J. HAMMESFAHR.

BAG FASTENER.

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1,143,388.

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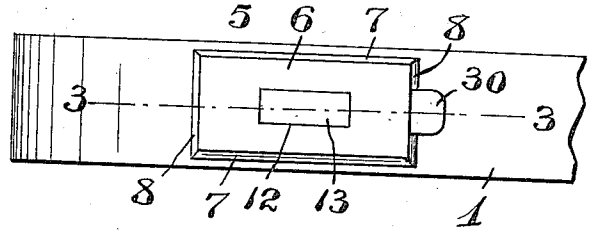


Fig. 1

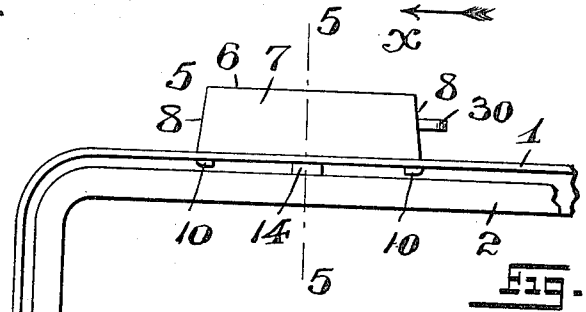


Fig. 2

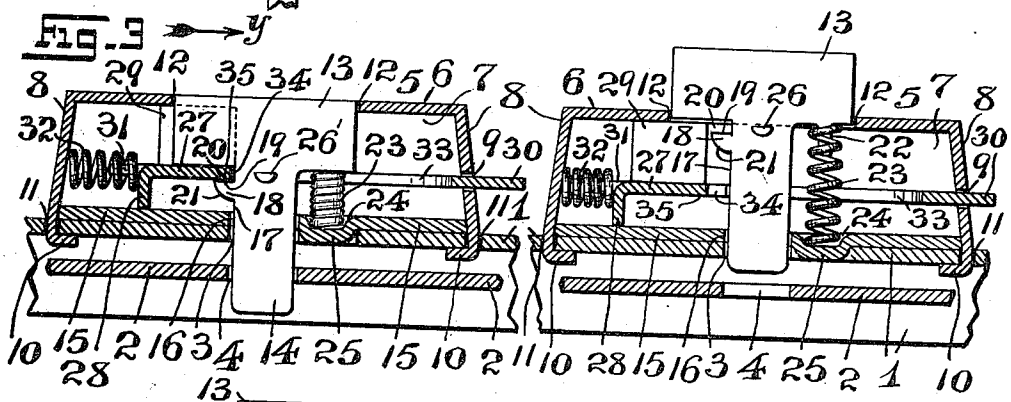


Fig. 3

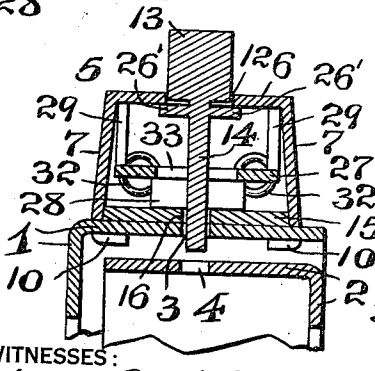


Fig. 5

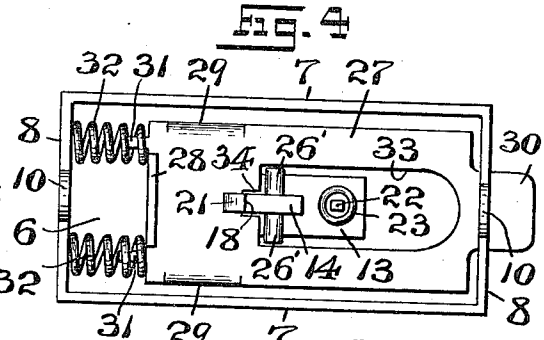


Fig. 6

Fig. 4

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BAG-FASTENER.

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To all whom it may concern:

Be it known that I, JULIUS HAMMESFAHR, 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.

This invention relates, generally, to improvements in bag-fasteners or catches for bag-frames; and, the present invention has reference, more particularly, to a simply-constructed bag-frame fastener or catch for the hinged frame-sections of bags, suit-cases, and the like, the frame-sections being of the kind where one frame-section is adapted to be moved beneath or within the other frame-section when the bag is closed, and the bag-fastener or catch being of the class which comprises a main shell, a vertically moving bolt, and a combined bolt-retaining and releasing element movable within said shell at right angles to the movement of the bolt, and having a finger-piece or manipulating element projecting outside of the said shell.

The present invention has for its principal object to provide a bag frame fastener of the general character hereinafter set forth, and which is neat in appearance, is of a simple construction, the operating parts having been reduced to a minimum, and, furthermore, to provide an effectively operating device, the parts of which may be quickly and easily brought into assembled relation, and readily manipulated for bringing the bolt into its locked or unlocked relation.

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

With the various objects of the present invention in view, the said invention consists, primarily, in the novel bag-frame fastener or catch hereinafter set forth; and, the invention consists, furthermore, in the novel arrangements and combinations of the several 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 clearly illustrated in the accompanying drawings, in which:—

Figure 1 is a top or plan view of the one end-portion of a bag-frame, the hinged frame-sections being represented in their closed relation, one within the other, and equipped with a fastener or catch made according to the principles of the present invention; and Fig. 2 is a front or side elevation of the same. Fig. 3 is a longitudinal vertical section, said section being taken on line 3—3 in said Fig. 1, and said view being made on an enlarged scale and showing the parts of the catch in their locked relation with each other and with the closed frame-sections of the bag-frame; and Fig. 4 is a similar sectional representation of the said parts, with the bolt of the bag-frame fastener or catch represented in its released or unlocked position to permit the frame-sections to be brought into their opened or separated relation. Fig. 5 is a transverse vertical section taken on line 5—5 in said Fig. 2, looking in the direction of the arrow *x;* and Fig. 6 is a bottom view of the bag-frame fastener or catch.

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

In the said drawings, the reference-characters 1 and 2 indicate fragmentary portions of the usual hinged frame-sections of a bag-frame, respectively provided with bolt-receiving openings or slots 3 and 4.

The frame-fastener or catch embodying the principles of the present invention is generally indicated by the reference-character 5, the same comprising a main shell or casing of which 6 is the top-wall, 7 the longitudinally extending side-walls, and 8 the laterally extending end-walls, one of which is provided with a suitable opening, as 9, and all of which provide a suitable chamber in which the operative parts of the fastener-mechanism are suitably arranged. Projecting from the lower marginal edges of the end-walls 8 are suitable fastening lugs 10, which are adapted to be passed through cor-

respondingly placed holes or openings, as 11, in the top of the frame-section 1, and then bent over upon the under surface of the said top for securing the main shell or casing of the bag-frame fastener or catch in its operative position upon said frame-section 1. As shown, the top-wall 6 of the said main shell or casing is also provided with a suitably disposed opening, as 12, and preferably of rectangular elongated configuration, in which is movably disposed a correspondingly shaped block-like element 13 forming the push-piece of a bolt-element or member 14, which extends vertically in a downward direction from the said block-like element 13, and is adapted to extend also into the bolt-receiving openings or slots 3 and 4 in the respective frame-sections 1 and 2, in the manner illustrated in said Figs. 3, 4 and 5 of the drawings, and for the purposes to be presently more fully set forth. Within the lower open portion of the said main shell or casing of the bag-frame fastener or catch is a closing bottom plate 15 in which is also formed a bolt-receiving opening or slot 16, corresponding to the slots 3 and 4, and into which the said bolt 14 also projects, as shown. Extending longitudinally of the main shell or casing, from the marginal edge 17 of the said bolt 14, and at the proper point, is a suitably formed stop-lug 18, the upper surface 19 of which is straight and forms with the lower surface-portion of the block-like element or push-piece 13 a receiving recess, as 20. The lower surface-portion 21 of said stop-lug 18 tapers, or is made arc-shape, substantially as represented in the drawings. Extending in a downward direction from another part of the lower surface portion of said block-like element or push-piece 13 is a stud or projection, as 22, upon which is mounted the upper end-portion of a vertically disposed coiled spring 23, said spring having its lower end resting in a suitably formed depression, as 24, with which the bottom or closing plate 15 is provided, the downwardly bulging portion 25 of the said closing or bottom-plate 15, when the bag-frame fastener or catch is mounted upon the frame-section 1, extending into a suitably disposed open portion 26 in the said frame-section 1, in the manner clearly represented in Figs. 3 and 4 of the drawings. The said bolt-element or member 14 is provided at a point slightly below the lower surface-portion of the block-like element or push-piece 13 with stop-pins or oppositely extending projections, as 26′, which are brought against the inner surface-portions of the top-wall 6 of the shell or casing, contiguous to the opening 12, to thereby prevent displacement of the bolt-like element or member 14, and its block-like member or push-piece 13, from its operative relation within the shell or casing, and the mechanism therein, by the action of the coiled spring 23, as will be clearly evident from an inspection of said Fig. 5 of the drawings.

In order to retain said bolt-like element or member 14 and its block-like member or push-piece in their proper relation to the chambered shell or casing of the bag-frame fastener or catch, there is arranged within the said shell or casing a slidable bolt-engaging means in the form of a flat keeper-plate 27, said plate being provided with a downwardly extending supporting member 28, at the one end thereof, and along its longitudinal marginal edge-portions, at or near said end, with upwardly projecting guide-members, as 29. At its other end-portion the said keeper-plate 27 is made with an extension, as 30, of any suitable configuration, said extension extending into and through the opening 9 in one of the end-walls 8 of the shell or casing, to provide a suitable finger-piece, in the form of a push-member. This extension 30, as well as the members 28 and 29, as will be clearly seen from an inspection of Figs. 3, 4 and 5, properly support the keeper-plate 27 in its longitudinally sliding relation within the main shell or casing of the bag-fastener or catch. The said keeper-plate 27 is also provided with studs or lugs, as 31, for the arrangement thereon of the ends of a pair of coiled springs 32, which are suitably compressed between the end of the said keeper-plate 27 and the inner surface of the other end-wall 8 of the shell or casing, so as to force the said plate under normal conditions in a direction indicated by the arrow *y* in said Fig. 3 of the drawings. The said keeper-plate 27 is also provided with an elongated opening, as 33, through which the bolt-like element or member 14 and the spring 23 are passed so as not to interfere with the movements of the assembled devices, the said opening 33 communicating at its one end with a narrow slot-like open portion, as 34, through which the stop-lug 18 of the bolt-like element or member 14 is passed, when depressed from its raised and released position indicated in Fig. 4 to its lowered and locked relation indicated in Figs. 3 and 6, with the straight surface-portion 19 of said stop-lug 18 in retaining engagement with the surface-portion 35 adjacent to said slot-like open portion 34.

The manner of releasing the bolt-like element or member 14, to withdraw the bolt from its locked engagement with the inner frame-section 2, and to permit the frame-sections comprising the bag-frame to be brought into their opened relation, will be clearly understood from an inspection of Fig. 4 of the drawings; and, the manner of locking the two frame-sections, is to simply bring the hinged frame-sections into their closed relation, when the bolt has been re-

leased, as indicated in said Fig. 4, and then by the application, manually, of pressure upon the push-piece 13, the bolt-element or member 14 and the keeper-plate 27 are automatically brought into locked engagement, as indicated in Fig. 3, so that the hinged frame-sections 1 and 2 are also locked in their closed relation, as will be clearly evident. Further description of the movements and operations of the various parts are therefore deemed unnecessary.

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 claim which are appended to the said specification. Hence, I do not limit my present invention to the exact arrangements and combinations of the several 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 fastener comprising a chambered shell, provided in its top with an opening, a vertically movable bolt-member within said shell and a push-piece connected with said bolt-member, said push-piece being movably disposed within said opening so as to be adapted to be projected above the top of said shell, a closing plate within said shell, a spring in engagement with and located between the lower surface of said push-piece and the upper surface of said closing plate, and means coöperating with said bolt-member for retaining said bolt-member in its depressed locking relation.

2. A bag-frame fastener comprising a chambered shell, provided in its top with an opening, a vertically movable bolt-member within said shell and a push-piece connected with said bolt-member, said push-piece being movably disposed within said opening so as to be adapted to be projected above the top of said shell, a closing plate within said shell, said closing plate being provided with a depressed portion forming a receiving pocket, a coiled spring having an end-portion resting within said pocket and having its other end-portion in contact with the lower surface of said push-piece, and means coöperating with said bolt-member for retaining said bolt-member in its depressed locking relation.

3. A bag-frame fastener comprising a chambered shell provided in its top with an opening and in one of its ends with an opening, a vertically movable bolt-member within said shell and a push-piece connected with said bolt-member, said push-piece being movably disposed within the opening in said top so as to be adapted to be projected above the top of said shell, a stop-lug extending from a marginal edge of said bolt-member, a closing plate within said shell, a spring in engagement with and located between the lower surface of said push-piece and the upper surface of said closing plate, a spring-controlled keeper-plate provided with a push-piece extending into and through the opening in the end of said shell, said keeper-plate having an open portion into and through which said bolt-member and said spring extend, said keeper-plate having a portion coöperating with said stop-lug for retaining said bolt-member in its depressed locking relation.

4. A bag-frame fastener comprising a chambered shell provided in its top with an opening and in one of its ends with an opening, a vertically movable bolt-member within said shell and a push-piece connected with said bolt-member, said push-piece being movably disposed within the opening in said top so as to be adapted to be projected above the top of said shell, a stop-lug extending from a marginal edge of said bolt-member, a closing plate within said shell, said closing plate being provided with a depressed portion forming a receiving pocket, a coiled spring having an end-portion in contact with the lower surface of said push-piece, a spring-controlled keeper-plate provided with a push-piece extending into and through the opening in the end of said shell, said keeper-plate having an open portion into and through which said bolt-member and said spring extend, said keeper-plate having a portion coöperating with said stop-lug for retaining said bolt-chamber in its depressed locking relation.

5. A bag-frame fastener comprising a chambered shell provided in its top with an opening and in one of its ends with an opening, a vertically movable bolt-member within said shell and a push-piece connected with said bolt-member, said push-piece being movably disposed within the opening in said top so as to be adapted to be projected above the top of said shell, a stop-lug extending from a marginal edge of said bolt-member, a closing plate within said shell, a spring in engagement with and located between the lower surface of said push-piece and the upper surface of said closing plate, a keeper-plate provided at one end with a push-piece extending into and through the opening in the end of the said shell, lugs extending from the other end of said keeper-plate, coiled springs supported upon said lugs and in engagement with the inner surface of the other end of said shell, a downwardly extending supporting member and upwardly projecting guide-members connected with said keeper-plate, said keeper-

plate having an open portion into and through which said bolt-member and said spring extend, said keeper-plate having a portion coöperating with said stop-lug for retaining said bolt-member in its depressed locking relation.

6. A bag-frame fastener comprising a chambered shell provided in its top with an opening and in one of its its ends with an opening, a vertically movable bolt-member within said shell and a push-piece connected with said bolt-member, said push-piece being movably disposed within the opening in said top so as to be adapted to be projected above the top of said shell, a stop-lug extending from a marginal edge of said bolt-member, a closing plate within said shell, said closing plate being provided with a depressed portion forming a receiving pocket, a coiled spring having an end-portion resting within said pocket and having its other end-portion in contact with the lower surface of said push-piece, a keeper-plate provided at one end with a push-piece extending into and through the opening in the end of the said shell, lugs extending from the other end of said keeper-plate, coiled springs supported upon said lugs and in engagement with the inner surface of the other end of said shell, a downwardly extending supporting member and upwardly projecting guide-members connected with said keeper-plate, said keeper-plate having an open portion into and through which said bolt-member and said spring extend, said keeper-plate having a portion coöperating with said stop-lug for retaining said bolt-member in its depressed locking relation.

In testimony, that I claim the invention set forth above I have hereunto set my hand this 5th day of April, 1915.

JULIUS HAMMESFAHR.

Witnesses:
FREDK. C. FRANTZEL,
FREDK. H. W. FRAENTZEL.

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