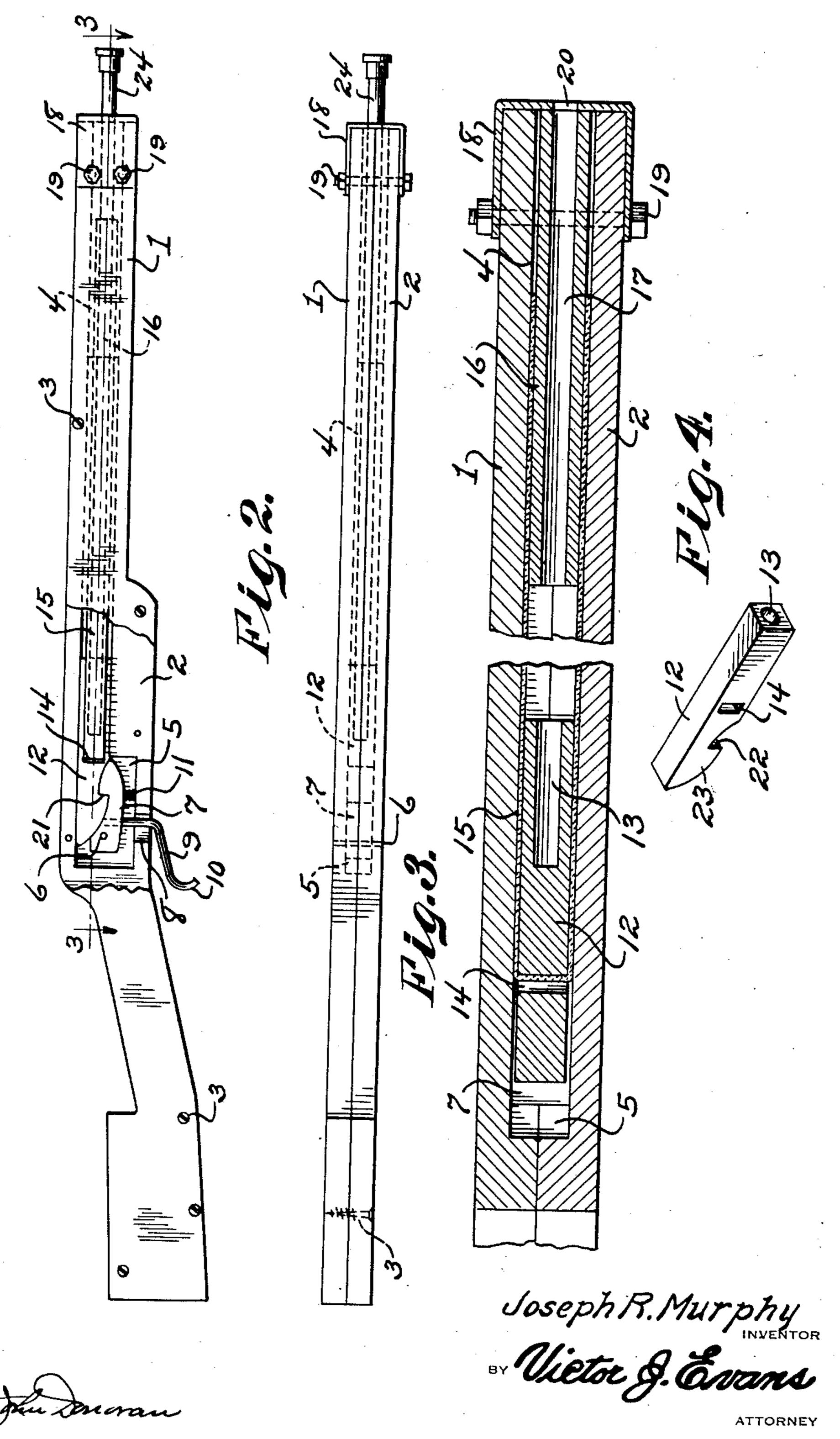
J. R. MURPHY

ARROW SHOOTING GUN

Filed Dec. 22, 1926



UNITED STATES PATENT OFFICE.

JOSEPH R. MURPHY, OF SHELBYVILLE, TENNESSEE.

ARROW-SHOOTING GUN.

Application filed December 22, 1926. Serial No. 156,351.

This invention relates to toys, and its gen- the bottom wall of the chamber respectively eral object is to provide a toy gun of the pro- is a coil spring 11. jectile ejecting type, that is extremely easy to 5 tance with considerable accuracy.

A further object of the invention is to provide a toy gun of the projectile ejecting type, that includes a rubber strip for its ejecting power, that can be replaced when worn or to broken in an easy and expeditious manner portions thereof clamped between the oppowith very little effort.

vide a toy gun that is simple in construction, ings. The block 16 is provided with a bore 17 ice.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, 20 to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claim.

In describing my invention in detail,-reference will be had to the accompanying draw-25 ings wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a side elevation of the toy gun forming the subject matter of the present in-30 vention with a part broken away.

Figure 2 is a top plan view thereof. Figure 3 is a sectional view taken approxi-

mately on line 3-3 of Figure 1, looking in the direction of the arrows.

Figure 4 is a perspective view of the projectile plunger.

Referring to the drawings in detail it will be noted that the stock and barrel portion of the gun are formed from a pair of cooperating sections 1 and 2 shaped to simulate a gun and held together through the instrumentality of screws or like securing elements 3.

The portion of the sections which provide the barrel of the gun are each formed with an elongated recess to provide a bore 4 when the sections are secured to each other as shown in the drawings. The recesses communicate at their inner end with relatively large recesses which form a chamber 5, and pivotally secured in the chamber by a pivot pin 6 is a trigger 7 having extending therefrom and passing through an opening 8 is the trigger control arm 9 having a curved finger portion 55 10. Arranged in the chamber and having its end convolution engaging the trigger 7 and

Mounted for slidable movement in the bore operate and will eject a projectile a great dis-\4 is a plunger 12 which is provided with a 60 bore 13 arranged longitudinally therein and transversing the plunger 12 is an opening 14 through which is passed an elastic strip 15. The elastic strip 15 extends forwardly in parallel portions in a manner to have the end 65 site sides of a block 16 and the walls of the Another object of the invention is to pro- bore 4, as best shown in Figure 3 of the drawincludes few parts, is inexpensive to manu- adapted to register with the bore 13 of the 70 15 facture and is efficient in operation and serv- plunger 12, and in order to positively clamp the end portions of the rubber band in the manner as shown, a substantially U-shaped clamp 18 is secured to the ends of the sections by bolt and nut connections 19 which pass 75 through the sections as well as grooves formed in the side walls of the block 16 so as to retain the block in its operative position. The clamp 18 is formed with an opening 20 disposed in registration with the bore of the 80

The trigger 7 is notched to provide a shoulder 21 which cooperates with the shoulder 22 formed in the plunger which is provided with a cam surface 23 so that when the plunger is 85 forced inwardly by a projectile 24, against the tension of the elastic strip 15, the engagement of the cam surface 23 with the trigger will allow the shoulders of the trigger and plunger to be disposed in contacting engage- 90 ment so as they will be interlocked as best shown in Figure 1. The coil spring 11 acts to retain the trigger in its operative position with the plunger.

From the above description and disclosure 95 of the drawings, it will be obvious that I have provided a toy gun that is extremely simple in construction, and when it is desired to operate the same, the projectile 24 is positioned in a manner to have its inner end ar- 100 ranged in the bore 13 of the plunger 12, the outer end of the projectile is arranged on the ground or other supporting means and by applying weight to the gun, it will be apparent that the projectile will cause the plunger to 105 be moved to its interlocked position with respect to the trigger as best shown in Figure 1. This action stretches the elastic strip and puts the same under tension for ejecting the projectile which is ejected by merely pulling upon 110 the trigger arm 9. In the event the elastic strip should become worn or broken, it can

be replaced by merely removing the clamp 18 and the screws 3 which will allow the sections to be separated so that access may be had to the interior thereof.

The gun may be formed from any material desired, and while I have shown the same provided with flat walls, it can be provided with a round in cross section barrel with a stock portion formed in the usual manner.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

changes in the construction and in the com-15 bination and arrangement of the several the bored block in operative position and parts, provided that such changes fall within the scope of the appended claim.

What I claim is:

A toy gun of the character described com-20 prising a pair of like sections, formed with recesses to provide a bore and a chamber, a

•

trigger pivotally mounted in said chamber, a trigger arm extending therefrom and passing through an opening formed in the sections, a plunger mounted for slidable movement in 25 said bore and being formed with a shoulder to be received by the trigger for holding the plunger in operative position, an elastic strip passing through said plunger, a bored block arranged in the bore of the sections and secur- 30 ing the end portions of the strip therein, and a projectile adapted to be arranged in a bore formed in the plunger for putting the elastic I desire it to be understood that I may make strip under tension and securing the plunger to the trigger, clamping means for retaining 35 being formed with an opening for the passage of said projectile, and screws cooperating with said clamping means for holding the sections together.

.

JOSEPH R. MURPHY.