No. 880,598. PATENTED MAR. 3, 1908.

H. G. TAYLOR.

CARD EXHIBITING MACHINE.

APPLICATION FILED FEB. 4, 1905.

2 SHEETS—SHEET 1.

Fig. 1.

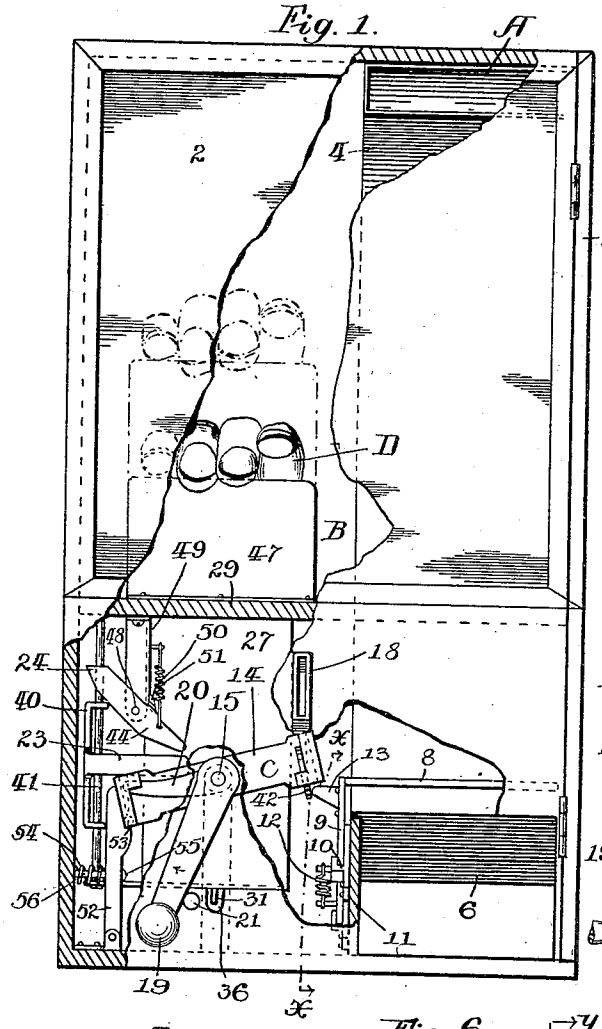


Fig. 2.

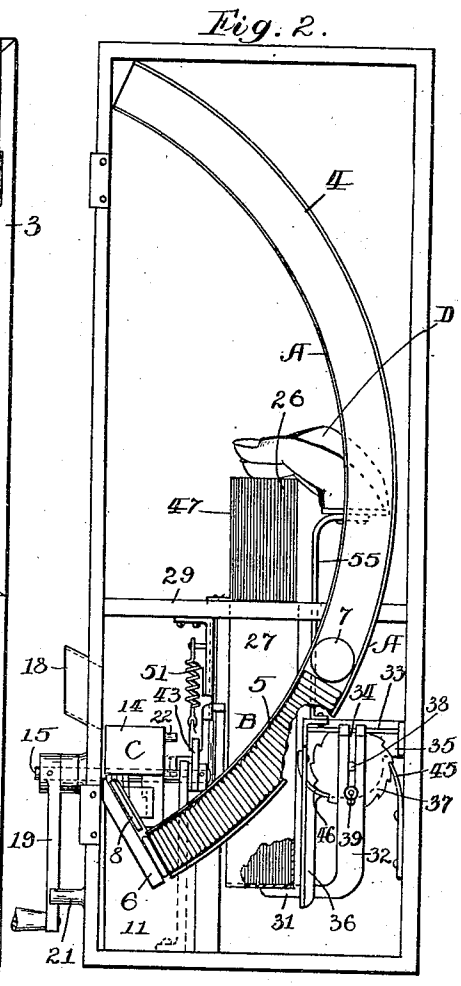


Fig. 6.

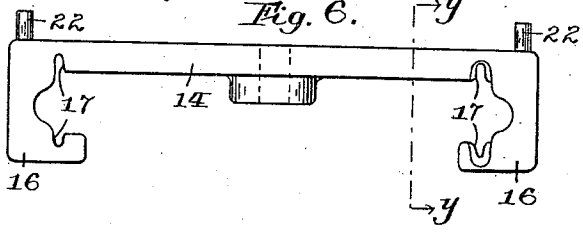
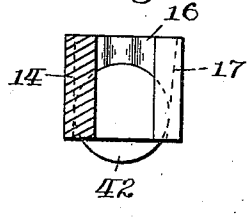


Fig. 7.



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2 SHEETS—SHEET 2.

Fig. 3.

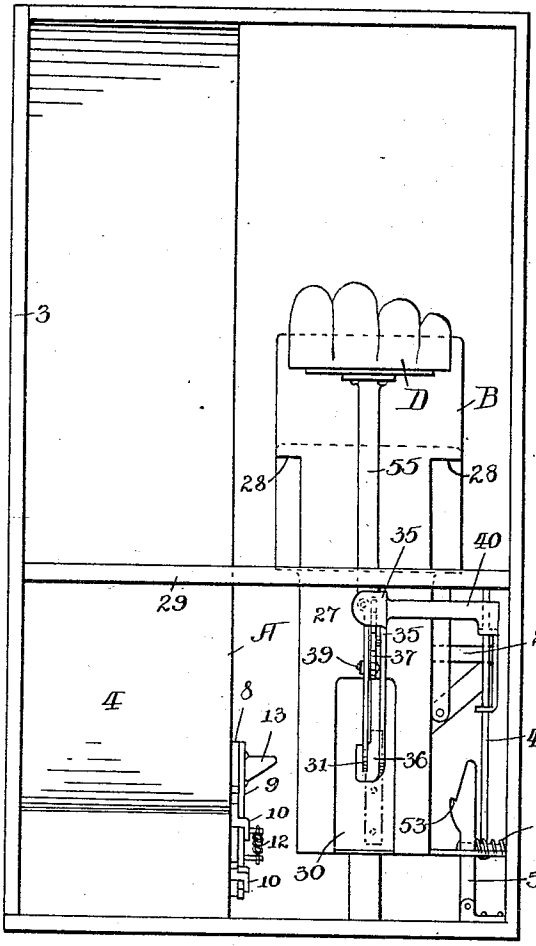


Fig. 4.

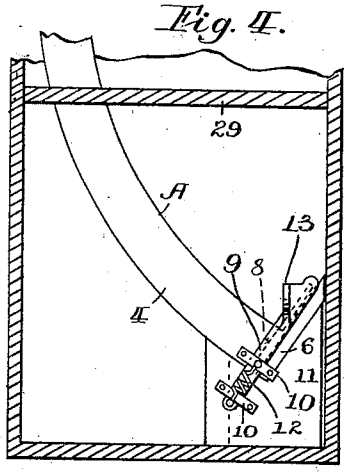


Fig. 5.

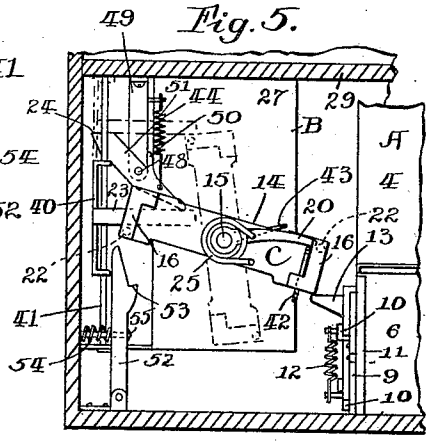
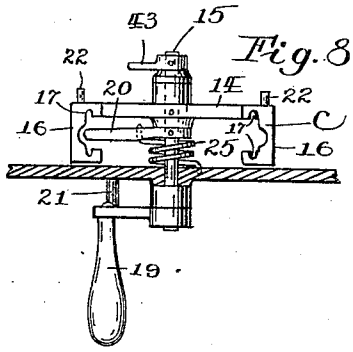


Fig. 8.



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UNITED STATES PATENT OFFICE.

HUGH G. TAYLOR, OF ST. PAUL, MINNESOTA.

CARD-EXHIBITING MACHINE.

No. 880,598. Specification of Letters Patent. Patented March 3, 1908.

Application filed February 4, 1905. Serial No. 244,087.

To all whom it may concern:

Be it known that I, HUGH G. TAYLOR, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented a new and useful Card-Exhibiting Machine, of which the following is a specification.

My invention relates to improvements in a card-exhibiting machine and has for its object a simple and inexpensive machine that vends gum or other commodities and at each operation selects and displays a card or other similar device bearing an inscription upon its face such as the fortune of the operator.

In the accompanying drawings forming part of this specification, Figure 1 is a front view of my invention, showing part of the cabinet broken away to expose the interior mechanism to view; Fig. 2 is a side view with the door removed; Fig. 3 is a rear view with the back removed; Fig. 4 is a detail sectional view, taken on the line *x*—*x* of Fig. 1; Fig. 5 is another detail sectional view, showing the coin holder after it has made part of a stroke; Fig. 6 is a plan view of the coin holder; Fig. 7 is a sectional view of Fig. 6, taken on the line *y*—*y*, and Fig. 8 is a detail sectional view of the machine, looking down upon the coin holder.

In the drawings is shown a suitable cabinet having the upper portion 2 of its front made of glass and its side provided with a door 3. In said cabinet are the gum-vending mechanism A, card-exhibiting mechanism B and coin-operated mechanism C. Adjoining said door in said cabinet is a magazine 4, in the form of a segment, the end of which is oblong and its side open, for the purpose of inserting tablets of gum 5 or articles to be vended when the door is open. Near the lower end of the magazine is a stop 6, and resting loosely upon said tablets is a weight 7, which presses them against said stop as they are delivered. A cut-out 8 is adapted to slide between the lower end of the magazine and the stop to eject a tablet at a time from the magazine each time the machine is operated. The cut-out is carried by a shaft 9 sliding in the clips 10 on the wall 11. Normally the cut-out is raised, as shown in Fig. 2, by means of the spring 12, which is connected to one of the clips and said shaft. The shaft carries a flange 13 near its upper end, which coöperates with the coin-operated mechanism. The coin-operated mechanism has a coin holder 14 formed by an arm journaled upon the shaft 15 and having shoulders 16 on its ends, which are notched at 17 to receive the coin in one end of said arm when it is dropped through the receiving slot 18. The walls of the notches 17 converge in the shoulders 16, as shown, and are of suitable dimensions to receive and engage a coin of proper size. The outer end of the shaft 15 carries the operating handle 19. When this handle is turned in the direction of the arrows, the arm 20, which is fastened upon the shaft 15, is swung and caused to engage the coin received in the holder and turn the holder until the handle 19 impinges against the stop 21 on the face of the cabinet. A lug 22 is carried on each end of the coin holder. As said holder is turned, one of said lugs impinges against the lifting arm 23 of the card-exhibiting mechanism B and lifts said arm upon the trip shoulder 24. The lifting arm remains on said shoulder until the handle 19 is released. The shaft 15 and arm 20 are then returned to normal position, as shown in Fig. 1, by means of the spring 25. One end of said spring is fastened to the cabinet and the other end to the arm 20.

The card-exhibiting mechanism consists of a plurality of loose cards 26, which are free to slide vertically in the pocket 27 and are provided with shoulders 28, which rest on the shelf 29 of the cabinet when the cards are in normal position, as shown by the full lines in Figs. 1 and 2. The back and lower end of the pocket has an opening 30, through which the card selector 31 passes to raise part or all of the cards and expose the face of one to view, as shown by the broken lines in Fig. 1 and the full lines in Fig. 3. The selector is a horizontal arm having a vertical support 32, which slides at its upper end on the horizontal shaft 33 and has a vertical slot 34. The shaft 33 is fastened by its ends to a carriage 35. This carriage has a guide 36, through which the horizontal selector 31 slides and carries a toothed wheel 37. The wheel is journaled at 38 on said carriage and carries a pivot 39 working through the slot 34 of the selector to cause said selector to slide horizontally. The carriage carries a bracket 40, which slides vertically on a guide rod 41 and has the lifting arm 23 formed thereon. After a coin 42 has been dropped through the slot 18 and into the holder and the operating handle turned, one of the lugs 22 on the holder engages the lifting arm and raises the card selector and displayer. During this operation

the spring dog 43 sweeps over the catch 44. When the operating handle is released the spring dog 43 trips the lower end of the catch 44 and releases the shoulder 24 from the lifting arm 23 and permits the selecting and displaying mechanism to drop by gravity into normal position, as shown in Fig. 2. During this return movement the teeth of the wheel 37 are engaged by the pawl 45 and the wheel turned a step, causing the selector 31 to move forward or backward the distance of one of the cards 26 and exhibit a different card each time the machine is operated. A spring dog 46 on the carriage prevents the back lash of the toothed wheel 37.

A face plate 47 is fastened on the shelf 29 in front of the stack of cards to cover the same. The catch 44, having the shoulder 24 upon its upper end, is pivoted at 48 between its ends upon the depending arm 49, which is hung from the shelf. This catch has a stop 50, which impinges against the edge of the arm 49. A spring 51 is fastened to the catch and arm 49 and tends to hold the catch in readiness to receive and engage the arm 23 of the carriage 35. The coin holder is journaled freely on the shaft 15, and when in normal position is adapted to receive a coin between the notches 17 when droped through the receiving slot 18. The holder is retained in normal position by means of the dog 52, having a shoulder 53 and provided with an expansion spring 54 pressing the dog against the head 55 on the stop 56. The stop 56 passes freely through the dog 52 and has a head which limits the movement of the dog when the coin holder is turned. Said coin holder trips the dog 52 when it is revolved. The coin-engaging arm 20 ejects the coin from the holder when the handle is returned to normal position, the coin falling on the floor of the cabinet, from where it can be removed when desired by opening the door 3.

A model of part of a hand D is carried by a vertical arm 55 on the carriage 35 and slides up and down, thus appearing as though holding and manipulating a pack of cards by which a fortune is told, when the machine is operated.

Having described my invention, what I claim as new and desire to protect by Letters Patent, is:—

1. A machine of the class set forth, comprising, in combination, a suitable cabinet, a pack of cards arranged vertically therein, a selector, and means provided with an operating handle adapted to move said selector to exhibit one of said cards by lifting a plurality of said cards belonging to said pack.

2. A machine of the class set forth, comprising, in combination, a suitable cabinet, a pack of cards therein, a selector adapted to raise a plurality of cards belonging to said pack to exhibit one of said cards, a drive shaft for raising said selector, an operating handle attached to said shaft to turn it, and means for returning said handle to normal position after said selector has been raised.

3. A device of the class set forth, comprising, in combination, a suitable cabinet, a pack of cards arranged vertically therein, a selector for raising a plurality of cards belonging to said pack to exhibit one of said cards, a shaft journaled in said cabinet, an arm carried by said shaft to operate said selector, and spring actuated means for returning said arm to normal position.

4. A machine of the class set forth, comprising, in combination, a suitable cabinet, a pack of cards arranged vertically therein, means for selecting and sliding said cards vertically to exhibit one of them, means for holding said selecting and sliding means in superior position, a shaft journaled in said cabinet, means for engaging said selecting and sliding means as said shaft is revolved, a spring for reversing said shaft, means for releasing said selecting and sliding means to cause it to return to normal position, and an operating handle attached to said shaft.

5. A machine of the class set forth, comprising, in combination, a suitable cabinet, a shaft therein, a holder for a pack of cards arranged vertically in said cabinet, an operating handle attached to said shaft, means for selecting and exhibiting one of said cards by raising a number of cards belonging to said pack in superior position, and means for returning said selecting and exhibiting means to normal position.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HUGH G. TAYLOR.

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