A. KAUFMANN.

BAG FASTENER.

APPLICATION FILED AUG. 1, 1913.

1,082,124. Patented Dec. 23, 1913.

2 SHEETS—SHEET 1.

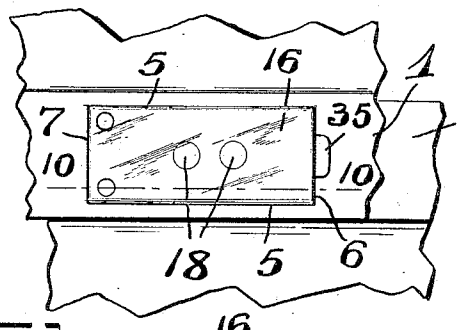


Fig. 1

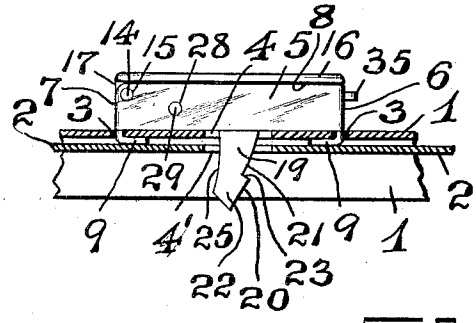


Fig. 2

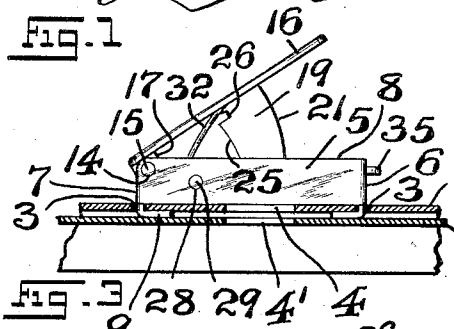


Fig. 3

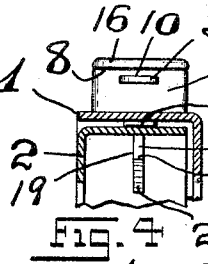


Fig. 4

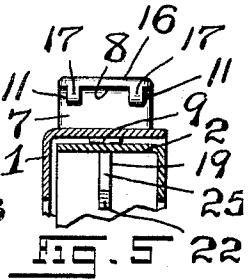


Fig. 5

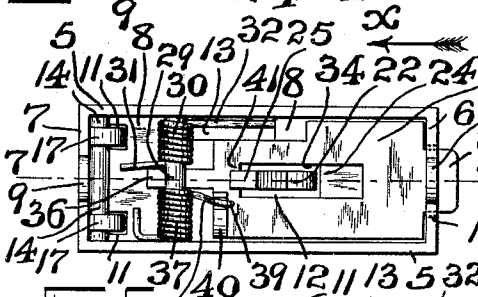


Fig. 6

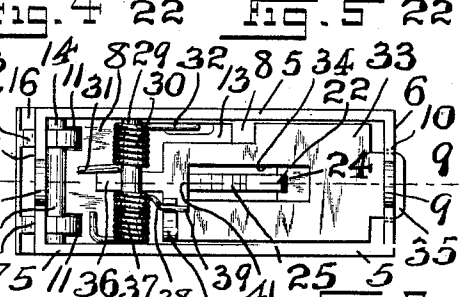


Fig. 8

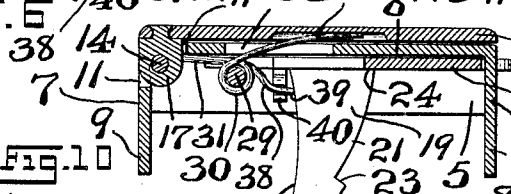


Fig. 10

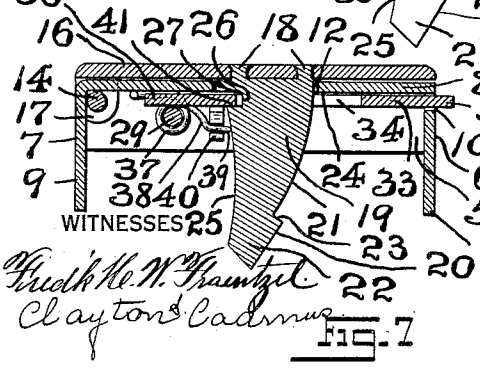


Fig. 7

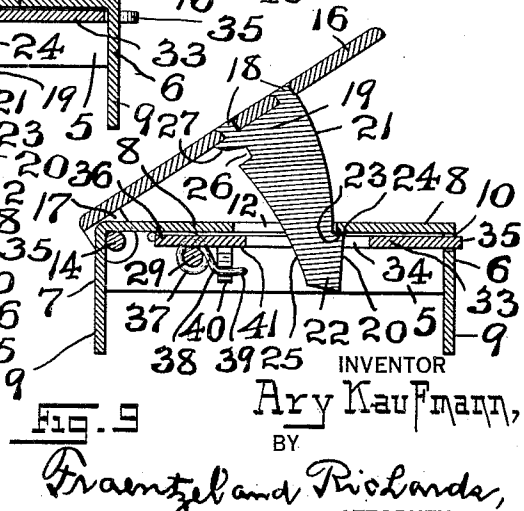


Fig. 9

WITNESSES

Fredk. W. Fraentzel

Clayton Cadmus

INVENTOR

Ary Kaufmann,

BY

Fraentzel and Richards,

ATTORNEYS

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

A. KAUFMANN.

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2 SHEETS—SHEET 2.

Fig. 11

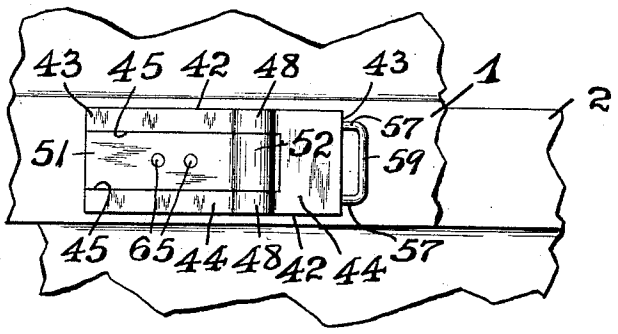


Fig. 13

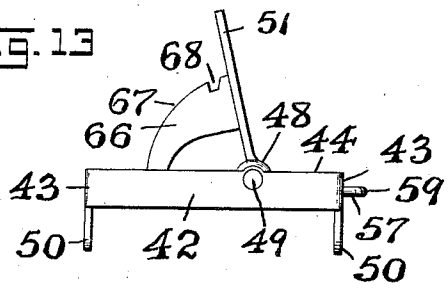
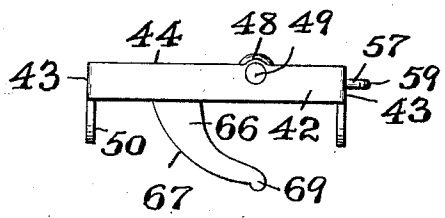


Fig. 12



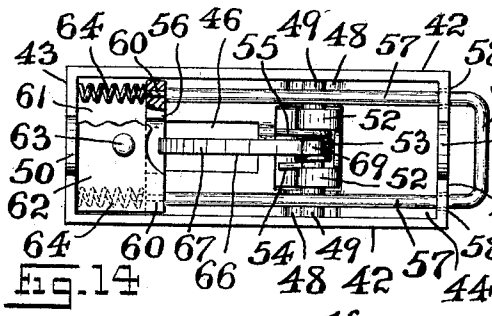


Fig. 14

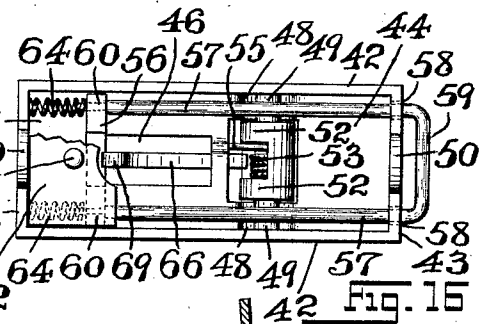


Fig. 16

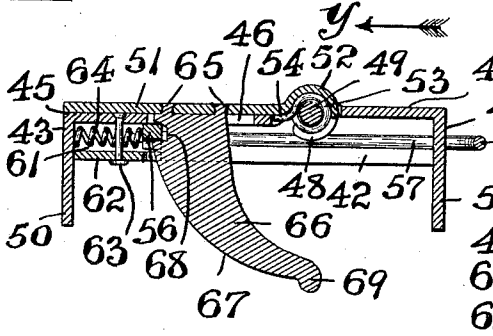


Fig. 15

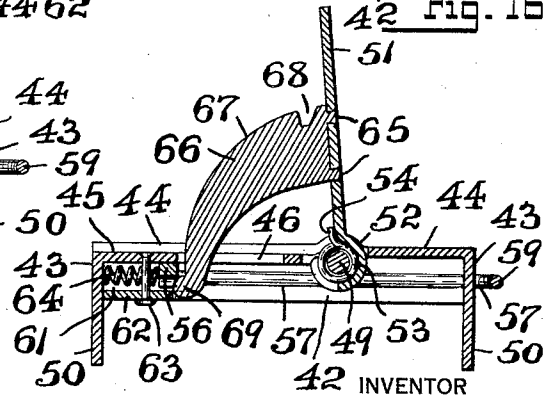


Fig. 17

WITNESSES:

Fredk W. Fraentzel

Clayton S. Cadmus.

INVENTOR

Ary Kaufmann,

BY

Fraentzel and Richards,

ATTORNEYS

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ARY KAUFMANN, OF NEWARK, NEW JERSEY, ASSIGNOR TO K. KAUFMANN & CO., A CORPORATION OF NEW JERSEY.

BAG-FASTENER.

1,082,124. Specification of Letters Patent. Patented Dec. 23, 1913.

Application filed August 1, 1913. Serial No. 782,440.

To all whom it may concern:

Be it known that I, ARY KAUFMANN, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Bag-Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

The present invention has reference, generally, to improvements in that class of locks which are ordinarily employed with the hinged frame-sections of bags, suit-cases, and the like; and, the invention relates, more particularly, to a novel construction of safety-latch or lock for bag-frame sections, with a view of providing a simply constructed and positively acting construction, which can be readily manipulated so as to retain the hinged frame-sections in their locked relation, or for permitting the frame-sections to be brought into their separated or opened relation.

The invention has for its further object to provide a novel construction of bag-frame lock or latch in which the bolt-operating mechanism is concealed in a casing, and the casing being provided with a spring-controlled and hinged cover-plate with which said bolt is connected and moves, the parts being released from their normally locked relation by the manipulation of a push-piece extending from the end of the casing, and the parts being brought into their opened or closed relation, in either case, with a positive "snap".

Other objects of this invention not at this time more particularly mentioned will be understood from the following detailed description of the invention.

With the various objects of the invention in view, the invention consists, primarily, in the novel bag-frame lock or latch hereinafter set forth; and, the invention consists, furthermore, in the novel arrangements and combinations of the various devices and parts, as well as in the details of the construction of the said parts, all of which will be more fully described in the following specification, and then finally embodied in the clauses of the claim which are appended to and which form an essential part of the said specification.

The invention is illustrated in the accompanying drawings, in which:—

Figure 1 is a top or plan view of a portion of the upper part of a bag and frame-sections, showing, also in top a plan view, a bag-lock made according to and embodying the principles of the present invention. Fig. 2 is a side-representation of the bag-lock and a longitudinal vertical representation of the frame-sections of the bag, the parts being shown in their normally locked relations; and Fig. 3 is a similar view of the lock and frame-sections, with the hinged bolt carrying cover-plate shown in its raised position, to permit of the separation or opened relation of the bag-frame sections. Fig. 4 is a transverse vertical sectional representation of the closed bag-frame sections, and an elevation of the one end of the bag-lock or latch in its secured position upon one of said frame-sections; and Fig. 5 is a similar sectional representation of the closed bag-frame sections, and an elevation of the other end of said bag-lock or latch. Fig. 6 is a bottom view of the bag-lock or latch, detached from the bag-frame section, said view being made on an enlarged scale, and the several parts of the lock-mechanism being represented in their normal initial positions; and Fig. 7 is a longitudinal vertical section of the same, said section being taken on line 7—7 in said Fig. 6. Fig. 8 is a bottom view of the bag-lock or latch, similar to that represented in said Fig. 6, showing the spring-controlled bolt-releasing plate in its operated and released relation with the bolt; and Fig. 9 is a longitudinal vertical section of the parts represented in said Fig. 8, said section being taken on line 9—9 in said Fig. 8. Fig. 10 is a longitudinal vertical section of the bag-lock or latch, said section being taken on line 10—10 in said Fig. 1. Fig. 11 is a top or plan view of a portion of the upper part of a bag and frame-sections, and a top or plan view of a bag-lock or latch of a modified form of construction, but still embodying the principles of the present invention; Fig. 12 is a side elevation of said bag-lock, detached from the frame-section, with the bolt and pivoted or hinged bolt-carrying plate in their normal initial positions, when the bolt is in its retaining or

holding relation with the frame-sections; and Fig. 13 is a similar view of the lock or latch, showing the bolt and bolt-carrying plate in their relative positions, when brought into their disengaged relation from the frame-sections. Fig. 14 is a bottom view of the bag-lock or latch, represented in said Figs. 11, 12 and 13, said view being made on an enlarged scale, and the several parts of the lock-mechanism being represented in their normal initial positions; and Fig. 15 is a central longitudinal vertical section of the same. Fig. 16 is a bottom view of the said bag-lock or latch, similar to that represented in said Fig. 14, showing the parts of the mechanism in their operated and released relations; and Fig. 17 is a central longitudinal vertical section of the parts represented in said Fig. 16.

Similar characters of reference are employed in all of the above described views, to indicate corresponding parts.

Referring now to Figs. 1 to 10 inclusive, the reference-characters 1 and 2 indicate the top-portions of the usual pivotally connected or hinged bag-frame sections, the frame-section 1 being provided with suitably-disposed lug-receiving holes or openings 3, and the frame-sections 1 and 2 being respectively provided with registering bolt-receiving holes or openings 4 and 4′, as will be seen from an inspection of Figs. 2 and 3 of the drawings.

The bag-lock or latch which is to be mounted upon the outer face of the upper frame-section 1 consists, essentially of a suitably shaped casing or box, comprising longitudinally extending sides 5, ends 6 and 7, and a top 8. Extending from the lower marginal edges of the said ends 6 and 7 are suitably formed fastening lugs 9, which are inserted in the lug-receiving holes 3 of the frame-section 1, and are suitably bent against the inner face of said frame-section, for permanently securing said casing or box in position upon the upper face of said frame-section. The end 6 of said casing or box is made with a finger or push-piece receiving opening, as 10, and in the upper portion of the end 7 and the top 8, at points near said end 7, are suitably formed openings, as 11, for the reception of suitable pivot-ears, in the manner and for the purposes to be presently set forth. The top 8 is made with a centrally disposed elongated bolt-receiving opening 12, and at one side, in said top, and located near one of the longitudinally extending sides 5 of the casing or box, is another longitudinally extending elongated opening, as 13. Extending laterally across the inner or chambered part of the casing or box, at a point beneath and in front of the openings 11 is a pivot-pin 14, said pin having its end-portions suitably secured in correspondingly disposed holes or perforations 15 in the respective sides 5 of the casing or box. Suitably disposed upon the upper face of the top 8 is a bolt-carrying plate 16 provided at one end with downwardly projecting and perforated pivot-ears or lugs 17 which extend into and through the openings 11 and are pivotally mounted upon the pivot-pin 14, for connecting said bolt-carrying plate 16 in a hinge-like manner with the upper surface of said top 8 of the casing or box. Suitably disposed and secured upon the lower face of said plate 16, by means of fastening lugs 18, or other suitable securing means, is a suitably formed bolt, as 19, said bolt extending into and projecting through the elongated opening 12 in the top 8, and being adapted to move in said opening 12, as will be clearly evident from an inspection of Figs. 6, 7, 8 and 9 of the drawings. The marginal edge-portion 20 of said bolt 19 is convexly curved, as at 21, and near its lower and preferably angularly pointed end 22, there is a suitably formed offset, as 23, which provides a stop and which is adapted to engage the under surface of the top 8 at a point 24, see Figs. 8 and 9, when the bolt-carrying plate 16 has been brought into its raised position. In its opposite edge-portion 25, at a point suitably near the under face of the plate 16, the said edge-portion 25 is provided with a receiving recess, as 26, one edge-portion of which is also preferably curved, as at 27. Extending laterally across the inner or chambered part of the casing or box, with its end-portions suitably secured in perforations 28 in the sides of the casing or box 5, is another pin 29, upon which is mounted a coiled spring 30, having one end-portion 31 bearing upon the under face of the top 8, and having its other end-portion 32 extending upwardly through the elongated opening 13 in said top 8 and bearing forcibly against the lower face of the hinged bolt-carrying plate 16, substantially as shown in Figs. 3, 6, 8 and 10 of the drawings.

Slidably arranged within the casing or box, and longitudinally guided between the inner faces of the opposite sides 5 is a bolt-retaining and releasing plate or slide 33, provided with a centrally disposed elongated hole or opening 34, located directly beneath the hole or opening 12 in the top 8, and through which hole or opening 34 the bolt 19 also extends and is movably arranged therein. At its edge, near the end 6 of the casing or box, the said plate or slide 33 has a push or finger-piece, as 35, which extends into and through the opening 10 in said end 6, so as to be manipulated from the outside of the casing or box, to force the plate or slide 33 in a direction indicated by the arrow x, in Fig. 6. At its opposite end, the said plate or slide 33 has a finger or projection, as 36, which is slidably disposed in the space

between the upper part of the pin 29 and the lower face of the top 8, and which finger or projection, with the push or fingerpiece 35, positively retains the plate or slide 33 in slidable and operative relation within the casing or box, as will be fully understood from an inspection of the several figures of the drawings. That the said plate or slide 35, after it has been pushed in the direction of the arrow *x* in said Fig. 6, and into the position indicated in Figs. 8 and 9, will automatically return to its normal initial position, represented in Figs. 6 and 7, there is arranged upon the previously-mentioned pin 29, another coiled spring 37, the one free end-portion of which bears upon the under face of the top 8, and the other end-portion of the spring 37 being suitably bent, as at 38, and having its end 39 secured to a suitable projection, as 40, with which the plate or slide 33 is provided, and whereby, the force of the bent portion 38 of the spring 37 against the face of said projection 40 will cause the plate or slide 33 to be returned to its normal position, when the pressure is removed from the fingerpiece 35. Under normal conditions, when the hinged plate 16 and its bolt 19 are in the positions indicated in said Figs. 6 and 7, the edge-portion 41 of the elongated opening 34 in the plate or slide 33 will be in retaining engagement with the bolt 19, by having entered the receiving recess 26, as shown, so that the said bolt 19 and the hinged bolt-carrying plate 16 will be prevented from moving outwardly. When the parts are in these relative positions, the bolt prevents the separation of the two frame-sections 1 and 2, as will be evident. When, however, pressure is applied upon the push or fingerpiece 35, and the plate or slide 33 is moved in the direction of the arrow *x*, then the edge-portion 41 is removed from within and from its retaining engagement with the receiving recess 26 of the bolt 19, and immediately the spring 30 causes the plate 16 and its bolt 19 to be forced outwardly into their released relation indicated in Figs. 8 and 9, with the stop 23 of the bolt in its arresting engagement with the edge-portion 24 of the top 8. When in this position, the end 22 of the bolt has been withdrawn from the openings 4 and 5 in the respective frame-sections 1 and 2, and the hinged sections of the bag-frame can thereupon be brought into their separated or opened relation, as will be clearly understood. When the hinged bolt-carrying plate 16 and its bolt 19 are moved from the position indicated in Fig. 9 to the position represented in Fig. 7, the part 41, of the plate or slide 33 again, and automatically, enters into its holding or retaining engagement with the receiving recess 26 of the bolt 19.

Referring now to the modified construction of bag-lock or latch illustrated in Figs. 11 to 17 inclusive, the casing or box comprises a pair of longitudinally extending sides 42, ends 43, and a top 44, the said top being preferably provided in a part of its upper surface with a longitudinally extending depression or recess, as 45, for the purposes to be presently set forth. The said depressed portion or recess 45 is also provided with a centrally disposed elongated opening, as 46, the top 44 being also formed with an opening 47, and a pair of outwardly and upwardly extending pivot-ears 48. Within the said casing or box, and extending laterally beneath said opening 47, is a pin 49, the end-portions of which are suitably secured in said pivot-ears 48. The casing or box, in this instance, is also provided at its ends with downwardly extending fastening lugs 50, by means of which it is secured upon the upper surface of the frame-section 1, in the manner of the construction represented in said Figs. 1 to 10 inclusive. Pivotally mounted upon said pin 49, by means of suitable pivot ears 52, is a bolt-carrying plate 51, said plate being of such width, so that, when it is in its closed position, it registers with and is fitted in said depression or recess 45, and in that position its upper face will be flush with the upper face of the top 44. Suitably mounted upon said pin 49 is a coiled spring 53, having one end-portion 54 extending and bearing upon the upper surface of said depressed part 45, see Figs. 14 and 16, and said opening having its other end-portion 55 bearing forcibly against the lower face of said hinged bolt-carrying plate 51. Slidably arranged within the casing or box is a bolt-retaining and releasing slide, the slide in this case consisting of a cross-bar 56, and a pair of wire-like rods 57, which extend through and are slidably arranged in suitably disposed holes or perforations 58 in one of the ends 43 of the casing or box, the projecting ends of said rods 57 being connected by a member 59 which forms a suitable push or fingerpiece, adapted to be manipulated from the outside of the casing or box, to force said slide in an inward direction. The opposite end-portions 60 of said rods 58 project from said cross-bar 56 into a chamber 61, formed by the top 44 and a plate 62, suitably connected by a pin or rivet 63, and arranged in said chamber, between the end-portions 60 of said rods 57, so as to bear against said cross-bar 58 and the inner face of the other end 43 of the casing or box, are a pair of coiled springs 64, the purpose of said springs being to return said slide to its normal initial position, after pressure has been removed from the push or fingerpiece 59, as will be clearly understood from an inspection of the several figures of the drawings. Suitably secured upon the lower face of the said plate 51, by

means of fastening lugs 65, or other suitable securing means, is a suitably formed bolt, as 66, made arc-shape, as shown, said bolt extending into and projecting through the opening 46 in the depressed part 45 and being adapted to move vertically in said opening 46 and between the rods 57 of the slide. Near its upper portion, and in the convexly-shaped edge-portion 67 of the bolt 66 is a cut-away or recessed receiving portion, as 68, with which the cross-bar 56 of the spring-controlled slide is normally in holding engagement, so as to maintain the hinged bolt-carrying plate 51, and its bolt, in their closed relation, represented in Figs. 11, 12, 14 and 15. At its lower end-portion, the said bolt 66 is made with a suitably formed projection, as 69, which is moved into retaining engagement with the edge-portion of the cross-bar 56, when the bolt-engaging and retaining slide has been pushed in the direction of the arrow *y*, in said Fig. 15, so as to move the cross-bar 56 out of its holding engagement with the recessed receiving portion 68 of the bolt 66, to retain the hinged bolt-carrying plate 51 and the bolt 66 in the positions shown in Figs. 13 and 17 of the drawings, and to thereby permit of the pivotal separation of the bag-frame sections, as will be clearly understood.

The manipulation and operation of the parts comprising the construction of bag-frame lock or latch illustrated in said Figs. 11 to 17 inclusive will be clearly understood from the foregoing description and from an inspection of said last-mentioned figures of the drawings, and need not, therefore, be further described.

Of course, I am fully aware, that changes may be made in the general arrangements and combinations of the several devices and parts, as well as in the details of the construction of the said parts, without departing from the scope of the present invention as set forth in the foregoing specification, and as defined in the clauses of the claims which are appended to the said specification. Hence, I do not limit myself to the exact arrangements and combinations of the devices and parts as described in the said specification, nor do I confine myself to the exact details of the construction of the said parts as illustrated in the accompanying drawings.

I claim:—

1. A bag-frame lock comprising a casing provided in its top with an opening, a bolt-carrying plate upon the upper surface of said casing and hinged thereto, a bolt extending downwardly from said plate and through the opening in said casing, a manually operated means connected with said casing but independent of said plate and bolt for normally maintaining a closed and locked relation of said plate and bolt with relation to said casing, but being adapted when operated to bring said plate and bolt into released relation, and means coöperating with said plate and bolt-retaining means for automatically raising said plate and bolt.

2. A bag-frame lock comprising a casing provided in its top with an opening, a spring-controlled bolt-carrying plate upon the upper surface of said casing and hinged thereto, a bolt extending downwardly from said plate and through the opening in said casing, a manually operated spring-controlled means connected with said casing but independent of said plate and bolt for normally maintaining a closed and locked relation of said plate and bolt with relation to said casing, but being adapted when operated to bring said plate and bolt into released relation, and means coöperating with said plate and bolt-retaining means for automatically raising said plate and bolt.

3. A bag-frame lock comprising a casing provided in its top with an opening, a bolt-carrying plate upon the upper surface of said casing and hinged thereto, a bolt extending downwardly from said plate and through the opening in said casing, a manually operated means connected with said casing but independent of said plate and bolt for normally maintaining a closed and locked relation of said plate and bolt with relation to said casing, but being adapted when operated to bring said plate and bolt into released relation, and means coöperating with said plate and bolt-retaining means for automatically raising said plate and bolt, and means connected with said bolt for limiting the outward movements of said plate and bolt.

4. A bag-frame lock comprising a casing provided in its top with an opening, a spring-controlled bolt-carrying plate upon the upper surface of said casing and hinged thereto, a bolt extending downwardly from said plate and through the opening in said casing, a manually operated spring-controlled means connected with said casing but independent of said plate and bolt for normally maintaining a closed and locked relation of said plate and bolt with relation to said casing, but being adapted when operated to bring said plate and bolt into released relation, and means coöperating with said plate and bolt-retaing means for automatically raising said plate and bolt, and means connected with said bolt for limiting the outward movements of said plate and bolt.

5. A bag-frame lock comprising a casing provided in its top with an opening, a bolt-carrying plate upon the upper surface of said casing and hinged thereto, a bolt extending downwardly from said plate and

through the opening in said casing, said casing being provided in one of its sides with a finger-piece receiving opening, a slide within said casing provided with a fingerpiece slidably arranged in and extending from said fingerpiece receiving opening, said slide being also provided with an opening through which said bolt extends, and means connected with said bolt with which said slide is normally in retaining engagement for maintaining a closed and locked relation of said plate and bolt with relation to said casing.

6. A bag-frame lock comprising a casing provided in its top with an opening, a bolt-carrying plate upon the upper surface of said casing and hinged thereto, a bolt extending downwardly from said plate and through the opening in said casing, said casing being provided in one of its sides with a finger-piece receiving opening, a slide within said casing provided with a fingerpiece slidably arranged in and extending from said fingerpiece receiving opening, said slide being also provided with an opening through which said bolt extends, means connected with said bolt with which said slide is normally in retaining engagement for maintaining a closed and locked relation of said plate and bolt with relation to said casing, and means connected with said bolt for limiting the outward movements of said plate and bolt.

7. A bag-frame lock comprising a casing provided in its top with an opening, a spring-controlled bolt-carrying plate upon the upper surface of said casing and hinged thereto, a bolt extending downwardly from said plate and through the opening in said casing, said casing being provided in one of its sides with a fingerpiece receiving opening, a spring-controlled slide within said casing provided with a fingerpiece slidably arranged in and extending from said fingerpiece receiving opening, said slide being also provided with an opening through which said bolt extends, and means connected with said bolt with which said slide is normally in retaining engagement for maintaining a closed and locked relation of said plate and bolt with relation to said casing.

8. A bag-frame lock comprising a casing provided in its top with an opening, a spring-controlled bolt-carrying plate upon the upper surface of said casing and hinged thereto, a bolt extending downwardly from said plate and through the opening in said casing, said casing being provided in one of its sides with a fingerpiece receiving opening, a spring-controlled slide within said casing provided with a fingerpiece slidably arranged in and extending from said fingerpiece receiving opening, said slide being also provided with an opening through which said bolt extends, means connected with said bolt with which said slide is normally in retaining engagement for maintaining a closed and locked relation of said plate and bolt with relation to said casing, and means connected with said bolt for limiting the outward movements of said plate and bolt.

9. A bag-frame lock comprising a casing provided in its top with an opening, a spring-controlled bolt-carrying plate upon the supper surface of said casing and hinged thereto, a bolt extending downwardly from said plate and through the opening in said casing, said casing being provided in one of its sides with a fingerpiece receiving opening, a spring-controlled slide within said casing provided with a fingerpiece slidably arranged in and extending from said fingerpiece receiving opening, said slide being also provided with an opening through which said bolt extends, and said bolt being provided in one of its marginal edge-portions with a receiving recess with which a portion of the slide is normally in retaining engagement for maintaining the closed and locked relation of said hinged plate and bolt with relation to said casing.

10. A bag-frame lock comprising a casing provided in its top with an opening, a spring-controlled bolt-carrying plate upon the upper surface of said casing and hinged thereto, a bolt extending downwardly from said plate and through the opening in said casing, said casing being provided in one of its sides with a fingerpiece receiving opening, a spring-controlled slide within said casing provided with a fingerpiece slidably arranged in and extending from said fingerpiece receiving opening, said slide being also provided with an opening through which said bolt extends, said bolt being provided in one of its marginal edge-portions with a receiving recess with which a portion of the slide is normally in retaining engagement for maintaining the closed and locked relation of said hinged plate and bolt with relation to said casing, and means connected with said bolt for limiting the outward movements of said plate and bolt.

11. A bag-frame lock comprising a casing provided in its top with an opening, a spring-controlled bolt-carrying plate upon the upper surface of said casing and hinged thereto, a bolt extending downwardly from said plate and through the opening in said casing, said casing being provided in one of its sides with a fingerpiece receiving opening, a spring-controlled slide within said casing provided with a fingerpiece slidably arranged in and extending from said fingerpiece receiving opening, said slide being also provided with an opening through which said bolt extends, said bolt being provided in one of its marginal edge-portions with a receiving recess with which a portion of the slide is normally in retaining engagement

for maintaining the closed and locked relation of said hinged plate and bolt with relation to said casing, and the said bolt being provided near its lower end-portion with an offset forming a stop adapted to be brought into engagement with the lower surface of the top of the casing for limiting the outward movements of said plate and bolt.

12. A bag-frame lock comprising a casing provided in its top with a pair of longitudinally extending elongated openings, said casing being also provided at one end with hinge-lug receiving openings and at the other end with a fingerpiece receiving opening, a pin within said casing located beneath said hinge-lug receiving openings, a bolt-carrying plate upon the upper surface of said casing, hinge-lugs extending from said plate, said hinge-lugs projecting through said hinge-lug receiving openings and pivotally mounted upon said pin, a bolt extending downwardly from said plate through one of said elongated openings in said top, a second pin within said casing, a coiled spring upon said last-mentioned pin having one end-portion bearing against the under surface of said top and having its other end-portion extending through the other elongated opening in the top and bearing upon the under face of said hinged bolt-carrying plate, a slide within said casing provided with a fingerpiece slidably arranged in and extending from said fingerpiece receiving opening, said slide being also provided with an opening through which said bolt extends, and means connected with said bolt with which said slide is normally in retaining engagement for maintaining a closed and unlocked relation of the hinged plate and bolt with relation to the casing.

In testimony, that I claim the invention set forth above I have hereunto set my hand this 29th day of July, 1913.

ARY KAUFMANN.

Witnesses:

FREDK. C. FRAENTZEL,

FREDK. H. W. FRAENTZEL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."