(No Model.)

2 Sheets—Sheet 1.

H. WESTPHAL.

HAT AND COAT RACK.

No. 506,756. Patented Oct. 17, 1893.

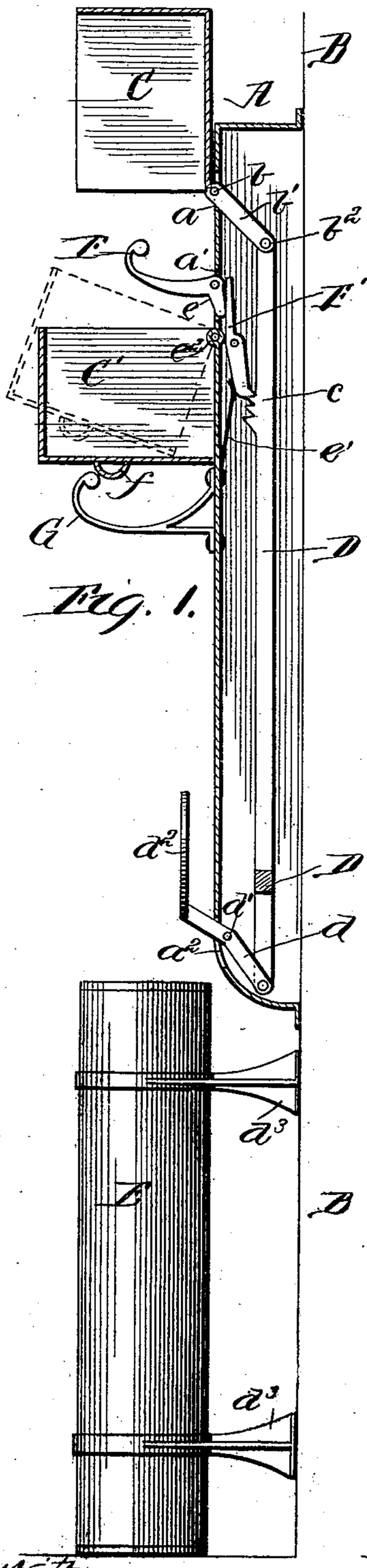


Fig. 1.

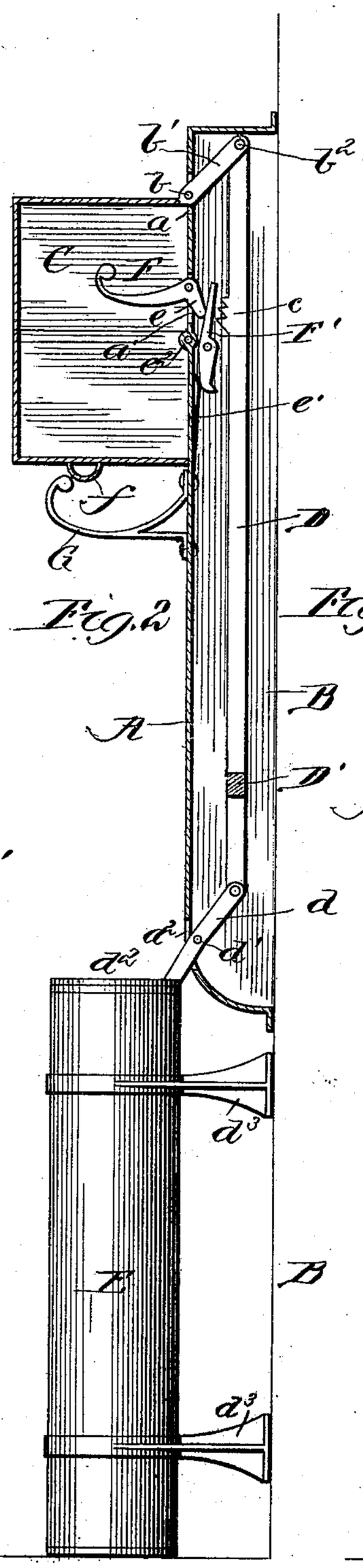


Fig. 2.

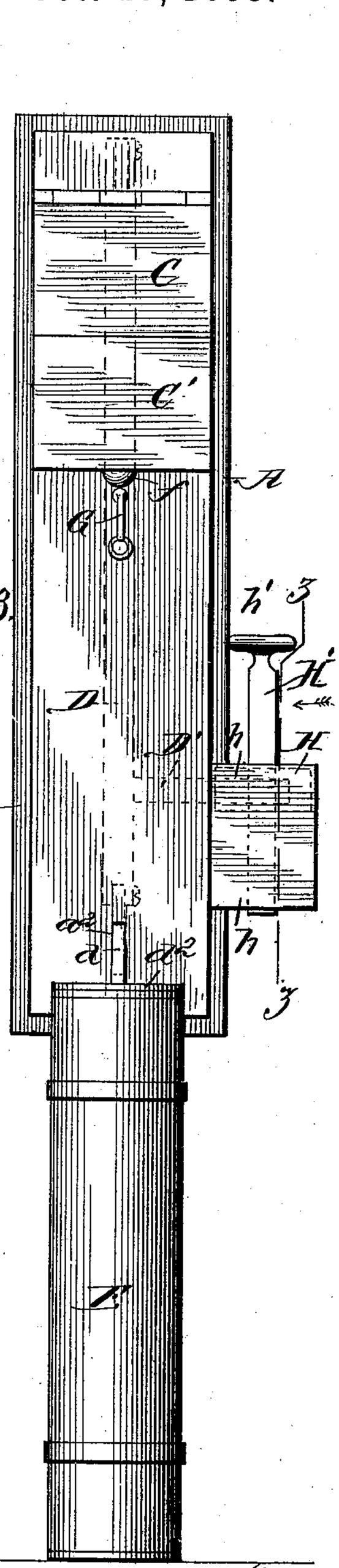


Fig. 3.

Witnesses.
Fred'k. A. Hyles.
E. A. Dugan.

Inventor
Henry Westphal
By Chas. D. Tillman Atty.

(No Model.)

2 Sheets—Sheet 2.

H. WESTPHAL.

HAT AND COAT RACK.

No. 506,756. Patented Oct. 17, 1893.

Fig. 4.

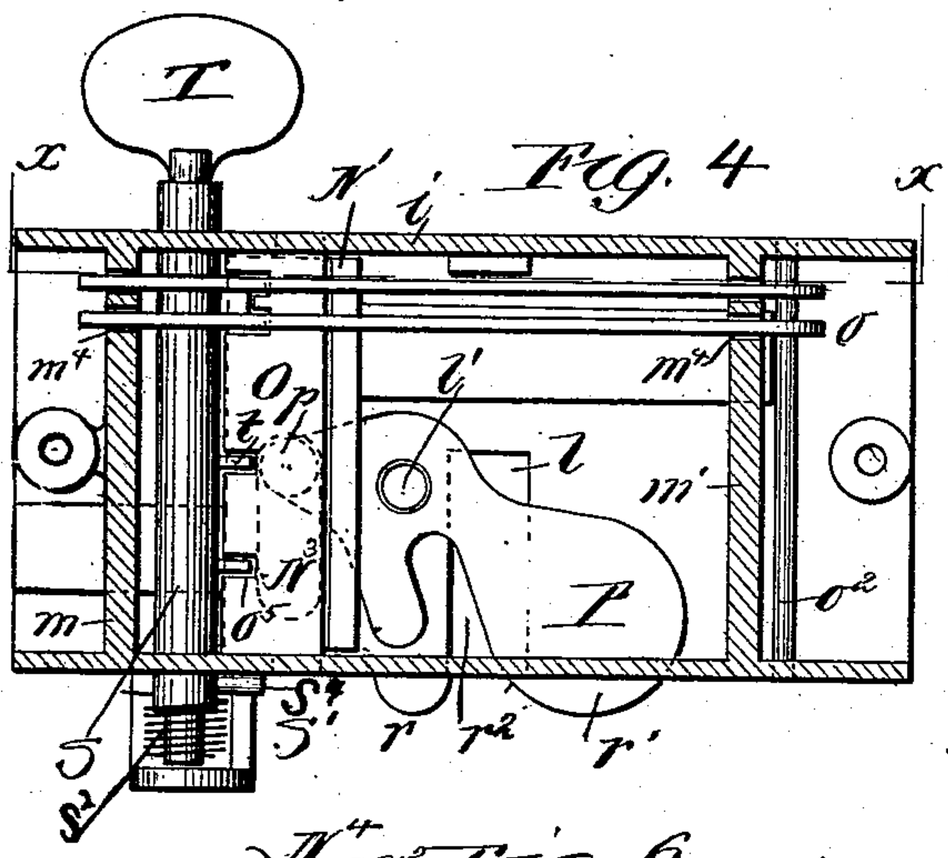


Fig. 5.

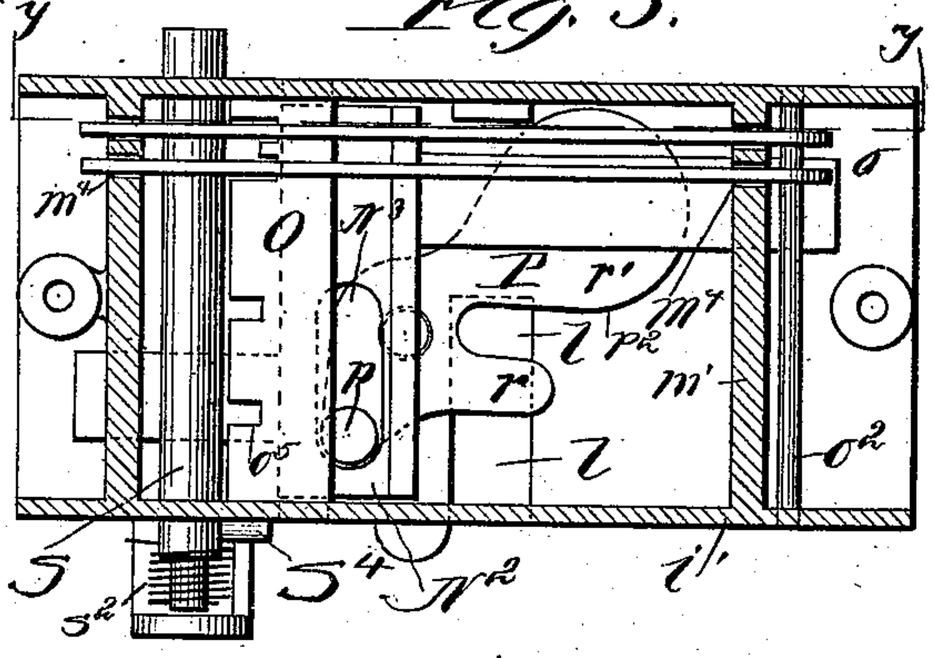


Fig. 6.

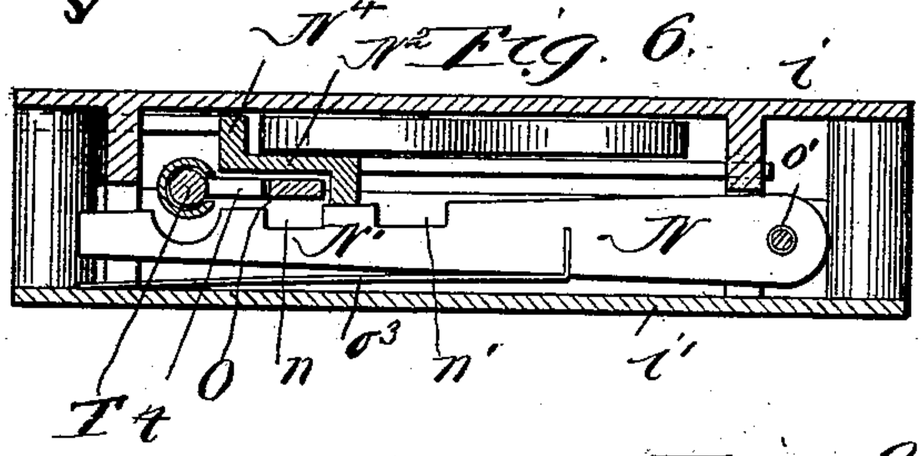


Fig. 7.

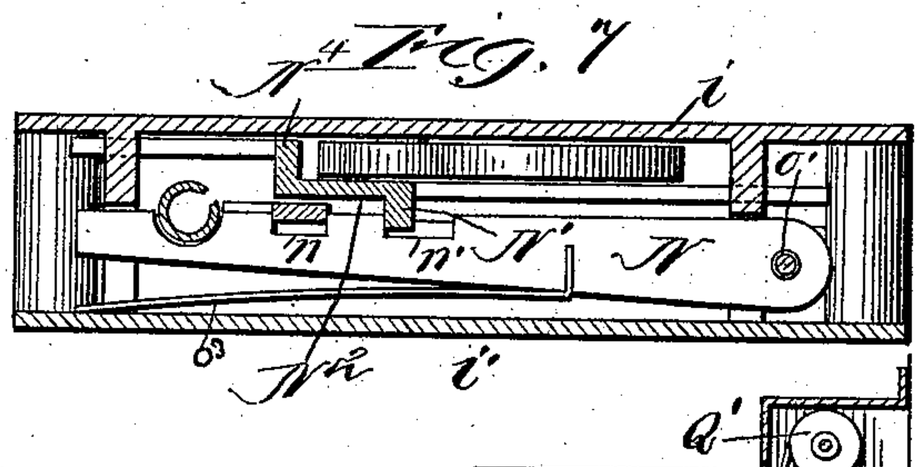


Fig. 8.

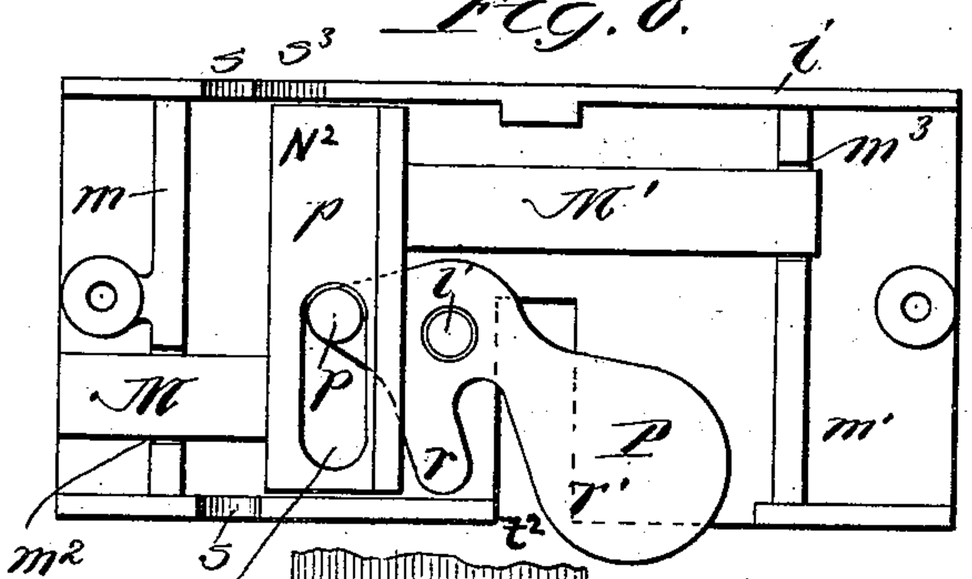


Fig. 9.

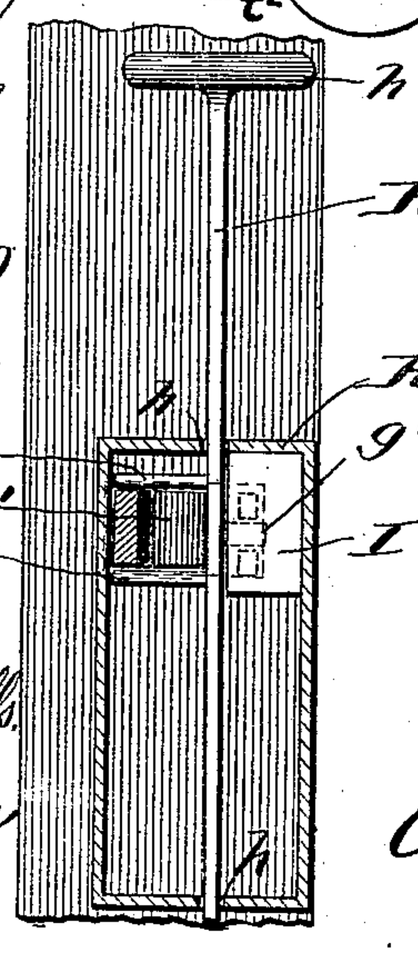
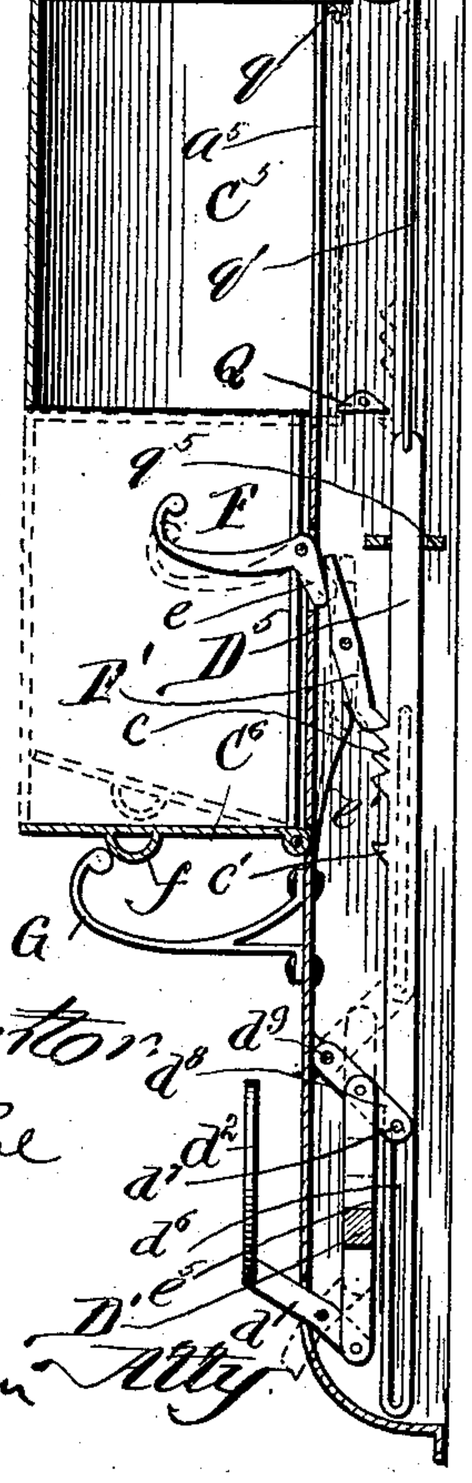


Fig. 10.



Witnesses.
Fred'k A. Wills.
E. A. Dugan

Inventor
Henry Westphal
By
Chas. C. Tillman
Atty.

UNITED STATES PATENT OFFICE.

HENRY WESTPHAL, OF CHICAGO, ILLINOIS.

HAT AND COAT RACK.

SPECIFICATION forming part of Letters Patent No. 506,756, dated October 17, 1893.

Application filed April 2, 1892. Serial No. 427,505. (No model.)

To all whom it may concern:

Be it known that I, HENRY WESTPHAL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Combined Hat and Coat Rack and Receptacle for other Articles, of which the following is a specification.

This invention relates to improvements in combined hat and coat racks and receptacles for other articles, and consists in certain peculiarities of the construction and novel arrangement of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

The object of this invention is to afford a device for the safe keeping of hats and coats, and other articles, when desired, in which the articles and key used in locking them in the case, cannot both be removed at the same time.

In my application for Letters Patent No. 408,496, filed October 12, 1891, for an improvement in hat and coat racks, I have set forth a device which is designed for the above named purpose, but in which the hat and coat hooks are combined with the umbrella stand, and the key to the lock for securing the garments on the hooks and the door to the umbrella stand, may be released by placing an umbrella or similar article in the stand, the weight of which acts on a trap located in said stand, or when the stand is not used by raising the operating rod, while in the present application the hooks and receptacle for other articles are combined, and the key to the lock for securing the garments on the hooks, and the cover to the receptacle, may be released only by placing the garment or weight on the hat hook.

In order to enable others skilled in the art to which my invention pertains to make and use the same, I will now proceed to describe it referring to the accompanying drawings, in which—

Figure 1, is a view in side elevation, partly in section, showing the device as it appears when ready for the reception of articles. Fig. 2, is a similar view thereof, as it appears when closed or locked. Fig. 3, is a view in front elevation, showing the apparatus closed. Fig. 4, is a view of the lock in side elevation, with one of the plates of the casing removed, showing the key locked in. Fig. 5, is a similar view, showing the position of the parts of the lock when the key is removed. Fig. 6, is a plan sectional view, taken on line X, X, of Fig. 4. Fig. 7, is a like view, taken on line Y, Y, of Fig. 5. Fig. 8, is a view in side elevation of Fig. 4, with the key, guide, stay and tumblers removed. Fig. 9, is a view partly in side elevation, taken on line Z, Z, of Fig. 3, showing the manner of connecting the operating rod or handle, with the operating arm, and lock. Fig. 10, is a vertical sectional view of a modification of the hood or cover, for the hat and its operating mechanism.

Similar letters refer to corresponding parts throughout the different views of the drawings.

A, represents a casing made of any suitable size, form and material, which may be secured to the wall B, of a room, or other support, in any desired manner, and at a suitable point.

Within the front or face surface, the casing A, is provided or formed with a number of slots or openings a, a', and a^2, for the passage and operation of a portion of the operating levers and hat-hook, as will be presently explained. The opening or slot a, is formed as shown, near the upper portion of the casing A, about mid-way between its sides, and has secured therein, on a suitable pivot or axle b, a lever-arm b', which is rigidly secured to the hood or cover C, as is clearly shown in Figs. 1, and 2, which hood may be of any desired form or construction, but in the present case, is made as shown, in box or rectangular form, and when united with the box or receptacle C', will form a complete covering for the hat. The other end of the arm b', is pivotally secured as at b^2, to a rod or bar D, which is provided at a suitable point on its front surface, with ratchet teeth c, and has near its lower end a horizontal arm D', to engage the locking mechanism.

To the lower end of the rod D, is pivotally connected a lever d, which is fulcrumed to the casing A, as at d', and passes through and operates in the slot or opening a^2, and has its outer portion formed into, or provided with a cover d^2, of suitable size and form, to close the opening in the receptacle E, which

may be made of any size and form, adapted to receive almost any kind of articles, and may be secured to the wall B, by means of brackets d^3, or otherwise if desired.

Just below the opening or slot a, is formed the opening or slot a', in the casing, in which is fulcrumed a hat-hook F, which is preferably formed with its outer end upturned, with a small knob thereon, and its inner end with a short arm e, to engage with the upper portion of the pawl F', which pawl is fulcrumed to the sides of the casing at a point below the slot a', and operates in the hollow of said casing, and is adapted to engage at its lower end with the ratchet teeth c, on the rod D; a spring e', being secured to the inner surface of the front of the casing, and acting on the lower portion of the pawl, thus keeping it in engagement with the ratchet teeth, when the hood is in raised position.

Below the slot a', and to the front surface of the casing A, is hinged as at e^2, a box or other receptacle C', which is provided at its bottom with an enlargement or projection f, which, when the box is in its normal position, contacts with the outer end of the coat-hook G, which is preferably formed as shown with its outer end upturned, and rigidly secured at its other end to the front of the casing.

At one side of the casing A, and to the wall B, is secured a box or other inclosure H, which contains the lock I, and has its side adjacent to the casing A, open, or formed with an opening, to allow the operation therein of the arm D'. The upper and lower portions of this box, are provided with openings h, through and into which is passed and operates, the operating handle or rod H', which is formed at its top with a knob or other suitable hand-hold h', and is provided near its middle, and within the box H, with two horizontal projections g, between which is passed, and engages the outer end of the arm D'.

On the opposite side of the rod H', and about midway between the projections g, is formed a lug or projection g', which engages with the cam or wheel P, of the lock I, as will be more fully explained. The lock I, consists of a casing, composed of two plates i, i', the plate i, being formed with a slot l, near its middle as shown, and having close to each of its ends the ribs m, m', both of which are formed with openings or recesses m^2, m^3, in which the sliding bolts M, M', operate, and are thereby guided in their backward and forward movements. The opening or recess m^2, is formed near the lower portion of the rib m, and the opening or recess m^3, near the upper end of the rib m'. Near their upper portions, and on their surfaces, adjacent to the plate i', each of the ribs m, and m', are formed with recesses or mortises m^4, for the reception and operation of the spring actuated tumblers N, which are formed with recesses n, n', the former of which engages with the stay O, and the latter with the sliding rib or bead N', on the piece N^2, which unites the sliding bolts M, and M', and is preferably formed in cross-section, as shown in Figs. 6, and 7, with two projections N', and N^4, at its edges, extending in opposite directions, the flat piece N^2, being provided near its lower portion, with a vertical slot N^3, in which fits and operates a pin or lug p, on the bifurcated cam P, which cam is pivotally secured to the plate i, at a suitable point near the upper portion of the slot l, therein, as shown at l'. This cam is made as clearly shown in Figs. 4, 5, and 8, with two prongs r, r', (the latter being preferably enlarged or weighted as shown) which form an open slot or fork r^2, into which will engage the lug or pin g', on the rod H'.

As shown in Figs. 4, 5, and 6, the tumblers N, are pivotally secured as at o', on the rod o^2, having its bearings in the top and bottom of the casing, near the farther end from the key-guide, and are provided with springs o^3, which are interposed between the tumblers, and the plate i', and that they will be thus forced forward to engage with the bead or rib N, on the sliding piece N^2.

Near the rib m, the casing is provided in its top and bottom, with suitable circular openings s, through which is passed a split tube, or key-guide S, which has its bearing for its lower end in the depending bracket S', on the bottom of the lock casing. The lower end of the key-guide S, is provided with a spring s^2, which serves to revolve the key-guide, till the split therein, through which the projections t, on the key T, pass to engage with the tumblers, comes into alignment with the opening s^3, therefor in the top of the casing, and is prevented from turning the guide too far by means of the lug or pin s^4, secured thereto, which is so placed that it will strike the bracket S', which acts as a check.

The stay O, which is provided with a number of recesses o^5, to correspond with the number of projections t, on the key T, is rigidly secured in a vertical position longitudinally with the lock-casing, between the bead N', and the key-guide, and between the tumblers and the piece N^2. This stay is employed to regulate the combination of the lock, for it is obvious that the projections t, on the key must correspond in number and dimensions with the recesses in the stay; otherwise they would not pass through the same.

In Fig. 10, I have shown a modified form of the hood or inclosure for the hat, and also a modification of the operating mechanism, in which the hood or cover, instead of being rigidly secured to the lever b', as shown in Fig. 1, and above described, is formed with an arm q, to which is secured one end of a cord or chain q', which passes over a pulley Q', which pulley is journaled in the upper portion of the casing A. The arm q, passes through and operates in a vertical slot a^5, in the casing A, which is similar in construction to the slot a, except that it is much longer,

and extends downward about the length of the cover C^5. The other end of the cord or chain q^1, is secured to the upper portion of the rod D^5, which is formed on its front surface with ratchet teeth c, similar to those on the rod D, before set forth, and with which the pawl F', operated by the spring e', engages.

Slightly below the teeth c, the rod D^5, is provided with a projection or tooth c', which is adapted to engage when the rod is raised to the position indicated by dotted lines in Fig. 10, with a pawl Q, which is fulcrumed or pivotally balanced at a suitable point between the sides of the casing A, to engage with the arm q, of the hood C^5, when the same is lowered to the position shown by dotted lines. The lower portion of the rod D^5, is provided with a longitudinal slot d^6, within which operates and engages a pin d^7, on the free end of a lever d^8, which lever is fulcrumed at its other end to the front plate of the casing A, as shown at d^9, and has pivotally secured about its middle a bar e^5, which is provided with an arm D', to connect with the projections g, on the operating rod H', and with a lever d, which is fulcrumed, formed and operates substantially as before stated.

In order that the bar d^5, may operate vertically without lateral motion, I pass the same through a bracket g^5, secured to the side of the casing A. In this modification instead of using a box receptacle C', I simply use a floor C^6, with a projection f, on its under side to contact with the coat hook G, and hinge the same to the front of the casing A, in a manner similar to that shown in Figs. 1 and 2.

From the foregoing it will be seen and understood that when the hat is placed on the hook F, the said hook will be lowered by the weight thereof to the position shown by dotted lines, which operation will cause the arm e, to force the pawl F', out of engagement with the ratchet c, and thereby allow the hood or cover C^5, to descend until it reaches the floor C^6, when the arm q, and the tooth c', will engage the pawl Q, and firmly lock the hood or covering in position.

While I have shown the casing H, as being separate and apart from the casing A, yet it is evident that I may form them integral, without deviating from the spirit of my invention.

The operation of my device is simple, and as follows: When ready for the reception of any of the articles, the device appears as shown in Fig. 1, when a hat can be placed upon the hook F, and a coat upon the hook G, by raising the receptacle C', or in case the modification shown in Fig. 10, is used, by raising the floor C^6, when the weight of the hat, will lower the hook F, and thereby cause the pawl F', to disengage with the teeth c, and allow the hood or covering to be lowered until it unites with the receptacle C', or floor C^6, and thus form a complete inclosure for the hat or other garment, suspended on the hook F, and for the receptacle E. As will be clearly understood this operation will liberate the rod D, and allow it to be raised by means of the rod H', which engages therewith, and with the lock I, by means of the arm D' and projections g, and g', the latter projection extending into the slot l, of the plate i, of the lock, and engaging with the open slot r^2, or fork, between the prongs r, and r', on the cam P, when the upward movement of the operating bar or handle H', provided and engaging as before stated, with the projections g, g', and arm D', will cause the cam P, to be raised to the position indicated in Fig. 5, by dotted lines, the movement of which cam by means of its pin p, operating in the slot n^3, of the plate N^2, will cause the sliding bolts M, M', and the bead N', to be retracted to the position shown in Fig. 5, which operation removes the plate N^2, from interference with the projections on the shank of the key, and thus permits the key-guide S, to be partially revolved by means of the spring s^2, till the projections of the key are in alignment with the opening s^3, when the same may be withdrawn and the garments or other articles will be securely locked in their respective places. In order to release or remove the garments or other articles, it will be necessary to replace the key, when by turning the same, the hood or covering for the hat may be raised, in which operation the rod D, will be lowered, the covering d^2, of the receptacle E, lifted, and the cam P, of the lock will fall to its normal position, as shown in Fig. 4, which will interpose the plate N^2, between the projections on the key-shank, and the opening s^3, in the top of the casing, and prevent the key being removed. By reference to Fig. 5, it will be understood that the projection g', on the rod or bar H', which fits into the fork or open slot r^2, of the cam P, will be locked therein, by reason of the tumblers engaging with the bead N', on the sliding plate N^2. It will therefore be seen and understood that when the key is removed the garments are locked in, and when the garments are removed, the key is secured in the lock.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination in a hat and coat rack with a receptacle for articles, of a pivoted cover therefor, and a pivoted hook adapted to release the cover of the receptacle, whereby a garment or weight placed upon the hook will permit the receptacle to be closed and locked, as well as securing the garments against removal, substantially as described.

2. The combination in a hat and coat rack with a receptacle for articles, a pivoted cover therefor, a pivoted hook adapted to operate a catch connected with the cover of the receptacle, and a lock, whereby the garment or weight placed upon the hook will release the cover of the receptacle permitting it to be closed and locked, as well as securing the

garments against removal at the same time, and in which the key to the lock and the articles cannot both be removed at the same time, substantially as described.

3. The combination of the casing A, having openings in its surface, for the operation of the levers and hat hook, and a receptacle for other articles with the hook F, pivotally secured to the casing, the inclosure for the hat and cover for the receptacle, a connection uniting the said inclosure and cover, provided with an arm to engage a locking mechanism, and having the means, substantially as described, for securing the hat-inclosure and receptacle-cover in both a raised and lowered position, substantially as described.

4. The combination of the casing A, having openings in its surface with the hook F, pivotally secured to the casing, and extending through one of the openings in the casing, the inclosure for the hat mounted on a lever extending through another of said openings, a connection united at its upper portion to the lever upon which the hat inclosure is mounted, and provided at its lower part with an arm to engage a locking mechanism, and having the means, substantially as described for securing the hat inclosure in both a raised and lowered position, substantially as described.

5. The combination of the casing A, having the openings a, a', and a^2, with the hook F, having the arm e, pivotally secured to the casing in the slot a', the hook G, rigidly secured below the hook F, the lower portion of the hat inclosure, having the projection f, and hinged to the casing A, and adapted to engage with the hook G, the hat inclosure, having the lever-arm b', fulcrumed in the slot a, said arm being pivotally secured to the rod D, the rod D, having the ratchet c, and arm D', the spring actuated pawl F', adapted to engage the ratchet c, when the rod D, is in a lowered position, and the arm D', to engage a locking mechanism, substantially as and for the purpose set forth.

HENRY WESTPHAL.

Witnesses:
E. A. DUGAN,
CHAS. C. TILLMAN.