

H. C. LAUDERMILCH.
 SPRING GUN.
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912,968.

Patented Feb. 16, 1909.

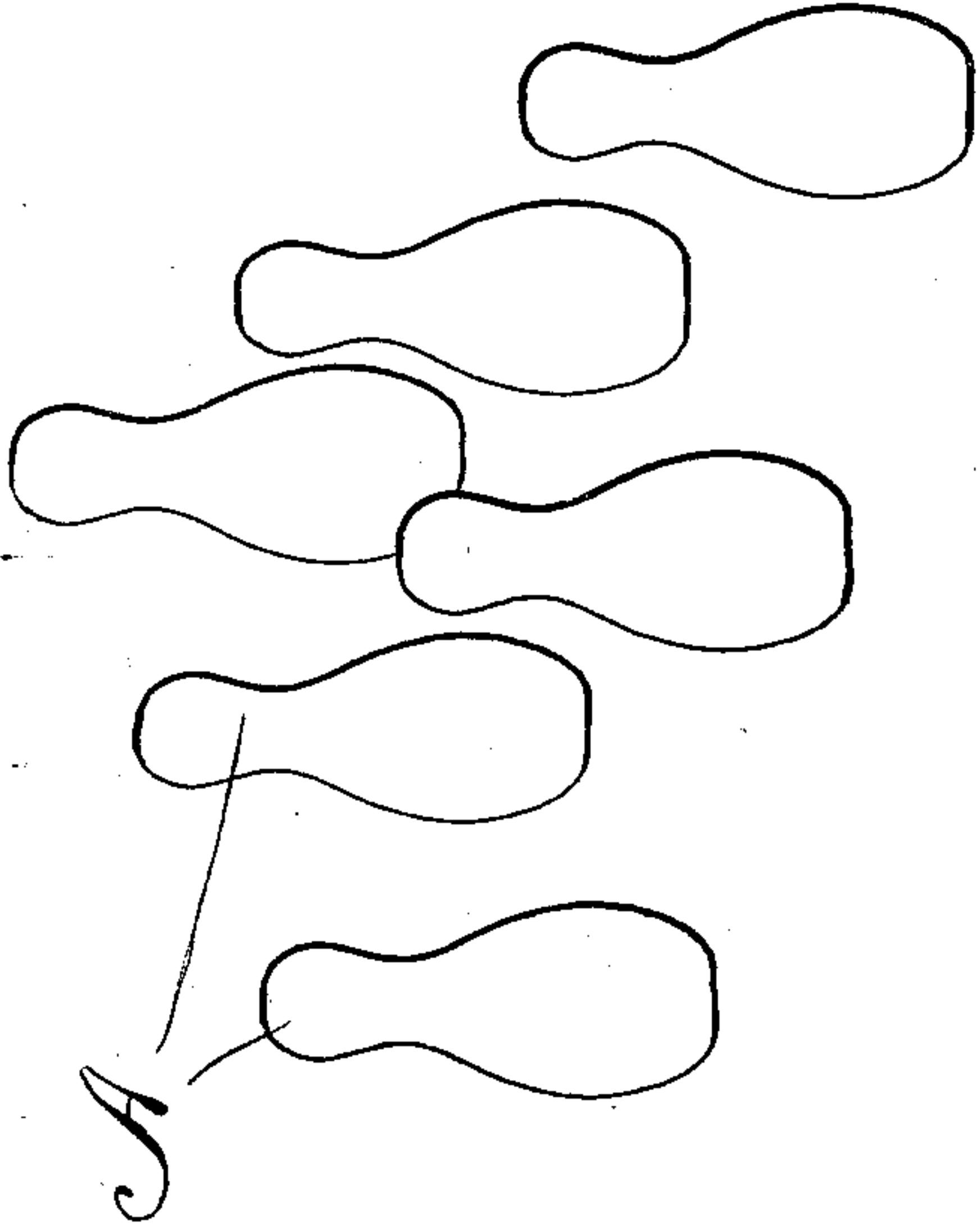
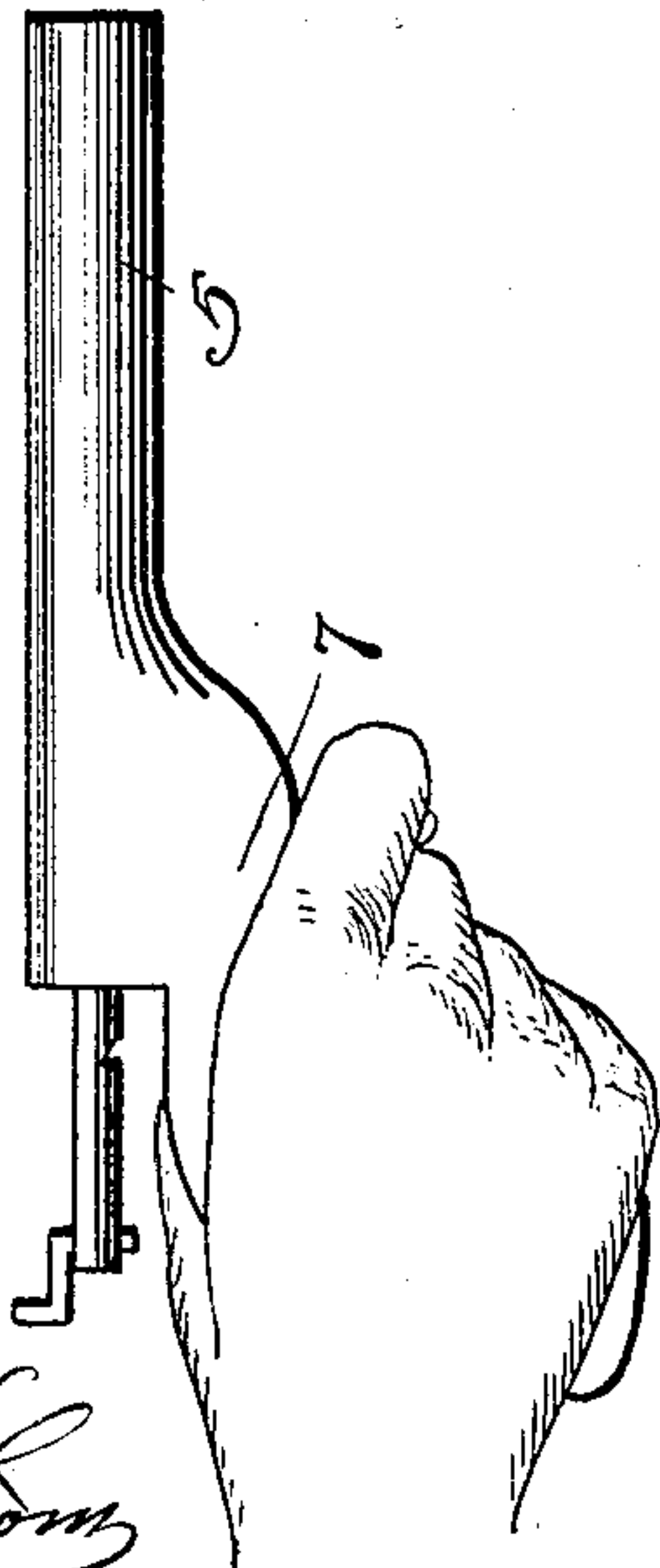


Fig. 1.



WITNESSES
Geo. J. Thom
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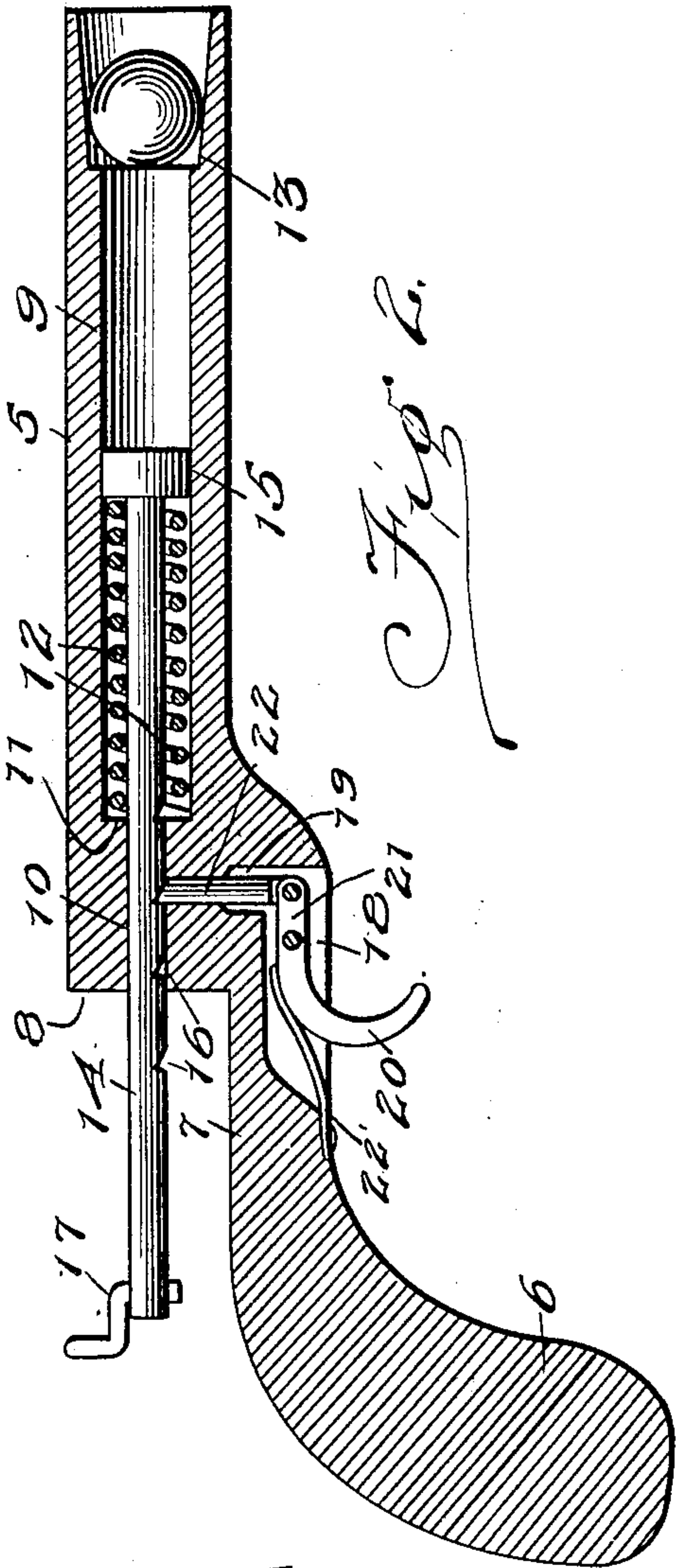


Fig. 2.

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HENRY C. LAUDERMILCH, OF HALIFAX, PENNSYLVANIA.

SPRING-GUN.

No. 912,968.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY C. LAUDERMILCH, a citizen of the United States, residing at Halifax, in the county of Dauphin and State of Pennsylvania, have invented certain new and useful Improvements in Spring-Guns, of which the following is a specification.

This invention relates to games and more particularly to the class of aerial projectile games, and has for its object to provide a game including as a projecting mechanism, a spring gun of novel structure and objects which may be struck by projectiles from the projecting mechanism.

Another object is to provide a gun which may be manufactured and sold at a low figure and thus be within the reach of children.

Other objects and advantages will be apparent from the following specification and it will be understood that changes in the specific structure shown and described may be made within the scope of the claim without departing from the spirit of the invention.

In the drawings forming a portion of this specification and in which like numerals of reference indicate similar parts of the several views, Figure 1 is a view showing the manner of playing the present game, and Fig. 2 is a longitudinal section through the projecting pistol.

Referring now to the drawings, the present game includes a projecting mechanism 5, which is in the form of the pistol, and which includes an integral body portion comprising a forward barrel portion 5, and a rearward grip portion 6, connected by a stock portion 7. The stock portion 7 is vertically reduced, to form a shoulder 8, which is at the rearward end of the barrel portion 5. The barrel portion has a longitudinal passage 9 formed therethrough, which opens through the forward end thereof, and also through the face of the shoulder 8. The extreme rearward end portion of this passage 9 is reduced as shown at 10, to present a forwardly directed shoulder 11, receiving thereagainst the rearward end of a helical spring 12, and the extreme forward portion of the passage 9 is gradually enlarged, to form a bell 13, for the reception of projectiles of different sizes.

Slidably disposed within the passage 9, there is a plunger rod 14, having plunger 15 at its forward end, the plunger being some-

what larger than the rod and receiving against its rearward face, the forward end of the spring 12. The under portion of the plunger rod 14 is provided with a plurality of transversely extending notches 16, having their straight faces directed forwardly, for a purpose to be described. The rearward extremity of the plunger rod extends beyond the shoulder 8, and has engaged therein an angular cocking-pin 17, which prevents disengagement of the plunger from the passage 9 and also presents a finger piece by means of which the plunger may be moved rearwardly through the passage, to place tension upon the spring 12.

A longitudinally extending recess 18 is formed in the under face of the stock portion 7, and this recess communicates at its forward end with a vertically extending passage 19 communicating with the rearward portion of the passage 9. A trigger 20 is pivoted in the recess 18, extending downwardly there below, and having a forwardly directed upper end portion. This forwardly directed portion is indicated at 21, and has pivoted thereto a vertically extending pin 22, which projects upwardly through the passage 19, into position for engagement with the notches 16 of the plunger rod 14.

A strap spring 22' is secured to the stock portion 7, and bears at its forward end against the trigger 20, the arrangement being such that the forward end portion of the trigger is held in elevated position, with the pin 22 normally projected into the passage 9, and thus in position to engage the notches 16.

When the plunger rod is moved rearwardly by means of the cocking pin 17, it may be moved to engage any desired notch 16 with the pin 22, it being understood that by reason of the provision of a plurality of these notches, the tension upon the spring 12 may be regulated to suit the desires of the user. A marble or other suitable projectile is then placed in the bell 13, and the pistol may be aimed, after which rearward movement of the trigger by the finger of the operator will release the plunger and the latter will be propelled forwardly by the spring, to strike the marble and project it from the pistol.

What is claimed is:

In a spring gun, the combination with a stock portion, of a forwardly extending barrel carried by the stock portion and

formed integral therewith, a rearwardly and downwardly extending grip portion formed integral with the lower portion of the stock, the upper portion of the rearward face of the stock having a passage opening there-
5 through and extending forwardly through the stock, said barrel having a passage formed therein and communicating with the passage of the stock, the passage of the
10 barrel being larger than the passage of the stock to form a shoulder at the rearward end of the barrel, a helical spring engaged against the shoulder, and lying within the barrel, a rod slidably engaged in the passage
15 of the stock and extending through the spring, a plunger carried by the forward end of the rod and engaging the forward end of the spring, said rod having a plurality of notches formed therein at its lower
20 portion, said stock having a vertical passage formed therein and communicating with its

first named passage, a trigger pivoted in the lower portion of the stock, a member pivoted to the forward portion of the trigger and slidably engaged in the vertical passage of the stock for engagement in the notches of the rod interchangeably, a spring secured at its rearward end to the grip and bearing at its forward end against the trigger to hold the member in notch-engaging position, and a cock pin including a horizontal central portion, a downwardly directed forward portion and an upwardly directed rearward portion engaged with its downwardly directed portion in the rearward extremity of the rod. 25 30 35

In testimony whereof I affix my signature, in presence of two witnesses.

HENRY C. LAUDERMILCH.

Witnesses:

G. W. SHULTZ,
E. M. SHULTZ.