

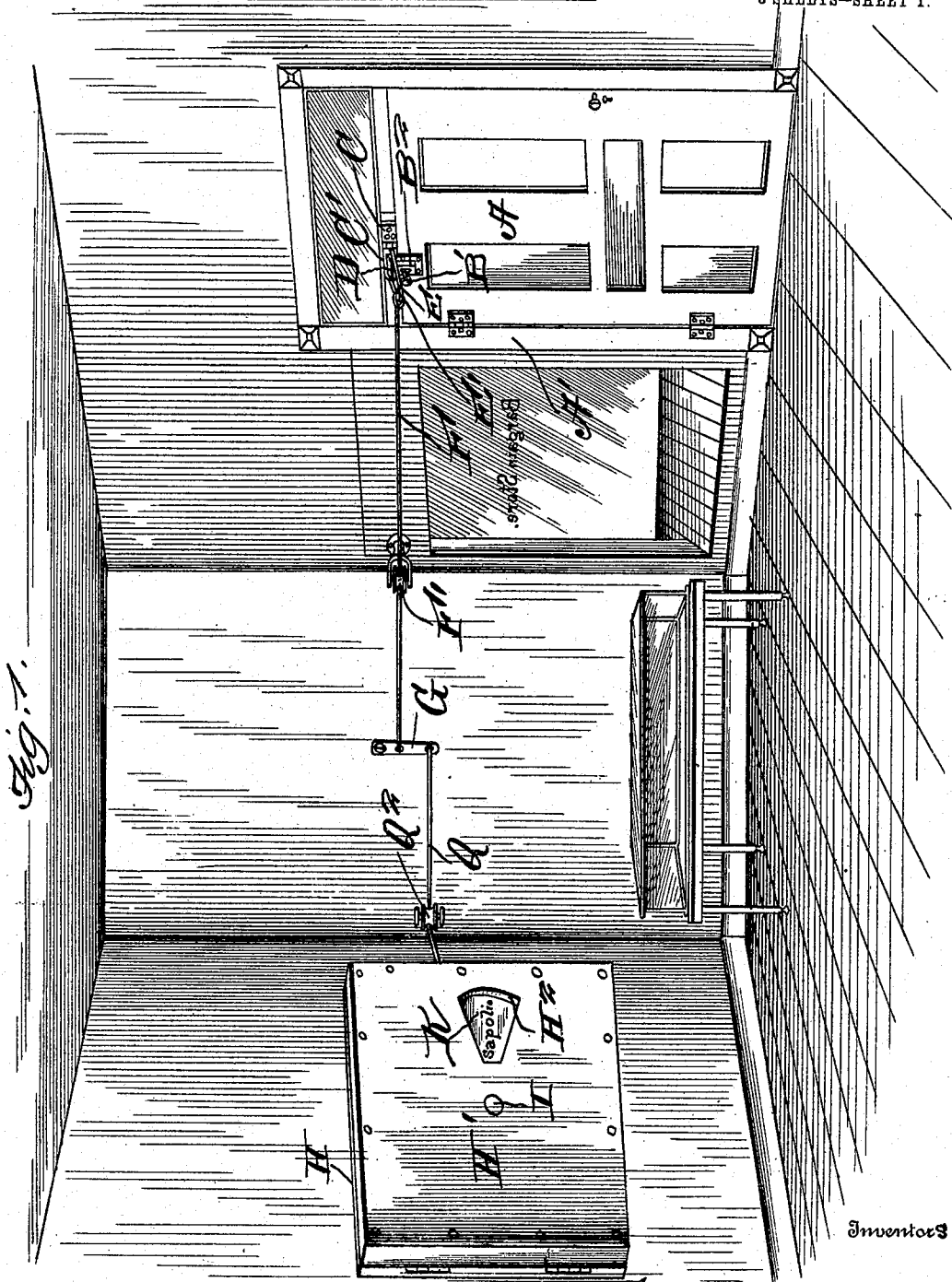
C. D. CHADBOURNE & W. R. SIMPSON.
CHANGEABLE SIGN FOR ADVERTISING PURPOSES, &c.

APPLICATION FILED JUNE 10, 1909.

941,695.

Patented Nov. 30, 1909.

3 SHEETS—SHEET 1.



Witnesses

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3 SHEETS—SHEET 2.

Fig. 2.

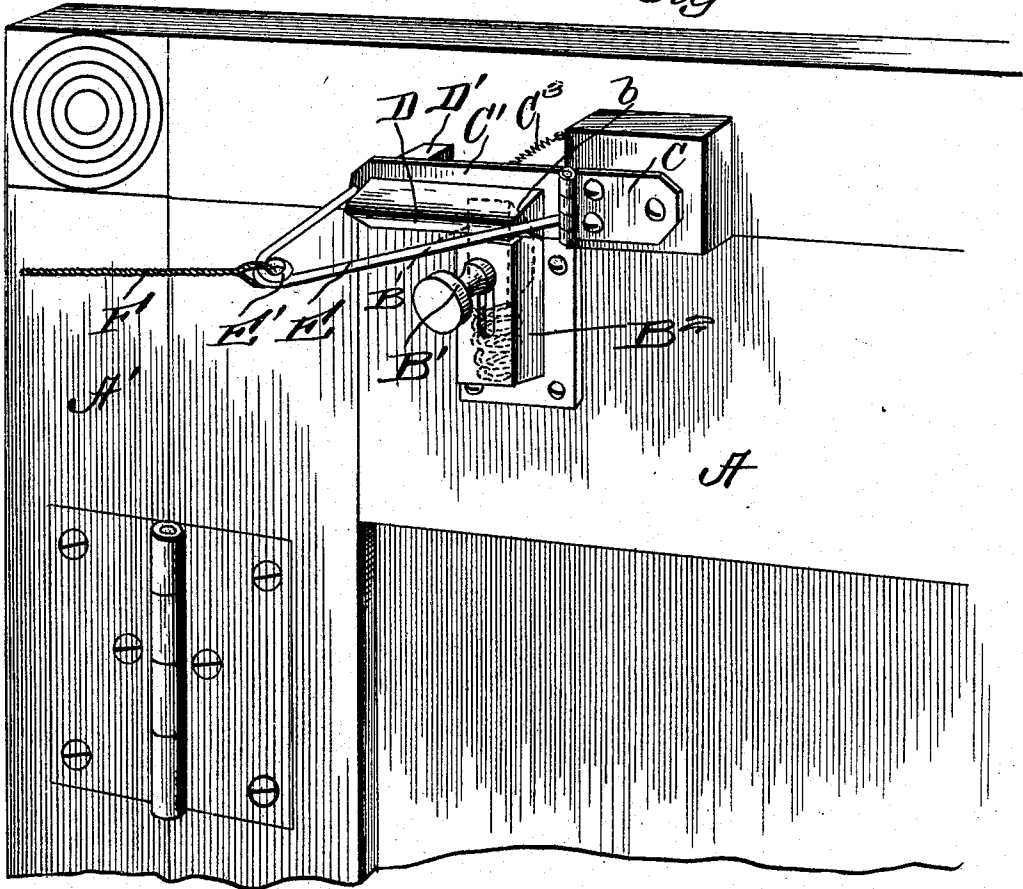
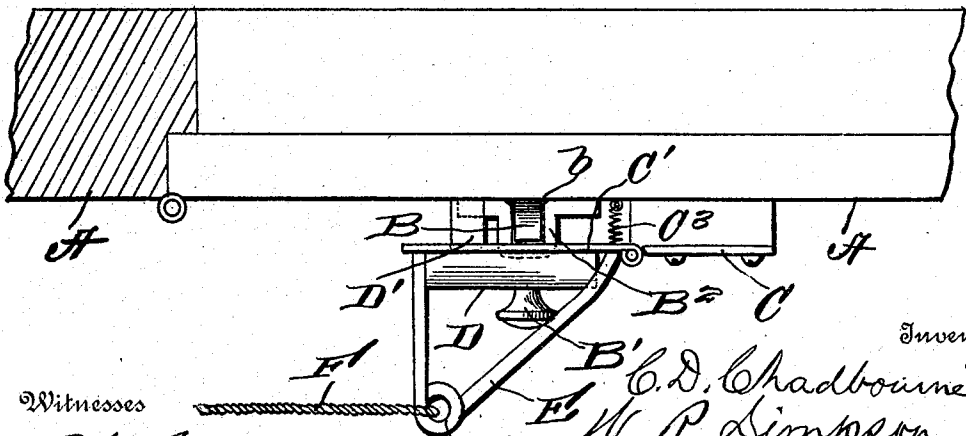


Fig. 3.



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3 SHEETS—SHEET 3

Fig. 4.

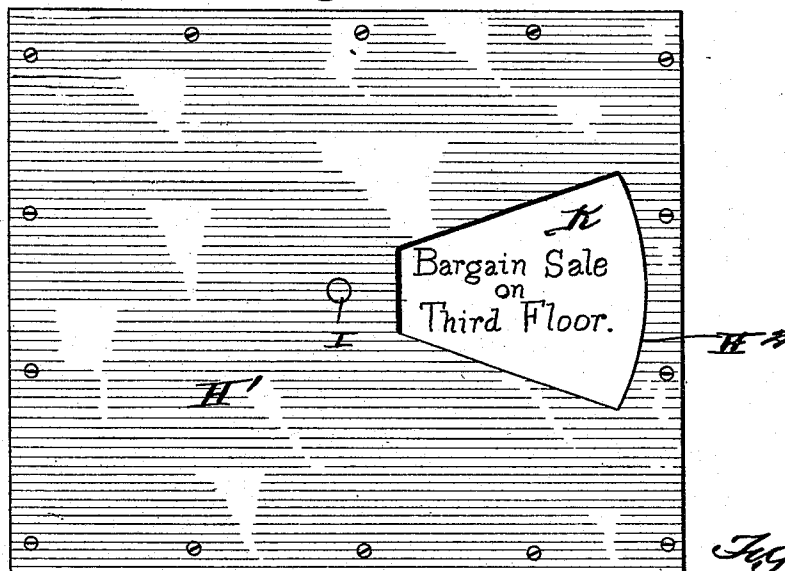
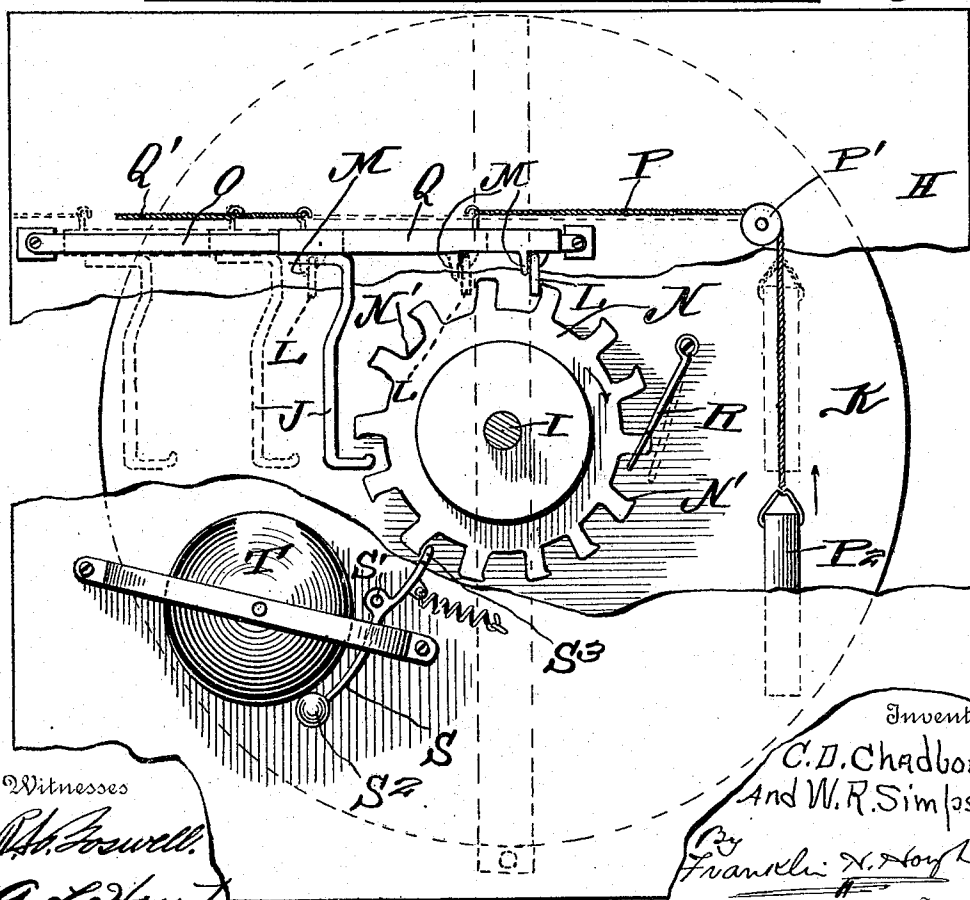


Fig. 5.



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UNITED STATES PATENT OFFICE.

CLINTON DELMONT CHADBOURNE AND WILBUR ROBERT SIMPSON, OF WYOMING,
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CHANGEABLE SIGN FOR ADVERTISING PURPOSES, &c.

941,695.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, CLINTON D. CHADBOURNE and WILBUR ROBERT SIMPSON, citizens of the United States, residing at Wyoming, in the county of Stark and State of Illinois, have invented certain new and useful Improvements in Changeable Signs for Advertising Purposes, &c.; and we 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in changeable advertising means and consists essentially in the provision of a rotary disk upon which appear various advertisements and means being provided whereby, as a door is opened, a partial rotary movement may be imparted to the disk to disclose one or another of a series of advertisements appearing on the disk and through a sight aperture.

Our invention comprises various other details of construction, combinations and arrangements of parts which will be hereinafter fully described and then specifically defined in the appended claims.

We illustrate our invention in the accompanying drawings, in which:—

Figure 1 is a perspective view of a door and means carried thereby adapted to contact with and actuate a mechanism for rotating a disk. Fig. 2 is a perspective view of the door attachment and the hinged member actuated thereby. Fig. 3 is a top plan view showing the pivotal means actuated by the door carrying member. Fig. 4 is an elevation showing a casing with a sight aperture through which may be seen a section of the rotary card adapted to contain advertising matter, and Fig. 5 is an elevation from the rear showing the means for giving an intermittent rotary movement to the disk as the door is opened.

Reference now being had to the details of the drawings by letter, A designates a door hinged to a frame A' which has fastened to the inner face thereof adjacent to its upper end a spring-pressed bolt B from which extends a knob B', said bolt being mounted in a suitable casing B². The upper end of said

bolt is beveled, as at b. Fastened above the door and adjacent thereto is a plate C which has a tongue C' hinged thereto, the outer face of said tongue having a beveled projection D behind which said bolt is adapted to be normally positioned when the door is closed. It will be noted that said tongue is positioned a slight distance, preferably of the width of the bolt, from the face of the door, and D' is a stop adapted to limit the throw of said tongue in one direction. Secured to said tongue is a wire E which is turned to form an eye E' and to which a cord F is fastened which passes over a pulley F' and its other end is fastened to a pivotal bar G. A spring C³ is adapted to return the pivotal tongue C' to its normal position, after having been swung outward by the bolt as the door is opened.

Mounted at any suitable location, preferably within the room into which the door A opens, is a casing H having a swinging door H' with a sight aperture H² therein and mounted within said casing is a stub shaft I upon which is loosely journaled a disk K upon which is adapted to appear various advertising cards arranged in any manner and adapted to be displayed in rotation at the sight aperture as an intermittent movement is imparted to the disk. Fixed also to said stub shaft is a wheel N having a series of scallops N' in the circumference thereof and forming means whereby an intermittent movement may be imparted to said wheel and the disk which rotates therewith. Mounted to have a reciprocating movement upon the horizontally disposed bar O fastened to the wall of said casing or behind the disk is a movable shell Q to one end of which is fastened a cord Q' which passes over a pulley Q² and is fastened to the pivotal bar G affording means whereby, as said bar is tilted as the door is opened, a movement will be imparted to said shell by the pulling upon the cord which is fastened to the hinged tongue C'. Projecting from said shell is a fixed arm J which serves as a stop to limit the rotary movement of said wheel by an angled end of said projection coming in contact with the marginal edge of one of the scalloped edges of said wheel. Also pivotally mounted upon said shell is a link L which is adapted, as the shell is moved in one direction, to contact with one of the edges of the scalloped portion of the wheel

to give the same an intermittent rotary movement. A shoulder M projects from said shell and against which said link is adapted to contact to limit its movement in one direction, thus allowing said link to tilt freely as it moves to assume a position shown by dotted lines in Fig. 5 of the drawings and, upon the return movement of the shell to its normal position, said link is prevented from tilting in the opposite direction by the shoulder M against which it contacts, thus causing an intermittent movement to be imparted to the wheel N. Fixed to the wall of the casing in which said disk is mounted is a spring R, one end of which is adapted to contact with the projections intermediate the scallops to arrest the rotary movement of the wheel in one direction, said spring yielding when a rotary movement is imparted to the disk. A bell T is fastened behind said disk and S is a pivotal lever mounted upon a pivot S' and has a hammer S² at one end, while its other end has a widened portion S³ positioned in the path of the marginal edges of the scalloped portion of said wheel and designed to cause the hammer to strike the bell each time an intermittent rotary movement is imparted to the disk. Fastened to one end of said shell is a cord P passing over a suitable pulley P' and having a weight P² fastened to its end, the office of which weight is to return the parts to their normal positions after having been actuated by the opening of the door.

The operation of our invention will be readily understood and is as follows:—When the door is opened, the bolt being positioned behind the pivotal tongue C' will cause the latter to tilt and, through the medium of the ropes as shown and described, the shell will be drawn horizontally upon said bar and the integral projection upon said shell, which normally holds the disk from rotating, will be drawn laterally away from the scalloped wheel and the pivotal link will ride idly over the projection intermediate two of the scallops of the wheel. The forward movement of the shell, which is imparted thereto by pulling upon said ropes, will also cause the weight to be raised and, when the bolt passes by the end of the tongue, said weight will return the parts to their normal positions and, in the opposite movement of the shell, said link coming in contact with one of the marginal edges of the scalloped wheel will cause an intermittent movement to be imparted to the latter and also to the disk which rotates with said scalloped wheel, thus disclosing another part of the disk upon which is adapted to appear various advertising cards at the sight aperture. When the shell carrying said integral projection and the pivotal link return to their normal positions, the angled end of said projection will engage and hold the

scalloped wheel from further rotation until the operation is repeated by opening the door the next time. As the scalloped wheel is given an intermittent movement, the spring upon the rear face of the casing will contact with the edge of the scalloped wheel and serve to hold the same from rotation when the shell is being drawn forward as the door is opened. When the weight falls, said spring will be pushed back by the scalloped wheel, allowing the latter to move freely. As the door is closed, the beveled end of the bolt coming against the lower beveled edge of said tongue C' will be thrown back into its casing and allow the door to close, after which the spring acting against said bolt will throw the latter behind the tongue and in readiness for the next operation as the door is again opened.

What we claim to be new is:—

1. A changeable advertising apparatus, comprising a rotary disk adapted to contain various advertising cards to be disclosed at a sight aperture, a door, a pivotal tongue, means carried by the door and adapted to tilt said tongue as the door is opened, and means actuated by said tongue for giving an intermittent movement to said disk.

2. A changeable advertising apparatus, comprising a rotary disk adapted to contain various advertising cards to be disclosed at a sight aperture, a door, a spring-pressed bolt mounted upon said door, a pivotal tongue adapted to be actuated by said bolt as the door is opened, and means actuated by said tongue and adapted to impart an intermittent movement to said disk.

3. A changeable advertising apparatus, comprising a rotary disk adapted to contain various advertising cards to be disclosed at a sight aperture, a door, a spring-pressed bolt mounted upon said door, a hinged tongue mounted adjacent to the door and behind which said bolt normally rests, a projection upon said tongue, and means connected thereto for actuating and imparting an intermittent movement to said disk.

4. A changeable advertising apparatus, comprising a rotary disk adapted to contain various advertising cards to be disclosed at a sight aperture, a door, a spring-pressed beveled ended bolt mounted upon said door, a hinged tongue mounted adjacent to the door and behind which said bolt normally rests, said tongue having a beveled projection thereon designed to retract the bolt as the latter passes by said projection, and means connected to said tongue for imparting an intermittent movement to the disk as the door is opened.

5. A changeable advertising device, comprising a rotary disk adapted to contain advertising cards to be displayed through a sight aperture, a wheel having a series of scallops in the circumference thereof and

adapted to rotate with said disk, a movable shell and guide therefor, a pivotal finger upon said shell adapted to contact with said scalloped wheel to impart an intermittent rotary movement thereto, means carried by the shell for limiting the rotary movement of the wheel, and means actuated by a door for moving said shell in one direction.

6. A changeable advertising device, comprising a rotary disk adapted to contain advertising cards to be displayed through a sight aperture, a wheel having a series of scallops in the circumference thereof and adapted to rotate with said disk, a movable shell and guide therefor, a pivotal finger upon said shell adapted to contact with said scalloped wheel to impart an intermittent rotary movement thereto, means carried by the shell for limiting the rotary movement of the wheel, means actuated by a door for moving said shell in one direction, and a weight for returning said shell to its normal position.

7. A changeable advertising device, comprising a rotary disk adapted to contain advertising cards to be displayed through a sight aperture, a wheel having a series of scallops in the circumference thereof and adapted to rotate with said disk, a movable shell and guide therefor, a pivotal finger upon said shell adapted to contact with said scalloped wheel to impart an intermittent rotary movement thereto, a projection upon said shell having an angled end adapted to contact with said scalloped wheel to limit its intermittent movement, means actuated by a door for moving said shell in one direction, and a weight fixed to the shell adapted to return the same to its normal position.

8. A changeable advertising device, comprising a rotary disk adapted to contain advertising cards to be displayed through a sight aperture, a wheel having a series of scallops in the circumference thereof and adapted to rotate with said disk, a movable shell and guide therefor, a pivotal finger upon said shell adapted to contact with said scalloped wheel to impart an intermittent rotary movement thereto, a shoulder upon said shell adapted to limit the movement of said finger in one direction, a projection

upon the shell for limiting the movement of the scalloped wheel, means actuated by a door for moving said shell in one direction, and a weight for returning the shell to its normal position.

9. A changeable advertising device, comprising a rotary disk adapted to contain advertising cards to be displayed through a sight aperture, a wheel having a series of scallops in the circumference thereof and adapted to rotate with said disk, a movable shell and guide therefor, a pivotal finger upon said shell adapted to contact with said scalloped wheel to impart an intermittent rotary movement thereto, a shoulder upon said shell adapted to limit the movement of said finger in one direction, a projection upon the shell for limiting the movement of the scalloped wheel, means actuated by a door for moving said shell in one direction, a weight for returning the shell to its normal position, means for holding the disk from rotation when the shell is being moved in one direction, a bell, and a pivotal hammer therefor, adapted to be tilted by said scalloped wheel.

10. A changeable advertising device, comprising a rotary disk adapted to contain advertising cards to be displayed through a sight aperture, a wheel having a series of scallops in the circumference thereof and adapted to rotate with said disk, a movable shell, a horizontally disposed bar upon which said shell is mounted and adapted to have a sliding movement, a pivotal finger mounted upon said shell and adapted to contact with and impart an intermittent movement to the scalloped wheel, means upon said shell for limiting the intermittent rotary movement of the wheel, means actuated by the opening of the door for moving the shell in one direction, and a weight for returning the parts to their normal positions.

In testimony whereof we hereunto affix our signatures in the presence of two witnesses.

CLINTON DELMONT CHADBOURNE.

WILBUR ROBERT SIMPSON.

Witnesses:

W. H. WRIGLEY,

G. F. GARELEN.