

984,383.

3 SHEETS—SHEET 1.



E. B. Galt.
Wm. Bagges

Inventor
Arthur J. Mason.

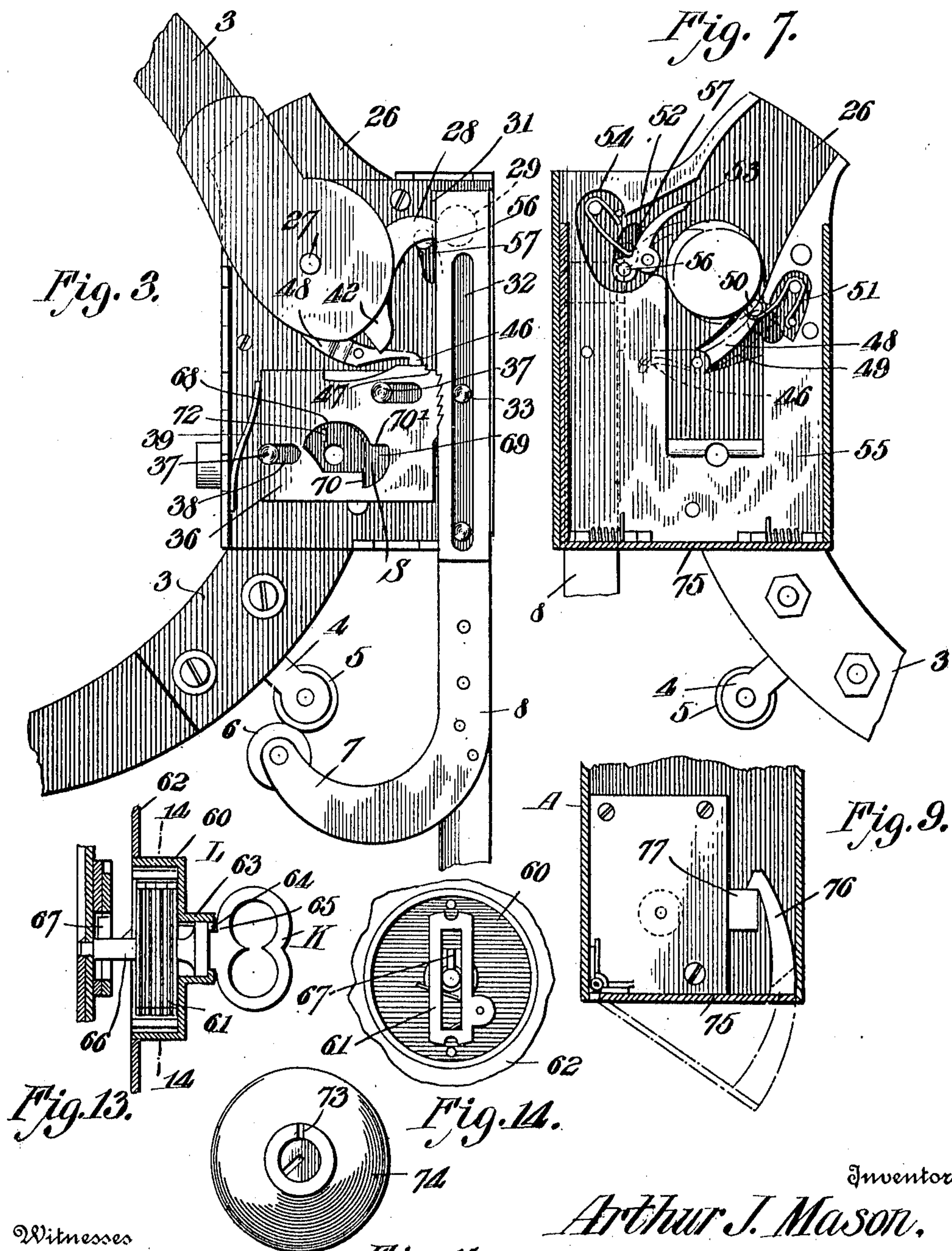
To, *Victor J. Evans.*
Attorney

A. J. MASON.
RACK FOR HATS, COATS, &c.
APPLICATION FILED FEB. 4, 1910.

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Patented Feb. 14, 1911.

3 SHEETS—SHEET 2.



Witnesses
Wm. B. Salt.
Wm. Bagger.

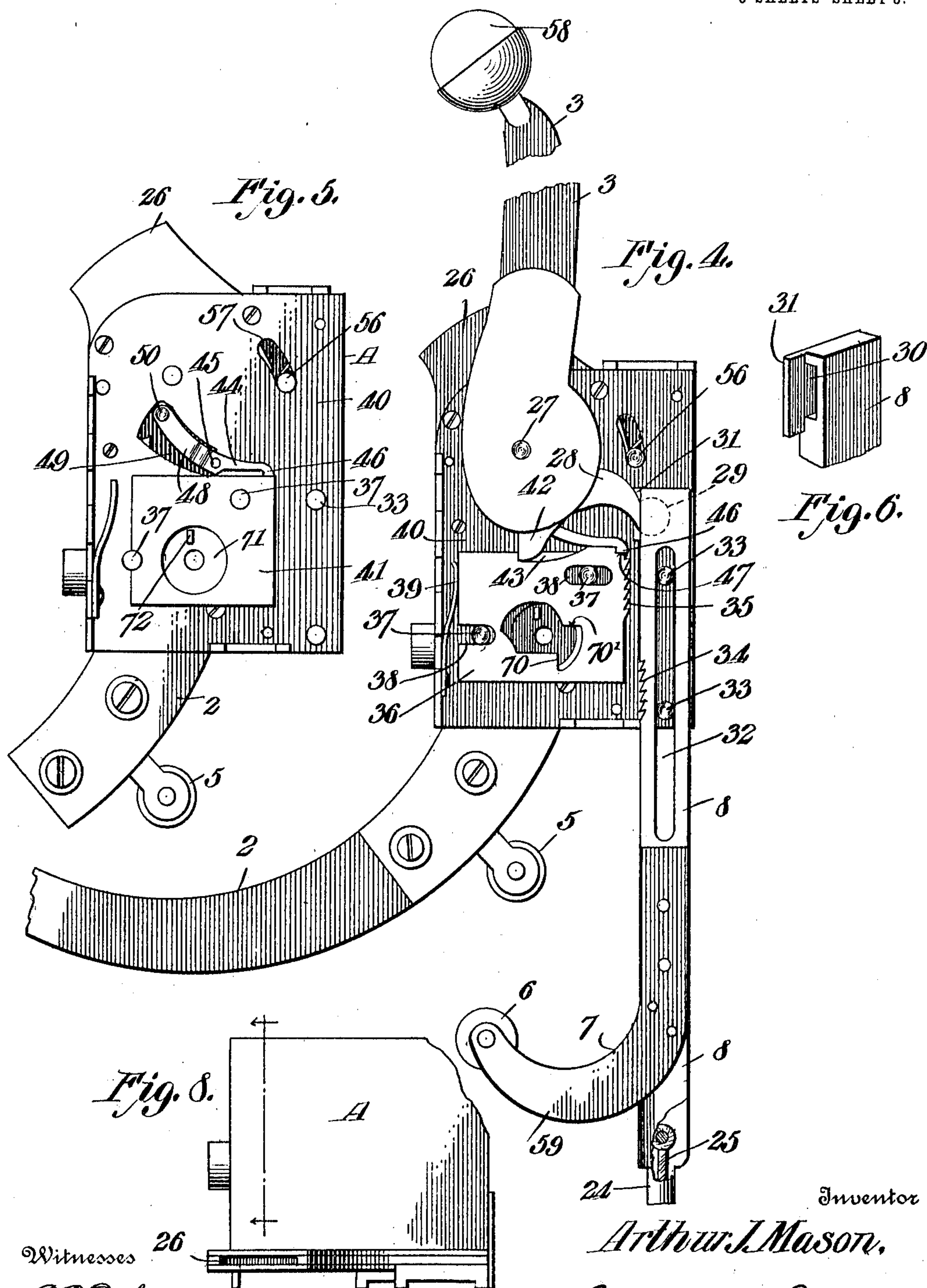
Inventor
Arthur J. Mason.
 By *Victor J. Evans.*
 Attorney

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3 SHEETS—SHEET 3.



Witnesses
Ed. Salt.
Wm. Ragger.

Inventor
Arthur J. Mason.
By Victor J. Evans
Attorney

UNITED STATES PATENT OFFICE.

ARTHUR JAMES MASON, OF HARTFORD, CONNECTICUT.

RACK FOR HATS, COATS, &c.

984,383.

Specification of Letters Patent.

Patented Feb. 14, 1911.

Application filed February 4, 1910. Serial No. 542,051.

To all whom it may concern:

Be it known that I, ARTHUR J. MASON, a citizen of the United States of America, residing at Hartford, in the county of Hartford and State of Connecticut, have invented new and useful Improvements in Racks for Hats, Coats, &c., of which the following is a specification.

This invention relates to an improved rack or supporting device for hats, coats and other articles including an umbrella, and it has among its objects the provision of a simple and efficient device of this class which upon the insertion of a coin shall be operable to lock the garments supported thereupon securely against unauthorized removal; a key being provided which upon the locking of the garment-securing mechanism shall be removable from the lock engaged thereby so that it may be carried by the owner of the garments, and the construction being of such a nature that upon the insertion of the key and the manipulation of the lock thereby to release the garment-securing mechanism, the said key shall itself be secured against removal from the lock.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention may be resorted to when desired.

In the drawings,—Figure 1 is a front view of a device constructed in accordance with the invention, the garment-securing means being shown in locked relation. Fig. 2 is a side elevation of the same. Fig. 3 is a view in side elevation of the main casing of the device, the lock-carrying covering plate having been removed, and the garment-securing members being shown in locked relation. Fig. 4 is a similar view, the garment-securing members being shown in unlocked relation. Fig. 5 is a view similar to Fig. 4, the coat hook carrying slide and the engaging and operating means coacting with said slide having been removed. Fig.

6 is a perspective detail view of the upper extremity of the coat hook carrying slide. Fig. 7 is a vertical sectional view of the main casing taken through the coin chute, said view being taken from the side opposite to that shown in Figs. 3, 4 and 5. Fig. 8 is a top plan view of the main casing, the lock-carrying plate having been removed. Fig. 9 is a sectional detail view of the coin receptacle. Fig. 10 is a vertical sectional detail view of the umbrella-securing device. Fig. 11 is a sectional view taken on the line 11—11 in Fig. 10. Fig. 12 is a plan view of the base portion of the umbrella-securing device and with the pivoted clamping members in position. Fig. 13 is a sectional detail view of the lock showing the key inserted. Fig. 14 is a sectional detail view taken on the line 14—14 in Fig. 13. Fig. 15 is a face view of the lock.

Corresponding parts in the several figures are denoted by like characters of reference.

Referring to the drawings, 1 designates a baseboard upon which the component parts or members of the device are secured. Said parts include a casing A constituting a coin receptacle and upon which a hat supporting arm 2 is firmly secured. A hat securing arm 3 is pivotally connected with the casing A in a manner which will be hereinafter more fully described. The hat supporting arm 2 is provided adjacent to the heel end thereof with a bracket member 4 carrying a garment holding or retaining member, such as a roller 5 adapted to cooperate with a similar member 6 carried by a coat supporting hook 7 which is mounted upon and carried by a vertically movable slide 8 which is suitably guided and supported, said slide being operatively connected with the hat securing member 3.

Mounted upon the base member 1 adjacent to the lower end of the latter is a bracket 9 in which a funnel-shaped cup 10 is removably supported to receive the tip of an umbrella. The umbrella handle is adapted to be held by a securing device comprising two clamping jaws 11 pivotally supported upon a base 12 and having arms 13 which are actuated by means of a suitably arranged spring 14, to force the clamping jaws 11 apart from each other. The clamping members are actuated against the tension of the spring to bring the clamping jaws 11 together in order to encircle the handle of an umbrella previously inserted

therebetween by means of a slide 15 supported in a casing 16 above the base 12, said slide being provided with angular slots 17 engaging lugs 18 that project upwardly from the arms 13 of the clamping members; the configuration of the slots 17 being such that by the inward movement of the slide 15 in the direction of the base board 1, upon which the base 12 and the casing 16 are secured, the ends of the arms 13 will be forced apart, thus closing the jaw members 11 together, while by the outward movement of the slide 15, the lugs 18 will be permitted to move in the direction of each other in the rear ends of the angular slots 17, thus permitting the jaw members to swing open, the opening movement being facilitated by the presence of the spring 14. The slide 15 is normally moved automatically in a forward direction to move the clamping jaws to an open position by the action of a spring 19 contained within a barrel 20 formed upon the casing and operating at one end against a lug 21 extending upwardly from the slide at its other end against a fixed partition member 22 having an aperture for the passage of a flexible element 25 which extends through the coiled spring 19 and is terminally connected at one end with the lug 21, thus enabling the slide 15 to be withdrawn against the tension of the spring. The flexible element 25 is guided through a tubular member 24 extending upwardly from the casing 16, the upper end of the flexible element 25 being firmly connected with the slide 8, as will be best seen in Fig. 4 of the drawings. Thus it will be seen that the tendency of the spring 19 is not only to push the slide 15 in a forward or outward direction but also to exercise strain in a downward direction upon the vertically slidable member 8.

The casing A is provided with a coin chute 26 adjacent to which the hat securing arm 3 is pivotally mounted upon a pin 27, which latter, however, does not extend into the coin chute so as to obstruct the latter. The arm 3 is provided near its pivoted or heel end with a bracket 28 having a terminal head 29 of approximately circular shape, said head engaging a slot or recess 30 formed in the slide 8 adjacent to the upper end of the latter; said slide being also provided adjacent to the recess 30 with a laterally extending flange 31. It may be here mentioned that the slide 8 is provided with a slot 32 engaging pins 33 in the casing A, whereby said slide is guided and whereby its vertical movement is limited. The slide 8 is provided at its outer edge with a series of ratchet teeth 34 adapted to be engaged by a corresponding series of teeth 35 formed upon a plate 36 which is guided for lateral slidable movement in the casing by means of pins 37 engaging slots 38 in said plate. The

latter is actuated in the direction of the slide 8 by means of a spring 39, and when the teeth 35 are in engagement with the teeth 34 of the slide 8, the latter will be retained in an elevated position, as will be best seen by reference to Fig. 3 of the drawings. The sliding plate 36 is spaced from the partition wall 40 of the casing A by a spacing plate 41 which may be loosely mounted upon the pins or studs 37, whereby the plate 36 is guided, said spacing plate being clearly shown in Fig. 5 of the drawings.

The slide engaging and supporting spring-actuated plate 36 is adapted to be retracted against the tension of the spring 39 by means of a lug 42 which projects from the hat securing arm 3 and engages a notch 43 in the upper surface of the plate 36, it being evident that the latter plate is retracted when the arm 3 is raised or elevated to the position shown in Fig. 4, while by the movement of the arm 3 in a downward direction to engage the hat supporting arm 2, the head 8 will be elevated. For the purpose of retaining the plate 36 in a retracted position until the opportune moment arrives for its release a dog or pawl 44 is provided, the same being pivotally supported upon the partition plate 40 by a pin 45, and said dog being provided with a tooth 46 adapted to engage a notch 47 in the upper edge of the plate 36. The dog 44 is provided with an arm 48 operating in a slot 49 in the partition plate 40 and having a laterally extending lug or stud 50 which extends transversely into the coin chute where it forms an obstruction to the passage of a coin, check or disk inserted in the said chute. A suitable spring 51 is arranged to engage the lug 50 so as to hold the latter normally in an obstructing position in the coin chute and at the same time to hold the dog 44 in engagement with the edge of the plate 36 so as to engage the notch 47 in said plate at the proper moment.

Pivotally supported in a recess 52 adjacent to the coin chute is a spring-actuated push finger 53 which normally occupies a non-obstructing position with relation to the coin chute but which, by manipulating it against the tension of its actuating spring 54, will move downwardly through a portion of the coin chute so as to engage a coin in circuit therein and temporarily resting upon the obstructing lug 50 so as to move the latter to a non-obstructing position that permits the coin to pass into a receptacle 55 into which the coin chute discharges, at the same time tripping the pawl 44 and releasing the plate 36 to permit the latter to be moved in a lateral direction under the impulse of the spring 39. The operation of the push finger 53 is effected by the flange 31 adjacent to the upper end of the slide 8 when the latter is moved in an upward di-

rection; the finger 53 being provided adjacent to the heel thereof with the lug 56 which extends through an arcuate slot 57 in the partition plate 40 so as to lie in the path of the above mentioned flange 31.

The hat supporting member 2 and the hat securing member 3 are provided at their meeting ends or points with suitably supported resilient balls or cushion members 58 of rubber or other suitable material, which are adapted to securely clamp between them the crown of a hat when the latter is placed upon the supporting member 2, the said members 2 and 3 being of ample dimensions to hold between them an ordinary stiff hat without injury to the brim or any other portion thereof.

The coat supporting hook 7 which is attached, as hereinbefore stated, upon the vertically movable slide 8 is provided with a roller or cylinder 6 which is loosely supported between the side members or arms 59 of said hook, the latter being essentially composed of said side members 59 which are divergently disposed with reference to each other. The slide 8 may be manipulated, as hereinbefore stated, by means of the hat securing member 3, and the parts of the device are so arranged and proportioned that when the resilient terminal members 58 of the members 2 and 3 are in contact with each other, the roller or obstructing member 6 of the coat supporting hook shall likewise be in direct contact with the obstructing member 5 supported by the member 2, thus securely locking a coat which has previously been hung upon the hook 7, as well as a hat previously placed upon the supporting member 2. The upward movement of slide 8 causes an inward movement of slide 15, thereby locking the arms 13, whereby the jaw members 11 are closed upon the handle of an umbrella previously deposited between said jaw members, the tip of the umbrella being supported in the cup 10.

To recapitulate: assuming the parts to be in the relative positions indicated in Fig. 4 of the drawings, after placing a hat upon the member 2 and a coat upon the hook member 7, upon the insertion of a coin in the chute, the member 3 is moved downward in the direction of the member 2, thus elevating the slide 8 until the members 5, 6, as well as the cushion members 58 at the ends of the members 2 and 3 engage between them the coat and the hat, respectively. The flange 31 of the slide 8 will engage and displace the lock 56, actuating the push finger 53 against the tension of the spring 54 and causing it to press the coin downwardly against the obstructing lug 50, as has been clearly indicated in dotted lines in Fig. 7. By the continued upward movement of the slide, the push finger 53 will be further actuated until the coin is pushed past the obstructing lug

51, at the same time tilting the arm 48 and the dog 44, disengaging the tooth 46 from the recess 47 of the sliding plate 36, which latter is now by the spring 39 moved laterally until the teeth 35 engage the teeth 34 of the slide 8, which latter will now be supported in an elevated position. By forming a plurality of teeth 34 and 35 upon the slide 8 and the plate 36, respectively, the slide 8 may be firmly supported at slightly different elevations to compensate for the thickness of material engaged between the members 5 and 6. At the same time, as previously described, the umbrella securing device will be actuated, and the garments placed upon the rack will thus be firmly secured.

For the purpose of unlocking the device to admit of the removal of the garments an ordinary cylinder lock L is provided, the casing 60 containing the tumbler 61 being mounted upon the face plate 62 of the casing A, a portion of said plate being shown in Fig. 13. The key valve 63 is provided with the usual flange 64 to engage a notch 65 in the key K, whereby removal of the latter is prevented after it has been partially turned in the lock. The tumbler-carrying shank 66 is provided at its inner end with a bit 67 adapted to engage a slot S in the spring-actuated plate 36, said slot being provided with arcuate portions 68 and 69 and with shoulders or offsets 70 and 70'. The spacing plate 41 is provided with a circular aperture 71 for the accommodation of the bit 67, complete rotation of the tumbler-carrying shank 66 being prevented by an obstructing lug 72 which projects from the partition plate 40 into the aperture 71 in such a manner as to lie in the path of the bit 67.

If the key be inserted into the lock when the garment securing members are in locked relation, as shown in Fig. 3, the said key may be partially turned, thus causing the bit 67 to engage the shoulder 70 of the plate 36, thereby retracting the latter against the tension of the spring 39 until the notch 47 is engaged by the tooth 46 of the spring-actuated dog 44, whereby the plate will be held securely in retracted position; the weight of the garment supported upon the hook 7 will now move the slide 8 in a downward direction, thus swinging the hat-securing member 3 in an upward direction, and thus releasing the garments, the umbrella securing jaws being at the same time unlocked by the movement of the slide 15. By retracting the slide 36 the shoulder 70' of the slot S will be moved to lie in the path of the bit 67, thus preventing the key from being turned in the lock to a position at which it may be removed through the slot 73 of the face plate 74. The key must thus remain in the lock until upon the insertion

of a coin, the slide 8 is again moved in an upward direction to a position where it may be engaged by the spring-actuated plate 36, which will then be in a position to enable the key to be turned and removed from the lock.

The coin receptacle is provided with a hingedly supported bottom door 75 equipped with a hook member 76 adapted to be engaged by a key-operated latch member 77 to retain the bottom closure in a closed position.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of this invention will be readily understood.

The improved device is simple in construction and will be found to be thoroughly effective for the purposes for which it is provided.

Having thus described the invention, what is claimed as new, is:—

1. In a device of the character described, a casing, a hat supporting member extending therefrom, a coacting hat securing member pivotally supported in the casing, a vertically movable slide having a coat supporting hook, coacting garment holders consisting of rollers carried respectively by the coat supporting hook and the hat supporting member, means extending from the pivoted hat securing member for engaging and actuating the vertically movable slide, a spring-actuated slidably supported plate having laterally extending teeth, corresponding teeth formed upon the vertically movable slide, means extending from the pivoted hat securing member for engaging and retracting the toothed plate against the action of the spring, and spring-actuated means for retaining said plate in a retracted position.

2. In a device of the character described, a casing, a vertically movable slide having teeth formed in one edge thereof and provided adjacent to its upper end with a recess, a member pivotally supported in the casing and having an arm with a terminal head engaging the recess in the vertically movable slide, a laterally movable spring-actuated plate having teeth projecting at one edge adapted to engage the teeth in the vertically movable slide, means extending from the pivotally supported member for re-

tracting the sliding plate against the tension of the spring, and spring-actuated means for retaining the sliding plate in a retracted position.

3. In a device of the character described, a casing, a slide guided for vertical movement in said casing and having a coat supporting hook, a hat supporting member extending from the casing, coacting garment holders upon the coat supporting hook and the hat supporting member, and a pivotally supported hat securing member operatively connected with the vertically movable slide to be moved to a non-engaging position with relation to the hat supporting member when the slide is moved downwardly by gravity of a garment supported upon the hook connected therewith.

4. In a device of the character described, an umbrella securing device including a supporting member, clamping jaws pivotally supported thereon and having arms provided with upwardly extending lugs, a suitably supported spring-actuated slide having angular slots receiving said lugs, and means for operating the spring-actuated slide including a vertically movable slide having a garment supporting hook and suitably guided flexible means connecting said vertically movable slide with the spring-actuated slidable plate.

5. In a device of the character described, a casing, a vertically movable slide carrying a garment supporting hook, a hat supporting member carrying a garment holder located in the path of the garment supporting hook, a hat securing member operatively connected with the vertically movable slide, a laterally movable spring-actuated plate adapted to engage the vertically movable slide to support the latter in a raised position, means for disengaging the spring-actuated plate from the vertically movable slide including a tumbler lock and key, and means for preventing withdrawal of the key from the lock when the spring-actuated plate is retracted from engagement with the vertically movable slide.

In testimony whereof I affix my signature in presence of two witnesses.

ARTHUR JAMES MASON.

Witnesses:

WILLIAM G. COXETER,
SOLOMON ELSNER.