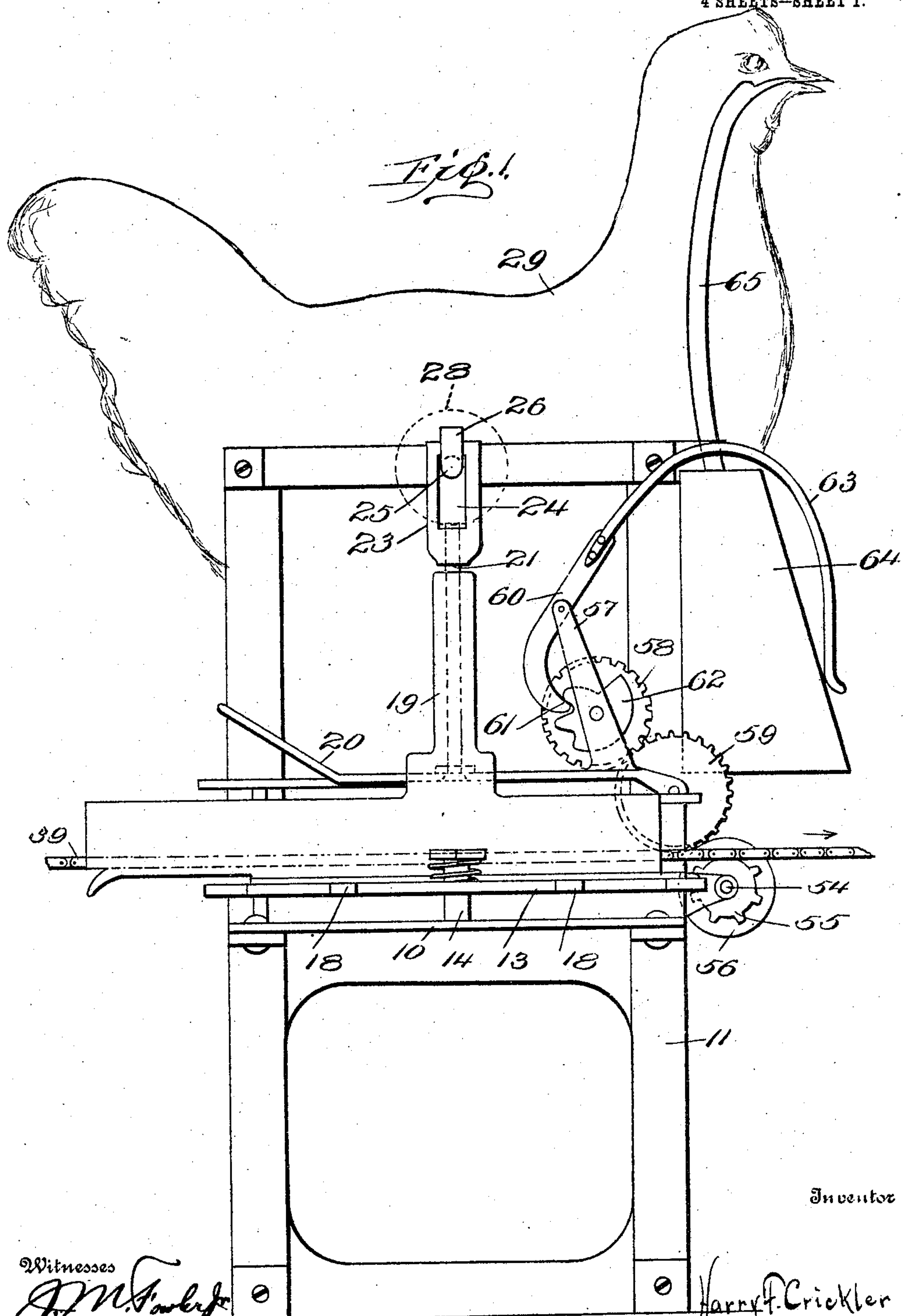


No. 847,242.

PATENTED MAR. 12, 1907.

H. F. CRICKLER.  
AMUSEMENT DEVICE.  
APPLICATION FILED MAR. 15, 1906.

4 SHEETS—SHEET 1.



Inventor

Witnesses

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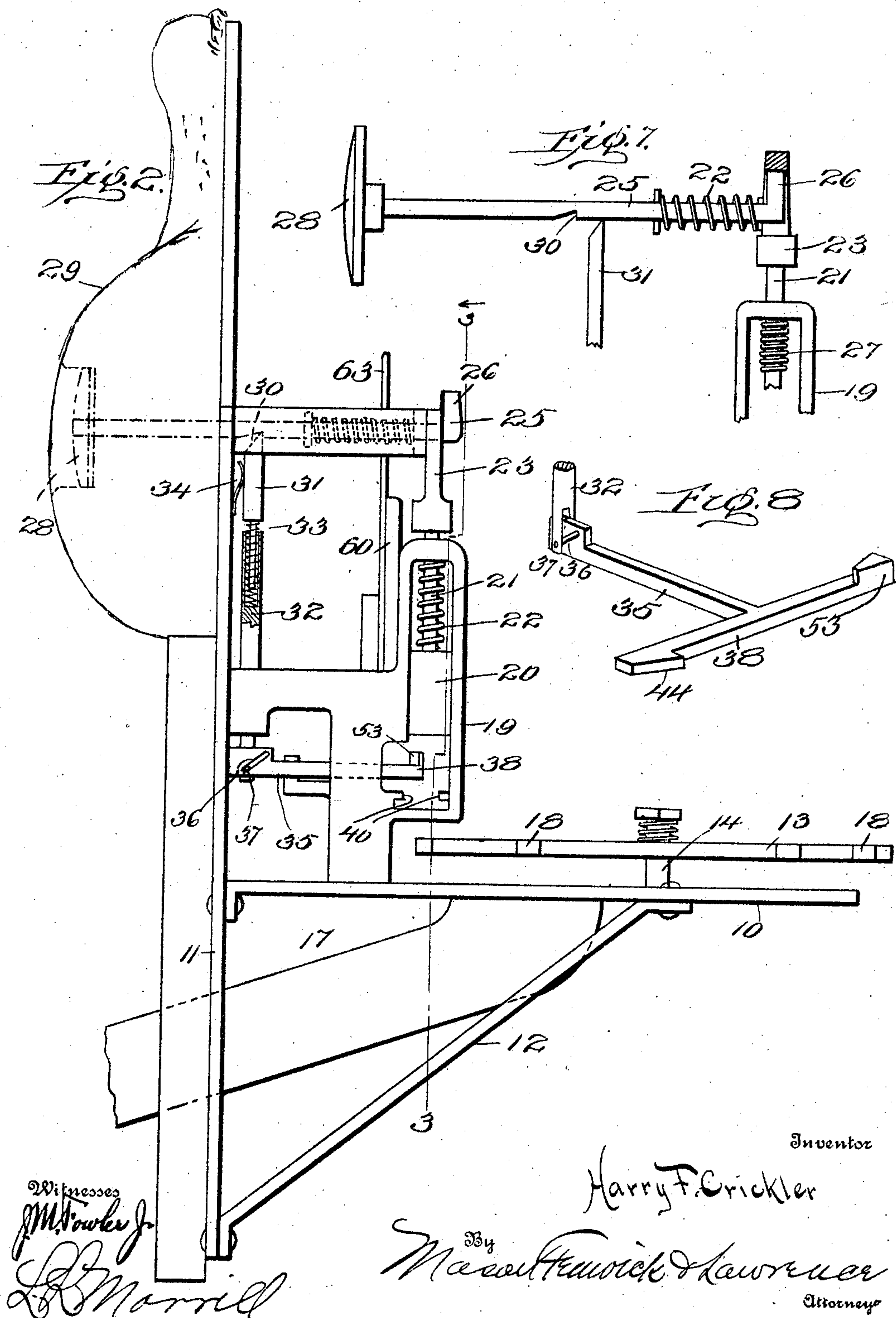
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4 SHEETS—SHEET 2.



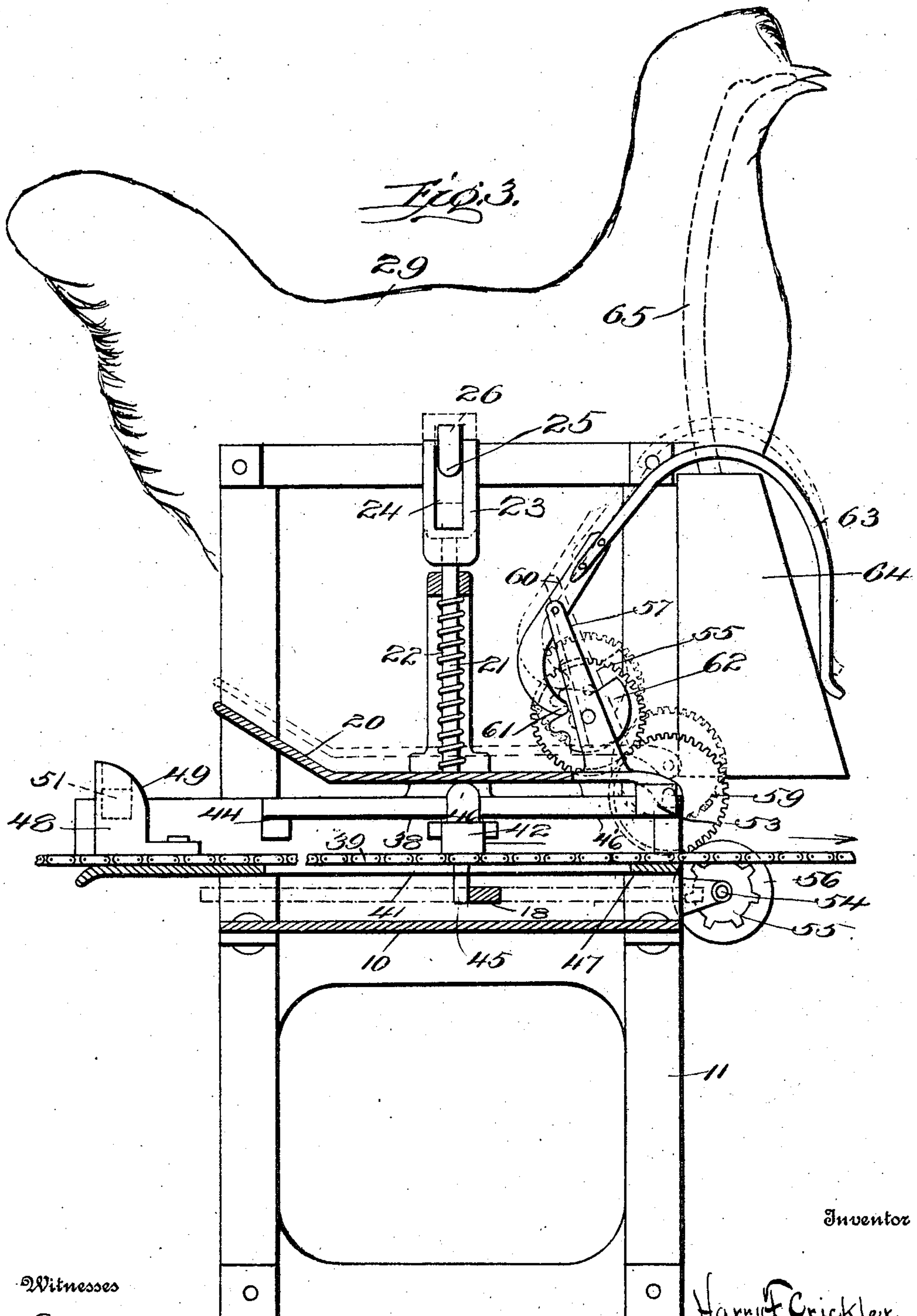
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4 SHEETS—SHEET 3.



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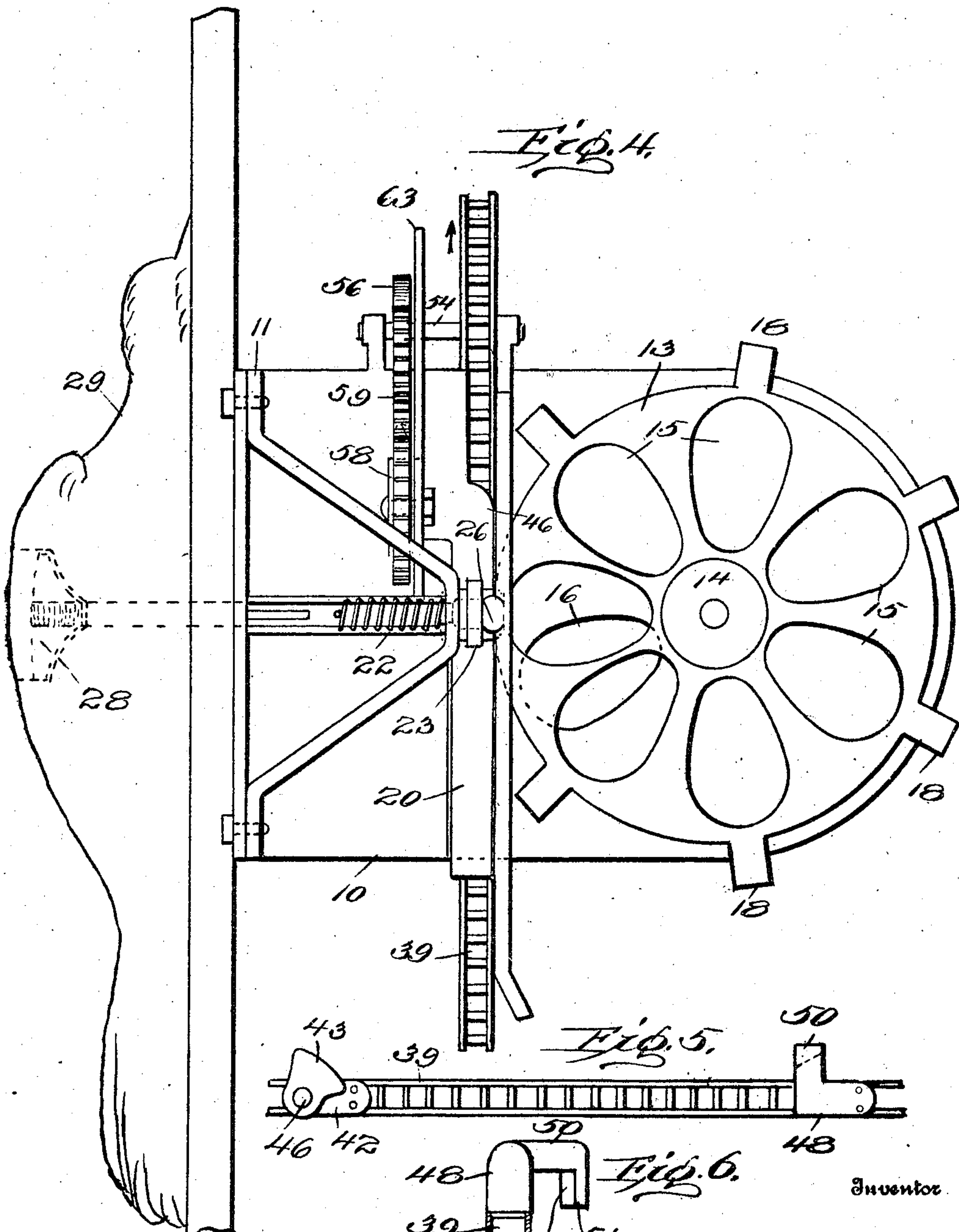


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APPLICATION FILED MAR. 16, 1906.

4 SHEETS—SHEET 4.



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# UNITED STATES PATENT OFFICE.

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## AMUSEMENT DEVICE.

No. 847,242.

Specification of Letters Patent.

Patented March 12, 1907.

Application filed March 15, 1906. Serial No. 306\*294.

*To all whom it may concern:*

Be it known that I, HARRY F. CRICKLER, a citizen of the United States, residing at Wilkes-Barre, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Amusement Devices; 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.

This invention relates to amusement devices, and especially to that class of amusement devices wherein articles are delivered to successful constituents in the use of the device.

A further object of the invention is to provide a target or similar device which may be used in connection with shooting, throwing, or otherwise projecting an object and which, when the target is properly struck by the object, delivers an article to the person throwing or shooting the object.

A further object of the invention is to provide an amusement device embodying a rotating article-carrier in association with a target and a positively-driven member, whereby when the target is struck the moving member is connected with the article-carrier to move the carrier into position to deliver an article.

As specifically shown in the drawings, the invention embodies a target, (here represented as a chicken or bird,) and in association with a rotating carrier provided with apertures proportioned to each embrace an egg and with a positively and constantly driven belt or chain; a mechanism whereby when the target is struck a detent carried by the chain engages the rotating egg-carrier to move the said carrier so that one of the apertures of the said carrier registers with a chute through which one of the carried eggs is discharged.

With these and other objects in view the invention comprises certain novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a view of the improved amusement device shown in rear elevation. Fig. 2 is a view of the device shown in end elevation. Fig. 3 is

a vertical sectional view of the device taken on line 3 3 of Fig. 2. Fig. 4 is a top plan view of the device. Fig. 5 is a detail top plan view of the chain which is positively and constantly driven in association with the device. Fig. 6 is a detail side elevation of one of the detents carried by the moving chain. Fig. 7 is a detail view of the trigger and its associated parts. Fig. 8 is a detail view of the device for operating the trigger-locking means.

Like characters of reference designate corresponding parts throughout the several views.

In its preferred embodiment the improved amusement device forming the subject-matter of this application comprises a table or shelf-like plate 10, carried upon any approved framework, as 11, and made rigid in the usual manner, as by the braces 12. Upon the plate 10 is rotatably mounted an article-carrier 13, being journaled at its center, as 14, and provided with any approved number of apertures 15 of the size and conformation to receive and accommodate the article to be carried and delivered, each of said apertures positioned upon the carrier to register with an opening 16, forming the upper extremity of the chute 17, which passes without the plate and to any convenient position or length. The article-carrier 13 is formed in the shape of a disk and provided about its periphery with a plurality of lugs 18, equal in number to the article-receiving apertures and arranged to pass beneath an upright 19, secured to the frame 11.

Upon the upright is mounted a cam-plate 20, having one end curved upwardly and disposed immediately above the lugs 18 when positioned beneath the upright, the said cam-plate being carried rigidly upon a plunger 21, mounted to reciprocate in the said upright and held normally at its lower extremity by the spring 22, embracing the said plunger 21 and bearing against the bowed upper end of the upright. Upon the upper end of the plunger 21 is carried a yoke 23, provided with an aperture 24, proportioned to embrace the trigger 25. The trigger 25 is provided with an upturned angular portion 26, proportioned to engage within the aperture 24 of the yoke 23 and to hold the said yoke and its associated plunger 21 at its upper extrem-



ity and against the tension of the spring 22. The trigger 25 is provided with a spring 27, arranged to hold the trigger 25 with the upturned portion 26 normally supporting the yoke 23, and is provided at its opposite end with a disk or plate 28, forming a portion of the target 29, and may be of any approved size and placed within the target in any approved position.

The trigger 25 is provided with a notch 30 proportioned to be engaged by the upper end of the latch 31, carried upon the reciprocating bar 32 and provided with a resilient connection, as 33, to permit the reciprocating bar 32 to move longitudinally when the latch 31 is prevented from engaging the notch 30. Upon the frame 11, in any convenient position, is secured a spring 34, arranged to bear against the side of the latch 31 and to move the said latch laterally a short distance toward the yoke 23 when the said latch is out of engagement with the notch 30. For moving the reciprocating rod 32 vertically a sliding bar 35 is provided, having a cam-slot 36, engaging a pin 37, carried by the rod 32 and whereby a movement of the bar 35 causes the pin 37 to ride within the slot 36 and to move the said rod 32 vertically. The bar 35 extends in a horizontal plane beneath the cam-plate 20 and is provided with a transversely-extending arm 38, extending in a horizontal plane at right angles to the bar 35 and above and parallel with the sprocket-chain 39, which is positively driven in any approved manner through the device in the direction indicated by the arrow.

In its passage through the machine the sprocket-chain 39 is held in operative position by guides 40, engaging the outer lateral edges of the said chain and passing over and above a slot 41, formed in the base-plate beneath the upright 19 and immediately above the lugs 18 when therebeneath.

Upon the chain 39 is secured a detent 42, formed with a cam-face 43, positioned to engage the lug 44 of the arm 38 and to move the said arm 38 and its associated bar 35 away from the said chain and by means of the cam-slot 36 to move the rod 32 upwardly. The detent 42 is formed with a vertically-disposed opening in which is mounted a plunger 45, held normally upward by a spring within the said detent and provided at its upper end with a contact-head 46, positioned to be engaged by the cam-plate 20 and to force the plunger 45 through the said detent and chain and through the slot 41 to engage one of the lugs 18 and turn the carrier-disk 13 as the chain moves forward. The cam-plate 20 terminates at 46', which permits the plunger 45 to rise in response to the tension of its spring to escape the shoulder 47, forming a portion of the frame and upon which the chain 39 moves. Also secured to the chain is a second detent 48, provided with a cam-

face 49, positioned and proportioned to engage beneath the cam-plate 20 and to raise the said plate, together with its plunger 21, against the tension of the spring 22. The detent 48 carries a laterally-extending arm 50, terminating in a downturned finger 51, proportioned to reach over the arm 38 and carrying a cam-face 52, positioned to engage the lug 53, carried upon the said arm 38, and to draw the bar 35 toward the chain and by means of the cam-slots 36 to lower the rod 32 and its associated latch 31. Upon the frame in any approved manner is rotatably mounted a shaft 54, carrying a sprocket 55, in engagement with the chain 39, and a friction-disk 56, rigidly secured thereto. Upon the cam-plate 20 is erected an upright 57, to which is journaled a gear-wheel 58, engaging a similar gear-wheel 59, also journaled upon the plate 20 and positioned to frictionally engage the disk 56 when the plate and its associated parts are at their lowest position. Upon the upper end of the upright 57 is pivoted a curved lever 60, provided with a nose 61, proportioned and positioned to engage the notches formed in the cam 62, rigidly carried by and rotating with the wheel 58. The lever 60 carries at one end, rigidly secured thereto, a curved arm 63, arranged to engage the outer movable leaf of the bellows 64, which by means of the tube 65 communicates with any approved device for producing sound, and in the device as represented preferably terminating adjacent the representation of the chicken's mouth.

The device is set for operation by engaging the yoke 23 upon the upturned end of the trigger 25, as shown in Fig. 7, in which position the target-plate 28 is extended adjacent to and to conform with the general contour of the main target. With the yoke 23, plunger 21, and cam-plate 20 raised the detents 42 and 48, carried by the chain 39, pass beneath the said cam-plate and produce no effect thereon except the longitudinal movement of the bar 35, as will be hereinafter explained. When by the impact of any object the trigger 25 is moved longitudinally against the tension of the spring 27 to the position shown in Fig. 2, the yoke 23, under the tension of the spring 22, drops from the end 26 of the said trigger to the position shown in Figs. 2 and 3. When the detent 42 passes beneath the plate 20, the head 46 engages the said plate and forces the plunger 45 downward through the chain 39 and slot 41 and to engage one of the radially-extending lugs 18 of the carrier 13 to move the said carrier angularly upon its journal and to bring one of the apertures 15 to register with the opening 16 in the upper end of the chute 17, so that an egg or other article embraced by the said apertures is permitted to fall through the said apertures to the opening 16 and to be discharged through the chute



17 to any approved and convenient position. When the detent 42 and its associated parts pass the cam-plate 20, it is followed by the detent 48, the cam-face 49 of which engages the curved portion of the plate 20 and raises the said plate, together with its plunger 21 and yoke 23, so that the said yoke is raised above the upper extremity of the curved end 26 of the trigger. Before passing from beneath the plate 20 the finger 51, carried by the detent 48, engages the lug 53 to draw the rod 35 toward the chain, and by reason of moving the bar 32 downward the latch 31 is disengaged from the notch 30 and the trigger 25 permitted to be operated by its spring to draw the end 26 near the aperture 24 and to retain the plunger 21 and plate 20 at its elevated position, as shown in dotted lines in Fig. 3.

In case the disk 28 is struck by a missile after the detent 42 has passed through the machine and before the detent 48 has so passed through, the plate 20 is dropped, as above described, and the trigger 25 retained at its inward position by the latch 31 engaging the notch 30. When the detent 48 engages the plate 20, the said plate and its associated parts are raised by the said detent; but owing to the fact that the trigger 25 is engaged and held by the latch 31 the said trigger does not engage the yoke 23. The said plate 20 drops beyond the detent 48 to position to operate the plunger 45 when it shall rise in operative position. After the detent 48 has passed under the plate 20 the cam-surface 52 engages the lug 58 and draws the bar 35 toward the chain, thereby drawing down the rod 32 and latch 31 to disengage the said latch from the notch 30, the said parts being then in position to operate the plunger 45, as above described. When the latch 31 has been by the bar 35 drawn downward to disengage the said latch from the notch 30, the spring 34 moves the latch 31 laterally a very short distance, so that when the rod 32 is again raised the said latch 31 does not engage the notch 30 and whereby when the plunger 21 is again raised by the detent 48 it is engaged and retained in elevated position by the upturned end 26 of the trigger.

When the plate 20 drops by reason of the plate 28 being struck by a missile, the gear-wheel 59 engages the positively-operated friction-disk 56, which in turn operates the gear 58 and cam 62, and through the medium of the lever 60 and arm 63 the bellows 64 are operated to produce a sound which may represent the cackling of a hen.

It will thus be seen that when through good marksmanship the plate 28 has been struck by a missile the gears 58 and 59 are rotated and the hen at once begins to cackle.

When the detent 42 arrives in position to operate the article-carrier 13, one of the eggs

carried by the said carrier is discharged through the chute 17 and delivered to the successful marksman.

What I claim is—

1. In a device of the class described, a frame, a rotatable article-carrier mounted upon the frame, a positively-driven member, a target, and means whereby the striking of the target causes the moving member to connect with and to operate the article-carrier.

2. In a device of the class described, a frame, an article-carrier mounted to rotate upon the said frame, and provided with a plurality of engaging lugs, a positively-driven member provided with means for engaging the lugs, a target, and means whereby striking the target operates the means for engaging the lug.

3. In a device of the class described, a frame, an article-carrier mounted to rotate upon the frame, and provided with a plurality of article-receiving apertures, a chute provided with an opening positioned to register with the apertures of the article-carrier, a positively-driven member, a target, and means whereby striking the target connects the driven member with and to rotate the article-carrier.

4. In a device of the class described, a frame, a disk mounted to rotate upon the said frame and provided with a plurality of article-receiving apertures, a positively-driven member, a target, and means whereby striking the target connects the target member with and to rotate the disk.

5. In a device of the class described, a movable article-carrier, a positively-driven member adjacent the article-carrier, detents carried by the driven member, a cam arranged to engage the detents, and to throw the said detents into engagement with the article-carrier, a plunger carrying the said cam, a trigger arranged to engage the plunger to hold the cam normally inoperative, and means to release the trigger.

6. In a device of the class described, a frame, an article-carrier mounted to rotate upon the said frame, and provided with a plurality of article-receiving apertures, a chute carried by the said frame and positioned to register with the apertures, a positively-driven member adjacent the article-carrier, means carried by the driven member to engage and rotate the article-carrier, and means to operate the engaging means.

7. In a device of the class described, a frame, a disk mounted to rotate upon the frame and provided with a plurality of article-receiving apertures, and a similar number of engaging lugs, a positively-driven member adjacent the disk, detents carried by the driven member and positioned to engage the lugs, a target, and means whereby the striking of a target operates the detents to engage the lugs.



8. In a device of the class described, a frame, an article-carrier mounted upon the frame, a positively-driven member adjacent to and arranged to operate the article-carrier, a plunger mounted upon the frame and arranged for longitudinal reciprocation, a cam carried by the plunger and arranged to throw the driven member into operative contact with the article-carrier, a trigger arranged to engage the plunger and to hold the cam in normally inoperative position, a target carried by the trigger, and means carried by the driven member to rotate the device.

9. In a device of the class described, an article-carrier, a positively-driven member disposed adjacent the article-carrier, detents carried by the driven member and positioned to engage and operate the article-carrier, a plunger mounted upon the frame, a cam carried by the plunger and positioned to engage and operate the detent, a trigger arranged to engage the plunger and retain the cam in inoperative position, a latch arranged to engage the trigger, and hold the same in inoperative position, a cam arranged to operate the latch, and a detent carried by the driven member to operate the cam, and to reset the parts.

10. In a device of the class described, a positively-driven member, an air-compressor, a plunger, means carried by the plunger to engage the driven member and to operate the compressor, a trigger arranged to hold

the plunger in a normally inoperative position, and a target connected with the trigger. 35

11. In a device of the class described, a frame, an air-compressor mounted upon the frame, a positively-driven member mounted adjacent the air-compressor, a plunger mounted for movement adjacent the driven member, means carried by the plunger to engage the driven member, and to operate the air-compressor, a trigger carried by the frame arranged to engage and hold the plunger normally in inoperative position, and a target connected with the trigger. 45

12. In a device of the class described, a frame, an article-carrier mounted to rotate upon the frame, a positively-driven member adjacent the article-carrier, an air-compressor mounted upon the frame in juxtaposition to the driven member, a plunger mounted upon the frame, means carried by the plunger for engaging the driven member and operating the air-compressor, a cam carried by the plunger, means carried by the driven member for engaging the cam and operating the article-carrier, a trigger arranged to hold the plunger in a normally inoperative position, and a target carried by the trigger. 50 55 60

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

HARRY F. CRICKLER.

Witnesses:

FRANK B. BROWN,  
FREDERICK HILLMAN.