No. 641,971. Patented Jan. 23, 1900.

G. I. KELSEY.

VENDING MACHINE.

(Application filed June 3, 1899.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

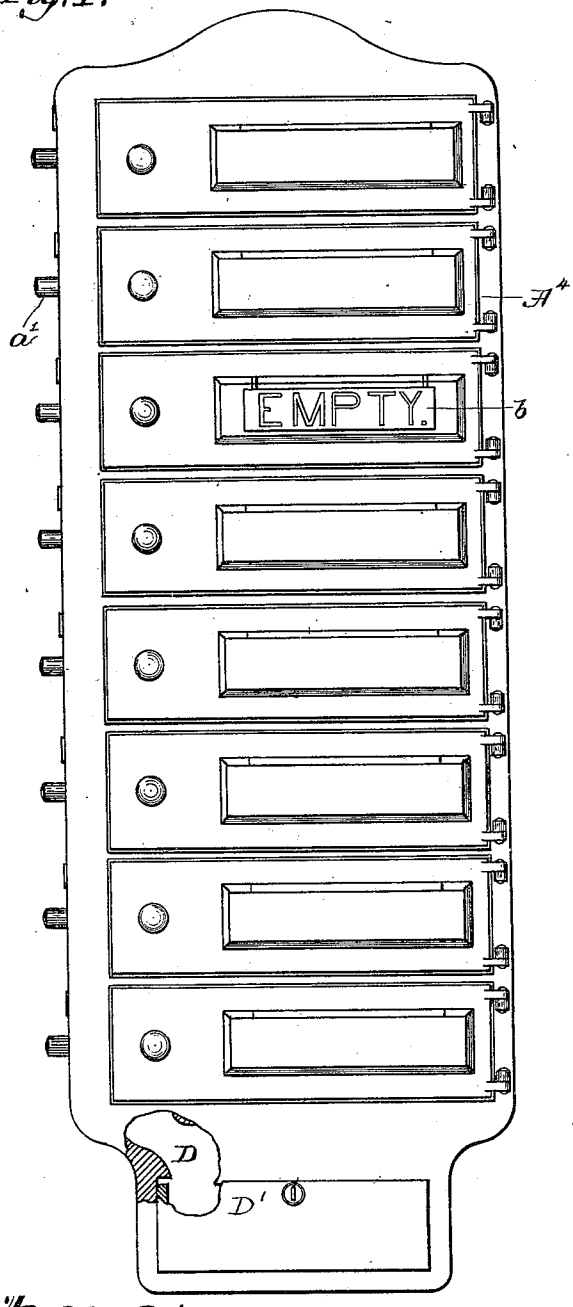
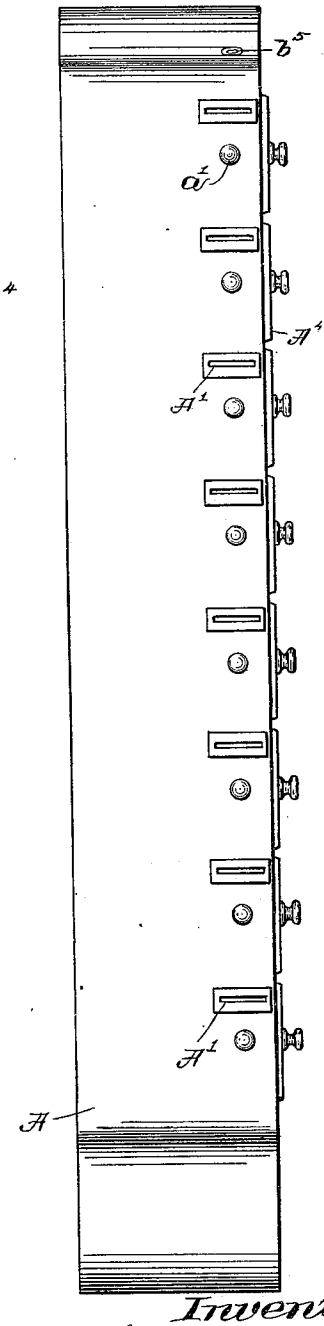


Fig. 2.



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Fig. 3.

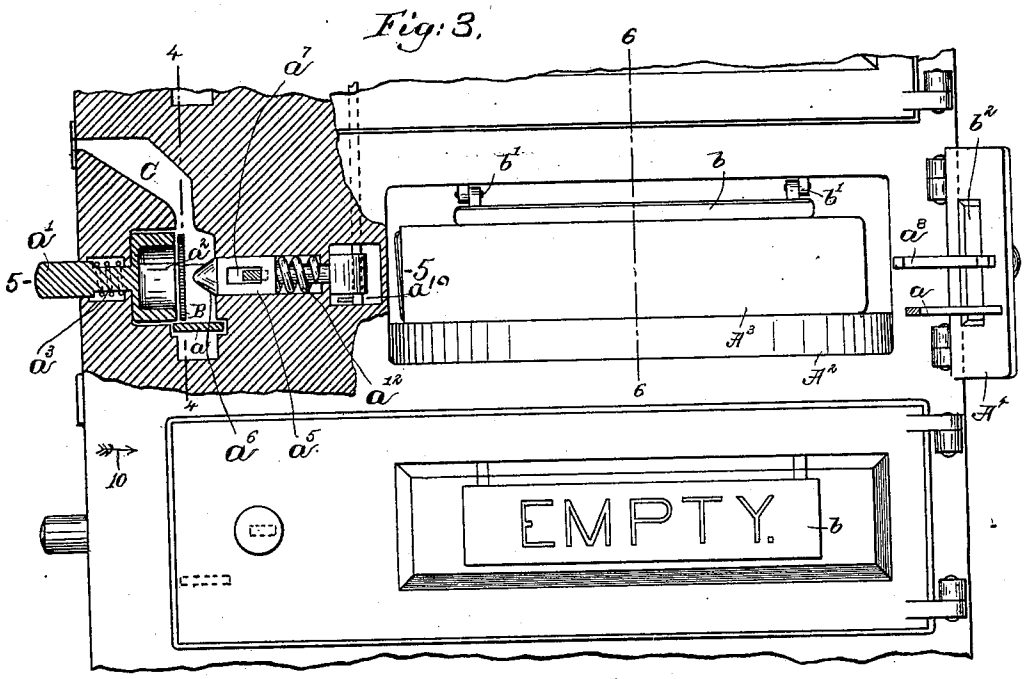


Fig. 7.

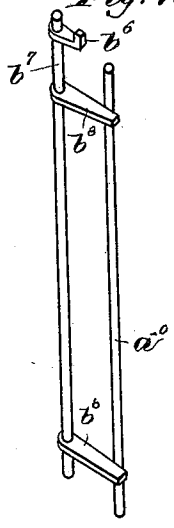


Fig. 4.

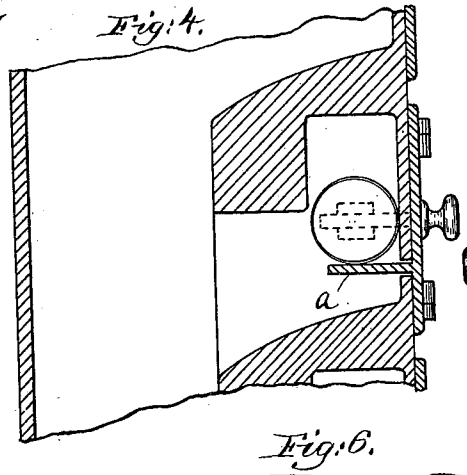


Fig. 5.

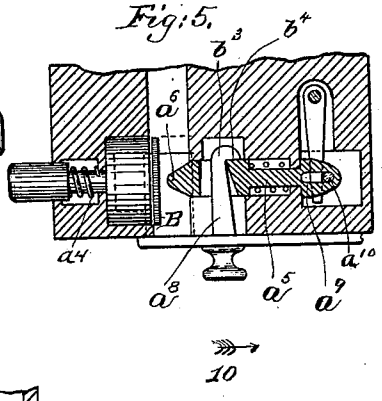
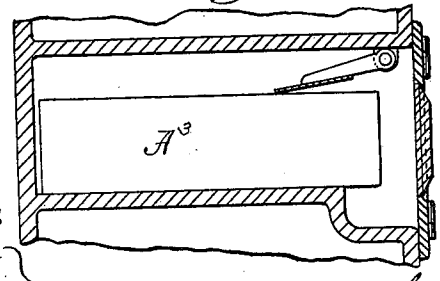


Fig. 6.



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UNITED STATES PATENT OFFICE.

GRACE I. KELSEY, OF BEACH BLUFF, MASSACHUSETTS.

VENDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 641,971, dated January 23, 1900.

Application filed June 3, 1899. Serial No. 719,215. (No model.)

To all whom it may concern:

Be it known that I, GRACE I. KELSEY, a citizen of the United States, residing at Beach Bluff, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Vending-Machines, of which the following is a specification.

My invention relates to an improvement in a vending-machine in which a package is so placed that upon the inserting of a coin of the required denomination the package can be withdrawn from the case or receptacle.

The construction and arrangement of parts will be more particularly pointed out in the accompanying drawings and specification, like letters representing like parts throughout the drawings.

Figure 1 is a front elevation of the vending-machine. Fig. 2 is a side view looking to the right, as in Fig. 1. Fig. 3 is an enlarged front view of two of the sections, the upper part being broken away to show the internal mechanism. Fig. 4 is a section on line 4 4 as shown in Fig. 3 and looking to the right. Fig. 5 is a section on line 5 5, Fig. 3, and looking downward. Fig. 6 is a section on line 6 6, Fig. 3, and looking to the right. Fig. 7 is a perspective view of the lock-releasing mechanism for all the doors.

The vending-machine is made as a case or frame A, having suitable slots A′ for the insertion of a coin.

In the front of the case A are openings or receptacles A^2 for holding the packages A^3, which are kept from being withdrawn by locked doors A^4.

The insertion of the coin B in the slot A′ will pass downward through the passage C to a position as shown in Fig. 3, the coin resting on the shelf or lug a on the doors A^4.

In line with the coin B, as shown in Fig. 3, is a plunger or thumb-piece a', extending out and through the side of the case A, and at its opposite end is an enlarged hollow end piece a^2 to coöperate with the coin.

Surrounding the shank a^3 is a spring a^4, arranged to keep the plunger a' in an outer position.

In line with the hollow end piece a^2 is a corresponding plunger a^5, pointed, as at a^6, and having a slot a^7, with which a hooked arm a^8 engages for locking the doors A^4, the said arm being secured to and forming part of the said door. At the opposite end of the plunger a^5 is a slotted end a^9, through which the rod a^{10} is loosely carried and is for the purpose of unlocking all the doors at once to gain access to the receptacle A^2.

On the shank of the plunger a^5 is a spring a^{12} for holding the plunger in a fixed position.

In withdrawing the package A^3 an indicator b, pivoted at b', drops, as shown in Fig. 3, and shows a sign that that section is empty. To allow the sign or indicator b to be seen, the door A^4 is provided with a glass opening b^2, as shown in Fig. 3.

By pressing the knob or thumb-piece a' the cup-shaped piece a^2 presses the coin B in contact with the plunger a^5 and by moving in the direction of arrow 10 disengages the hooked end b^3 of the arm a^8 from catch b^4, thus allowing the door A^4 to be opened to gain access to the package A^3. At the same time that the door A^4 is opened the projection or shelf a is withdrawn, thus allowing the coin B to drop downward by passage D and into the locked drawer D′, as shown in Fig. 1.

To unlock all the doors A^4, a key is inserted at b^5, Fig. 2, and in turning strikes the arm b^6, secured on the rod b^7, on which are secured two arms b^8, that strike the rod a^{10}, which passes through all the slots a^9 of the plungers a^5.

The parts are arranged and constructed for the distribution of a pack of playing-cards upon the insertion of a coin of a predetermined denomination; but it is obvious that packages of other material may be placed in the machine and disposed of upon the insertion of a coin equally as well.

I claim—

The combination in a vending-machine of the receptacle-frame with the door having a projecting arm a^8 engaging with a slotted plunger a^5 projecting into a coin-guideway and cooperating with a coin resting on the shelf a and in line with the hollow plunger a' extending through the frame A substantially as set forth.

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Witnesses:
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