adapted to be slipped onto the cane, an outwardly-projecting arm on the sleeve, a conical spool having loops or eyes on its larger end to receive the arm, a cord secured at one end to the larger end of the spool and wound thereon toward the smaller end, and a projectile secured to the free end of the cord.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

FREDERICK H. JURY.

Witnesses:
GEORGE W. STRETTON,
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