

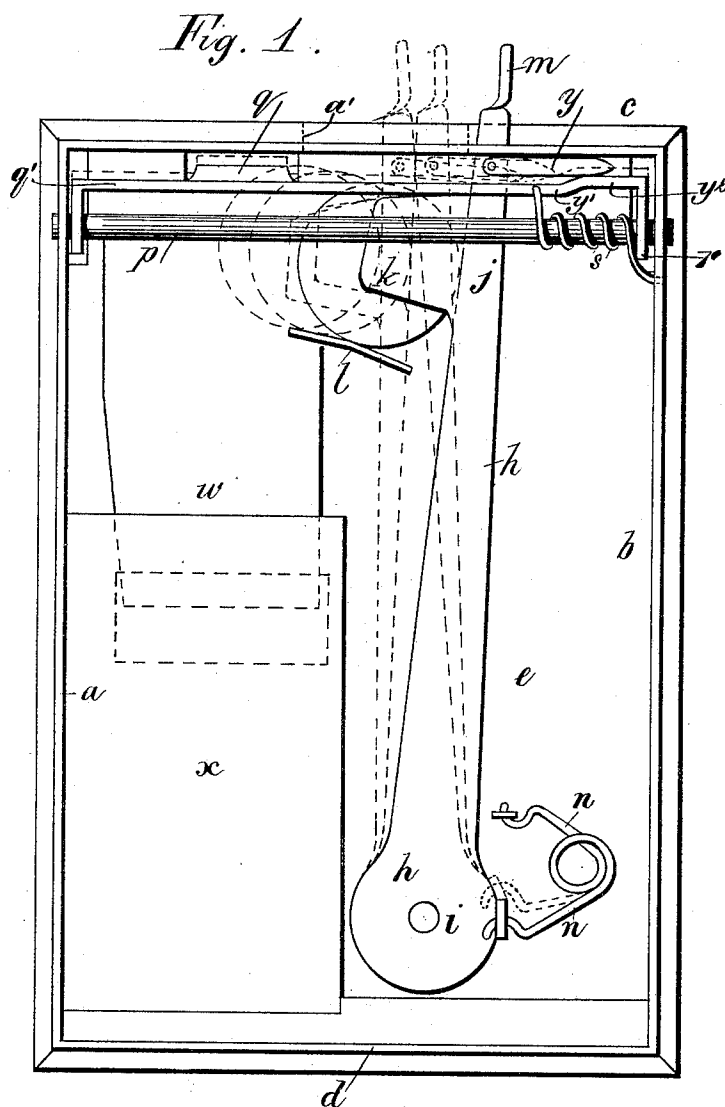
(No Model.)

2 Sheets—Sheet 1.

W. S. SIMPSON.
VENDING APPARATUS.

No. 467,442.

Patented Jan. 19, 1892.



Witnesses:—
J. A. Rutherford, William S. Simpson
Robert Burnett, By James H. Norris,
Attorney.

(No Model.)

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Fig. 2.

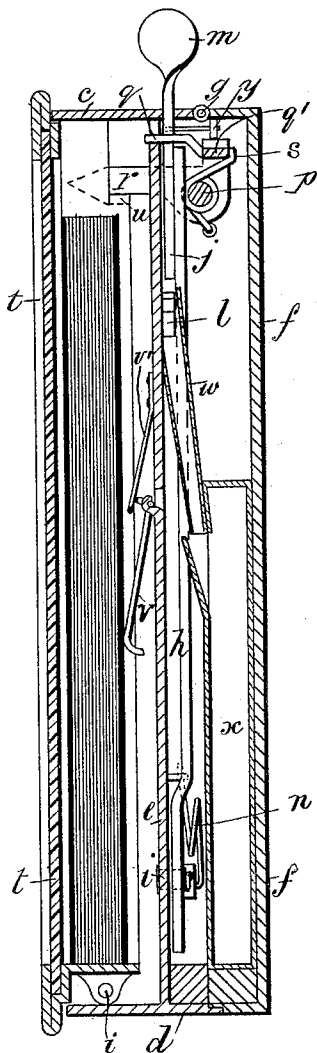
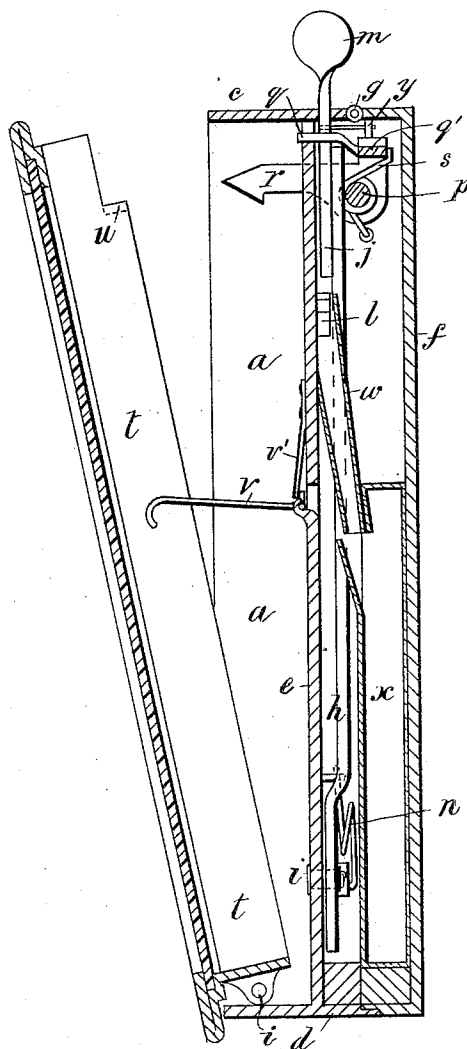


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM SPEIRS SIMPSON, OF LONDON, ENGLAND.

VENDING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 467,442, dated January 19, 1892.

Application filed August 6, 1891. Serial No. 401,919. (No model.) Patented in England January 2, 1891, No. 107; in France May 19, 1891, No. 213,554; in Belgium May 19, 1891, No. 94,941, and in Italy August 10, 1891, XXV, 30,251, and LIX, 278.

To all whom it may concern:

Be it known that I, WILLIAM SPEIRS SIMPSON, a subject of the Queen of Great Britain, residing at 49 Battersea Park Road, London, in the county of Surrey, England, have invented certain new and useful Improvements in Vending Apparatus, (for which I have obtained patents in Great Britain, No. 107, dated January 2, 1891; in France, No. 213,554, dated May 19, 1891; in Belgium, No. 94,941, dated May 19, 1891, and in Italy, Vol. XXV, No. 30,251 and Vol. LIX, No. 278, dated August 10, 1891,) of which the following is a full, clear, and exact specification.

This invention has for its object to provide novel means for arranging a book of fairy tales, or a novel, or a game, or other article in a locked casing, so that on the insertion of a coin and the movement of a lever the door or lid of the casing is released and the book or other article can be removed.

To accomplish this object my invention involves the features of construction and the combination or arrangement of devices hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a rear elevation of the casing, the hinged back being omitted. Fig. 2 is a vertical sectional view of the same, showing the casing in its closed position; and Fig. 3 is a similar view showing the casing in its open position and the book or article removed therefrom.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring to the drawings, where it will be seen that the casing comprises the side walls *a b* and the end walls *c d*. The back *f* of the casing is hinged at one end, as at *g*, to the top wall *c*, so that such back can open outward for gaining access to the coin box or receptacle. The casing is divided by a vertical partition *e*, which carries a coin-chute *w*, so arranged as to deposit the coin into the coin-box *x* when the hinged back *f* is in its closed position. The movable lid or cover *t* of the casing is pivoted at its lower end, as at *i*, and at its upper end is provided with a suitable catch-plate *u*.

This cover is adapted to receive the book or other article which is to be locked in the casing.

In the upper portion of the casing, at a point in rear of the partition *e*, is arranged a shaft or axle *p*, carrying a rocking yoke or frame *p'*, suitably provided with a pawl *q* and having at one end a hooked catch *r*, projecting through the partition *e* and adapted to engage and disengage the catch-plate *u* of the lid or cover *t*. The rocking yoke or frame *q'* is held in position for the engagement of the hooked catch *r* with the catch-plate *u* through the medium of a suitable spring *s*, which, as shown, encircles the shaft or axle *p* and has one end arranged to bear against the rocking yoke or frame *q'*, while the other end is secured to the side *b* of the casing. The lever *h* is pivoted at its lower end to the partition *e* at the rear thereof, and its opposite end projects through the casing and is provided with a suitable finger piece or handle *m*. The lever is provided with a wing *k* and a lateral projection *j* for the purpose of bearing against and moving a coin, which is inserted into the casing through a suitable coin-slot therein, so that such coin will fall upon an inclined rest-plate *l* in such manner that when the lever *h* is swung, as indicated by dotted lines, Fig. 1, the coin is caused to act on the pawl *q*, projecting from the yoke or frame *q'*, thereby rocking the latter for the purpose of releasing the hooked catch *r* from the catch-plate *u* to release the lid or cover *t* and enable the hook or other article to be removed.

In order to automatically swing the lid or cover to its open position, Fig. 3, I provide the partition *e* with a pivoted arm *v*, having a tail-piece, which is acted upon by a spring *v'*, secured to the partition in such manner that when a book or other article is arranged in the lid or cover and the latter is closed the arm *v* will be forced into the position indicated in Fig. 2, thereby placing the spring *v'* under tension, so that when the lid or cover is released from the hooked catch the power of the spring will tend to move the arm *v* into an approximately horizontal position to force the lid or cover into its open position, as in Fig. 3. The lever *h* is held in its normal po-

sition through the medium of a spring *n*, connected at one end to the partition *e* and at its opposite end to the lever.

The yoke or frame *q'* is formed with a depression *y'* to provide an elevation *y''*, which is substantially parallel with the top wall *c* of the casing, and to the lever *h* is pivoted an arm *y*, which, in the normal position of the lever *h*, rests between the elevation *y''* and the top wall *c* of the casing for the purpose of locking the yoke or frame *q* against a rocking motion. When, however, a coin is inserted into the casing and rests upon the plate *l* and the lever *h* is moved, as indicated by dotted lines, Fig. 1, the arm *y* will pass into the depression *y'* of the yoke or frame *q'*, so that the coin can act on the pawl *q* for rocking the yoke or frame and causing the catch *r* to release the lid or cover *t*. The coin which is moved from the rest-plate *l* by the lever *h* falls into the coin-chute *w* and is deposited in the coin box or receptacle *x*.

The coin-slot (indicated by dotted lines *a'*, Fig. 1) may be constructed and arranged in any part of the casing suitable for the conditions required, it only being essential that the inserted coin will pass to and be supported by the rest-plate *l* to place the coin in proper position to be acted on by the lateral projection *j* of the lever *h* when the latter is operated.

Having thus described my invention, what I claim is—

1. The combination of a casing having a coin-slot and a partition arranged therein to divide such casing into two compartments, a rocking yoke or frame journaled in one end-portion of the casing and having a pawl to be engaged by a coin and a catch which extends through the partition to engage and lock the hinged lid in its closed position, a rest by which the coin is temporarily supported, and a pivoted lever swinging in a plane parallel with the partition extending from the casing

and having a lateral projection to move the coin along the coin-rest and cause it to act on the pawl to swing the yoke or frame, and thereby release the catch from engagement with the hinged lid, substantially as described.

2. The combination of a casing having a coin-slot and an opening and closing lid, a partition arranged in the casing and having a spring-impelled arm for automatically opening the lid, a rocking yoke or frame having a pawl to be engaged by a coin and a catch to engage and lock the lid in its closed position, a rest-plate by which the coin is temporarily supported, and a lever pivoted to the partition extending from the casing and having a lateral projection to move the coin and cause it to act on the pawl for rocking the yoke or frame to release the catch from engagement with the lid, substantially as described.

3. The combination of a casing having a coin-slot and an opening and closing lid, a rocking yoke or frame having a pawl to be engaged by a coin and a catch to engage and lock the lid in its closed position, a rest by which the coin is temporarily supported, a pivoted lever extending from the casing and having a projecting part to move the coin and cause it to act on the pawl for rocking the yoke or frame to release the catch from engagement with the lid, and a locking-arm connected with the lever for holding the yoke or frame rigid when the lever is in its normal position, substantially as described.

In witness whereof I have hereto signed my name, in the presence of two subscribing witnesses, this 25th day of May, 1891.

WILLIAM SPEIRS SIMPSON.

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