

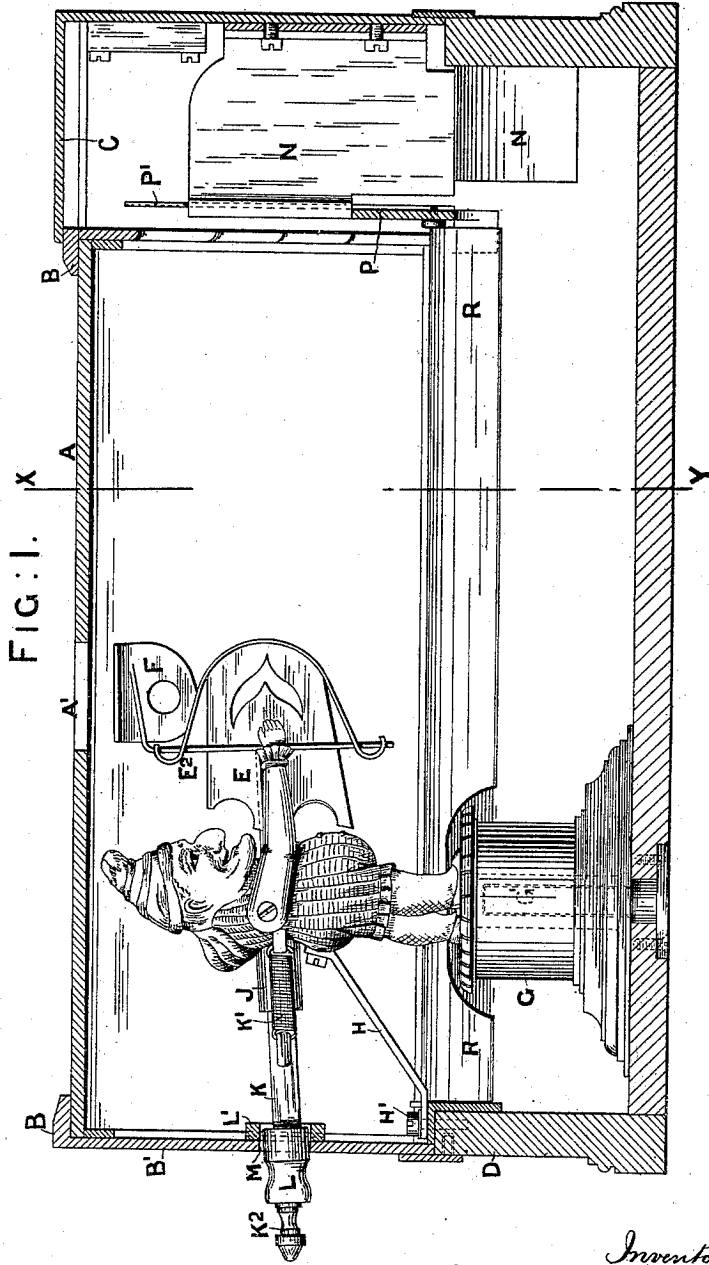
(No Model.)

3 Sheets—Sheet 1.

G. HAYDON & W. VAIL.
COIN SHOOTING MACHINE.

No. 495,734.

Patented Apr. 18, 1893.



Witnesses
Chas. H. Smith
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Inventors
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William Vail
 per *Lemuel W. Serrell*
Atty.

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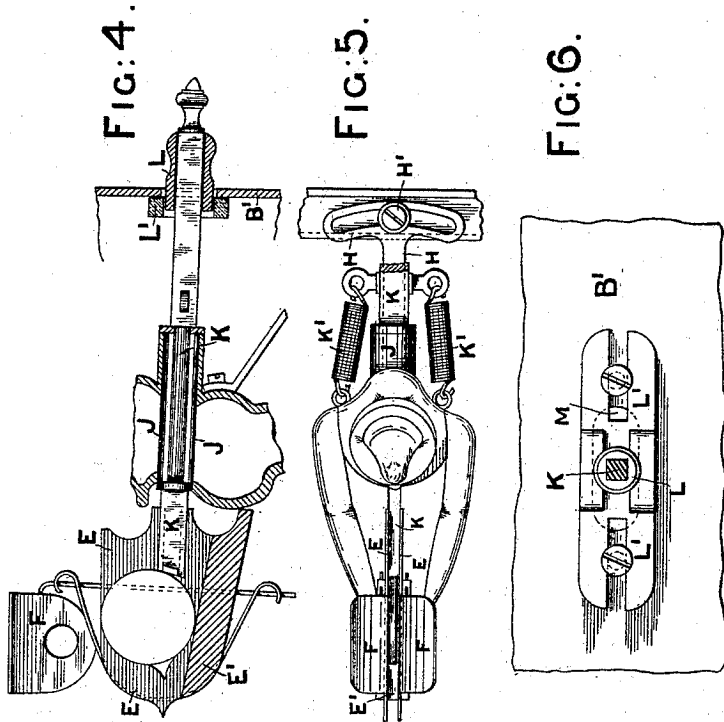
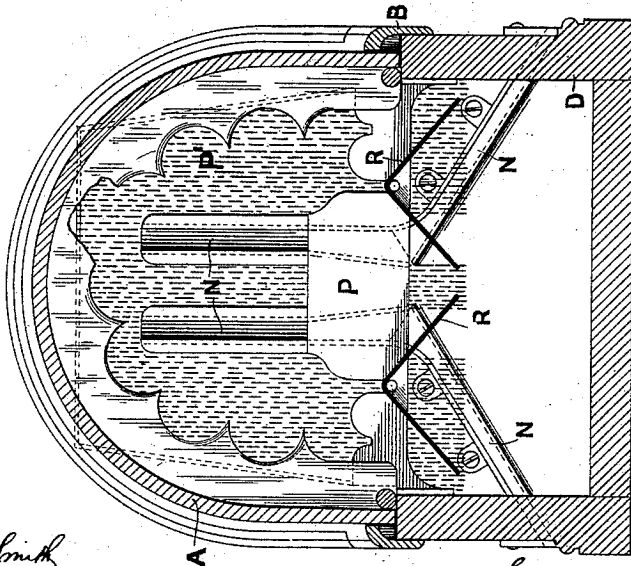


FIG. 2.



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UNITED STATES PATENT OFFICE.

GEORGE HAYDON AND WILLIAM VAIL, OF LONDON, ENGLAND.

COIN-SHOOTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 495,734, dated April 18, 1893.

Application filed January 31, 1893. Serial No. 460,235. (No model.) Patented in England November 2, 1892, No. 19,747.

To all whom it may concern:

Be it known that we, GEORGE HAYDON and WILLIAM VAIL, subjects of the Queen of Great Britain, residing at Walworth, London, in the county of Surrey, England, have invented a certain new and useful Improved Coin-Shooting Machine, (for which a patent has been granted to us in Great Britain, dated November 2, 1892, No. 19,747,) of which the following is a specification.

This invention relates to an improved coin shooting machine wherein skill is necessary to manipulate the same effectually, and our said invention will be readily understood by the following description having reference to the accompanying drawings.

Figure 1 shows in vertical longitudinal section a machine or apparatus constructed according to our said invention, Fig. 2 being a transverse section of same on the line xy of Fig. 1. Fig. 3 is a perspective view of the complete machine, and Figs. 4, 5 and 6 are detailed views hereinafter mentioned.

Similar letters of reference indicate like parts in all the figures.

According to our invention we provide a transparent cover A, of glass having at A' a slot formed therein, through which the coin is to be inserted; the glass cover A is mounted in a frame B extending along its edges, there being a plate B' to form one end, while at the other end the frame B is composed of an edging, fitting into a case C which forms the opposite end of the apparatus, and the case C is fixed to a box D (which may be of wood), extending the entire length and forming the base of the apparatus.

Under the slot A' through which the coin is inserted, we provide what we may call an arrow with a longitudinal slot cut therein to receive the coin, or for constructional convenience, we form the arrow of two side plates E, connected near the lower edges at E', as is shown on the drawings, especially in vertical section and plan at Figs. 4 and 5. The arrow E E' is fitted with an ornamental bow attached to the plate E of the arrow, and the bowstring (formed say of a piece of wire) E² supports on its upper end a guide chute F to guide the coin from the slot A' to the arrow E E'; or the coin chute F and the coin re-

ceiver or "arrow" may be made in one piece by casting or otherwise. The coin receiver (termed in this specification the arrow E) is supported by and fixed to the arms of a figure represented on the drawings by the figure of "Punch," this figure being upon a pedestal G, Fig. 1, mounted to turn upon a pin G' fixed on the base of the apparatus. To the back of the figure and extending rearward there is a stay H (Figs. 1 and 5) with a segmental slot through which a fixed pin or screw H' passes into the base of the apparatus, the stay H thus supporting and limiting the rotary motion of the figure.

Passing through the body of the figure is a sleeve tube J, Fig. 4, through which works a plunger K, the sleeve tube J being arranged as shown to limit the travel of the said plunger in either longitudinal direction, it being retained normally in the position shown by two springs K' K' Figs. 1 and 5; or sometimes the sleeve tube J may be dispensed with and the plunger simply pass through an aperture drilled in a solid figure. The front end of the plunger K works in slots in the arrow E, while the rear end passes through a thimble L pivoted in a slide L', an interior elevation of which is shown at Fig. 6, and beyond the thimble the plunger K is provided with a knob or handle K²; the thimble L passes through a slot M (Fig. 3), in the end plate B' of the frame B. By these means the figure may be turned so that it may be sighted from the exterior of the machine by looking through the glass cover thereof in order that a coin when placed through the slot and received by the arrow E may be shot at targets situated at the opposite end of the machine. The targets are situated within the case C, and consist of two similarly constructed cases or chutes N N Fig. 2 with openings facing the figure; these chutes N are angularly diverted to either side of the case and upon a coin entering either of the chutes it is conducted and delivered to the exterior of the case D.

P is a frame supporting a number of wires, strings of beads, or other yielding screen P', through which the coins shot from the figure pass and fall within the interior of the case when the coins do not enter the chutes N. Should the coins projected by the plunger

not pass through the target chutes N N or through the yielding screen but say were to strike the fixed framing of the targets or to fall short, the said coins would fall into the case between the figure and the targets and would be visible through the transparent cover. This we have found to be disadvantageous as affording temptation to persons to damage the apparatus in order to obtain the coins. To obviate this we provide plates R of an angular section as shown at Fig. 2, mounted to swing on pins supported in bearings at each end, the plates extending from the back of the machine to the screen frame P aforesaid, apertures being cut in the plates R to allow the latter when swung to clear the pedestal G upon which the figure is mounted. Coins falling upon the inclined surfaces of the plates R will deflect same and the coins will drop into the box, so that when a coin is inserted and the knob K² of the plunger K is pulled the fact of releasing the knob brings the springs into action and the coin will be fired from the arrow and will hit the target (if the arrow has been properly sighted) in which case the coin will be returned to the party having introduced it by means of the chute or chutes N which convey it back outside the machine, but when the coin has not hit the target it will strike the flexible cover surrounding the target and drop into the box as aforesaid.

We claim—

1. An improved coin-shooting machine provided with a closed case having a transparent gallery or cover containing at one end targets composed of open mouthed chutes leading to the outside of the case in combination with a figure situated at the opposite end of the case, and provided with a device for shooting a coin (previously inserted therein through a slot in the said transparent cover) the said device being composed of a coin receiving "arrow" E, a plunger K passing through the figure to the outside of the case for acting on the coin, springs K' attached to the said figure and to the plunger K the latter extending to the exterior of the case the figure being mounted on a pedestal G capable of receiving rotary motion about pin G' from the outside of the case by the projecting plunger K aforesaid as set forth.

2. The combination in a closed case hav-

ing a slot A' for inserting coins, of a figure mounted upon a pin G', a stay H with segmental slot and pin for supporting and limiting the motion of the figure, a coin receiving case E and a guide chute F leading thereto, a plunger K extending to the exterior of the case, rearward springs K' for the plunger, a sliding thimble L through which the plunger passes, a slide L' for carrying the thimble, a slot M in the back B' of the case through which the thimble passes, and a knob or handle on the exterior end of the said plunger for actuating same, as set forth.

3. In a closed case having a transparent cover and a slot A' therein for inserting coins, a figure mounted upon a pin G', a stay H with segmental slot and fixed pin for limiting the motion of the figure, a coin receiving case E, and a guide chute F carried by the said figure for conducting the coin to the receiver E from the slot in the case, a plunger K extending to the exterior of the case, rearward springs K' for the plunger, a sliding thimble L in a slide L' through which the plunger passes, and a slot M in the back B' of the case through which the plunger handle or knob projects for being acted upon; in combination therewith of targets, consisting of two open mouthed chutes N N extending to the outside of the case through which chutes the coins may be projected by the spring plunger and returned by the chutes to the operator, a yielding screen P' through which the coins that miss the targets pass to the box, and horizontal rocking plates R located between the figure and the target, between which plates coins may fall into the box as set forth.

4. The combination with an inclosing case having a transparent cover, of a toy figure within such case, a vertical pivot on which the same may be turned, a spring shooting device supported by said figure and provided with a receptacle for the coin or other article to be projected, a slotted target through which the projectile can be discharged and pass outside the case and a receptacle in the case for the articles projected that do not pass through the slotted target, substantially as specified.

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