Feb. 27, 1923. 1,446,865.

H. TUECKMANTEL.

BAG FRAME FASTENER.

FILED NOV. 2, 1921. 2 SHEETS—SHEET 1.

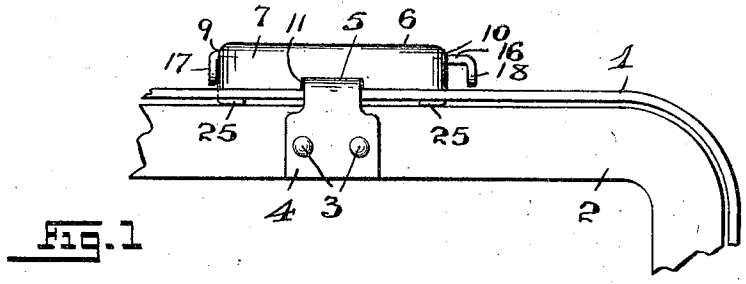


Fig. 1

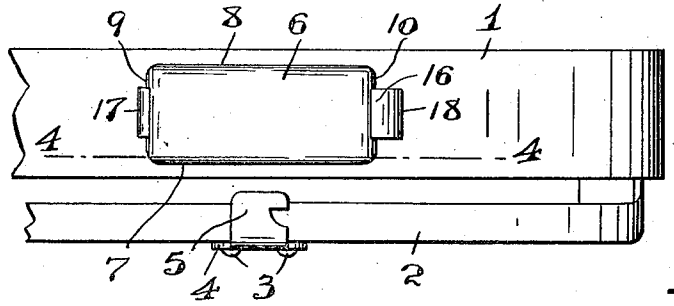
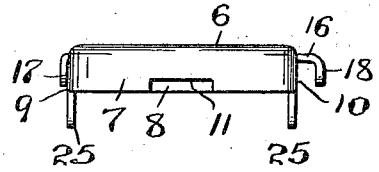


Fig. 2

Fig. 3



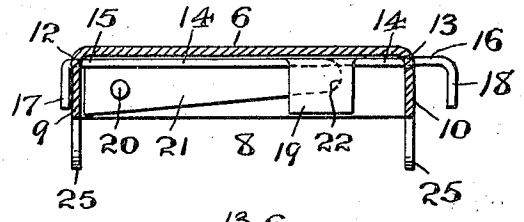
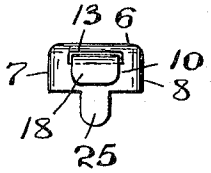


Fig. 4

Fig. 5



INVENTOR:
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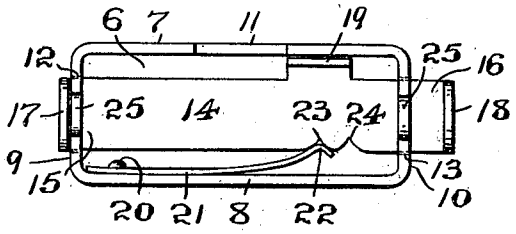
Feb. 27, 1923. 1,446,865.

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BAG FRAME FASTENER.

FILED NOV. 2, 1921. 2 SHEETS—SHEET 2.

Fig. 6



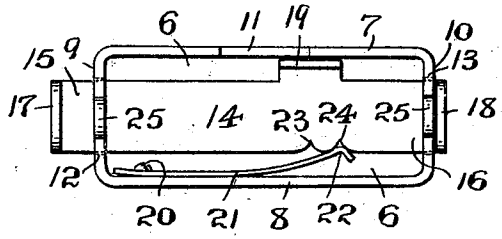
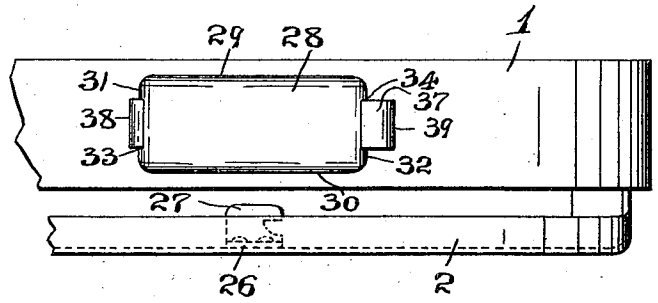


Fig. 7

Fig. 8



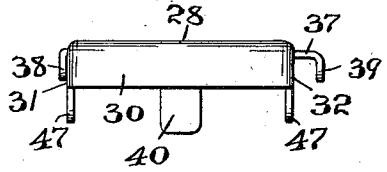
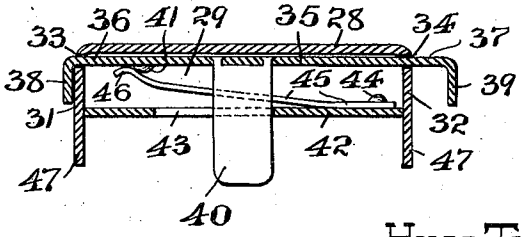


Fig. 9

Fig. 10



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Patented Feb. 27, 1923. 1,446,865

UNITED STATES PATENT OFFICE.

HUGO TUECKMANTEL, OF IRVINGTON, NEW JERSEY, ASSIGNOR TO THE R. NEUMANN HARDWARE CO., A CORPORATION OF NEW JERSEY.

BAG-FRAME FASTENER.

Application filed November 2, 1921. Serial No. 512,166.

To all whom it may concern:

Be it known that I, HUGO TUECKMANTEL, a citizen of the United States, residing at Irvington, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Bag-Frame 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-frame fasteners; and, the present invention has reference, more particularly, to a novel construction of safety latch or lock for the hinged frame-sections of a bag-frame, with a view of providing a simply devised and positively acting construction, the parts of the fastener having been reduced to a minimum, and the parts being arranged so that they 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 fastener comprising a main casing or shell adapted to be secured upon one of the frame-sections; and in which the bolt-mechanism is concealed and is actuated from the ends of the said casing or shell, the top of the casing or shell being entirely closed and devoid of the usual hinged bolt-carrying plate, or the usual bolt-operating slide-member, so that a plain and unobstructed, as well as a sightly upper surface of the said casing or shell is provided; and, furthermore, to provide a fastener-mechanism of the general character hereinafter set forth, the parts of which can be brought into their opened or closed relation, in either case, with a positive snap.

Other objects of the present invention not at this time more particularly enumerated will be clearly understood from the following detail 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 hereinafter more fully set forth; and, the invention consists, furthermore, in the novel arrangements and combinations of the 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 claims, 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 front elevation of portions of two hinged frame-sections of a bag-frame, one of said frame-sections showing in elevation and connected therewith one form of hasp, and the other frame-section showing in elevation and connected therewith, a bag-frame fastener made according to and embodying the principles of the present invention; and Figure 2 is a plan view of the various devices illustrated in said Figure 1, the various parts being represented in their opened or separated relation.

Figure 3 is a front elevation of the bag-frame fastener, detached from the frame-section; and Figure 4 is a longitudinal vertical section of the fastener, also detached from the frame-section, said section being represented as being taken on line 4—4 in said Figure 2, and said view being made on an enlarged scale.

Figure 5 is an elevation of either end of the bag-frame fastener; Figure 6 is a bottom view of the same, with the hasp-engaging mechanism represented in its position when disengaged from the hasp; and Figure 7 is a similar view of the bag-frame fastener, with the hasp-engaging mechanism represented in the position when in engagement with the hasp, the hasp, however, in both said last-mentioned views, being omitted from said views.

Figure 8 is a view, similar to Figure 2, one of the frame-sections being provided with a different arrangement of hasp, and the other frame-section being provided with a slightly modified construction of bag-frame fastener adapted for engagement with this form of hasp.

Figure 9 is a front elevation of the bag-frame fastener illustrated in said Figure 8, and shown detached from the frame-section; and Figure 10 is a central longitudinal vertical section of the said bag-frame fastener,

detached from the frame-section, and said view being made on an enlarged scale, with the mechanism of said fastener shown in its position when disconnected with the hasp.

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

Referring now to Figures 1 to 7 inclusive, the reference-characters 1 and 2 indicate fragmentary portions of any usual bag-frame-sections, to the outer face of one of which, as 2, is suitably secured by means of rivets 3, or otherwise, a hasp-plate 4 which is provided with the angularly disposed and notched member 5, adapted to be moved over and above the frame-section 1 and enter the shell or casing of the bag-frame fastener for engagement with the hasp-engaging mechanism within said shell or casing, in the manner to be presently more fully described.

The form of bag-frame fastener shown more particularly in said Figures 1 to 7 inclusive, consists, essentially, of a main shell or casing comprising a flat top 6, a pair of longitudinally extending side-walls 7 and 8, and a pair of end-walls 9 and 10, one of said side-walls, as 7, being formed with a suitably disposed opening, as 11, and the end-walls 9 and 10 being respectively provided with suitably located guiding openings or slits, as 12 and 13, and as indicated in dotted outline in said Figures 6 and 7 of the drawings.

The reference-character 14 indicates a suitably shaped slide-plate longitudinally disposed within the chamber of the said shell or casing, the said plate having its respective end-portions 15 and 16 extending into and through the respective guiding openings or slits 12 and 13, the projecting parts of said end-portions 15 and 16 being respectively provided with angular members, as 17 and 18, which provide suitable push-members or finger-pieces, as will be clearly evident. At one of its longitudinally extending edges, adjacent to the opening 11 of the side-wall 7 of said shell or casing, the plate 14 is provided with a downwardly extending post, as 19, adapted to be moved into holding or retaining engagement with the notched member 5 of the hasp-plate 4, when said member 5 enters said opening 11 during the closing operation of the two frame-sections 1 and 2.

Suitably secured to the inner surface of the other side-wall 8 of the said shell or casing, by means of a rivet 20, or otherwise, is a suitably curved spring-plate or arm 21, having its free end-portion extending toward the other longitudinally extending edge of the plate 14, said end-portion of the spring-plate or arm 21 being made with a suitably bent and preferably V-shaped part 22 adapted for holding or locking engagement with a pair of V-shaped or other suitably shaped receiving notches 23 and 24 with which the said edge of the plate 14 is provided, as will be clearly evident from an inspection of Figures 6 and 7 of the drawings. One means for securing the bag-frame fastener in its operative position upon the outer and upper face of the frame-section 1 is in the form of the usual fastening lugs or tongues 25 which extend from the marginal edge-portions of the end-walls 9 and 10, and which are inserted through suitably disposed slits in the frame-section 1 and are then bent over and secured against the lower and inner face-portion of said frame-section 1, as shown in Figure 1 of the drawings.

Other means for securing the shell or casing to the frame-section 1 may, however, be employed, if desired.

From the foregoing description of the device it will be seen that I have devised a very simple construction of bag-frame fastener, the operation of which will be readily understood from an inspection of the several figures of the drawings.

Briefly, this operation is as follows:—

When the parts of the fastener are in the positions indicated in Figure 6, the notched-member 5 of the hasp-plate 4 attached to the opened frame-section 2, see Figure 2, can be made to readily enter the opening 11 in the side-wall 7 of the bag-frame fastener, thus being brought into position for holding or retaining engagement with the edge of the post 19 of the slide-plate 14, as shown in Figure 7 of the drawings. This is accomplished by pressing upon the push-member or fingerpiece 18 in the direction toward the end-wall 10, thereby forcing the engaging member 22 of the spring-plate or arm 21 out of its retaining engagement with the receiving notch 23, shown in Figure 6, and causing said member 22 to forcibly spring, and with a perceptible snap, into holding or retaining engagement with the receiving notch 24, so as to maintain the holding or locked engagement of the said post 19 with the notched member 5 of the hasp-plate, and retaining the two frame-sections 1 and 2 in their closed relation, as will be evident.

When it is desired to open or separate the frame-sections, pressure is applied upon the other push-member or finger-piece 17, so as to move it toward the end-wall 9, whereby the engaging member 22 of the spring-plate or arm 21 is forced out of its retaining engagement with the receiving notch 24, shown in said Figure 7, to be forcibly sprung with a snap into its holding or retaining engagement with the notch 23. The movement of the plate 14 having disengaged the post 19 from the notched member 5 of the hasp-plate 4, the hinged frame-sections 1 and 2 can be again brought into their opened or separated relation.

When the frame-section 2 is provided with a hasp-plate 26 secured to the inner face of

the vertical member of said frame-section, as indicated in Figure 8 of the drawings, and is provided with a notched post-engaging member 27 which is adapted to be moved beneath the frame-section 1, I prefer to employ a bag-frame fastener of the general construction shown in Figures 8, 9 and 10 of the drawings, said fastener, however, embodying the principles of the present invention.

The shell or casing in this form of bag-frame fastener comprises a flat top 28, a pair of longitudinally extending side-walls 29 and 30, neither of which is provided with openings, and a pair of end-walls 31 and 32 respectively provided with suitably disposed guiding openings or slits, as 33 and 34, similar to the openings 12 and 13 of the fastener shown in Figures 1 to 7 inclusive, and used in the same manner.

The reference-character 35 indicates a suitably shaped slide-plate longitudinally disposed within the chamber of this form of shell or casing, the said plate having its respective end-portions 36 and 37 extending into and through the respective guiding openings or slits 33 and 34, the projecting parts of said end-portions 36 and 37 being respectively provided with angular members, as 38 and 39, which provide suitable push-members or finger-pieces, similar to those previously described. As shown, the said slide-plate 35 is provided with a centrally disposed and downwardly projecting post 40, of sufficient length so that the post projects below the open part of the shell or casing, substantially as shown in Figures 9 and 10 of the drawings, the said plate 35 being also provided at one end thereof, and preferably to one side of the plate, with a downwardly extending projection, lug or button, as 41.

Suitably disposed within the chambered portion of said shell or casing is a plate, as 42, formed with a centrally disposed elongated opening or slit 43 into and through which the said post 40 projects and is movably disposed therein, as will be evident from an inspection of said Figure 10 of the drawings.

Secured at one end of the said plate 42, by means of a rivet 44, or otherwise, is an upwardly extending spring-plate or arm 45 having its free end-portion extending toward the said projection, lug or button 41, and having said end-portion suitably bent so as to provide an engaging member, as 46, which is adapted to be slid back and forth over the said projection, lug or button 41, to retain the said slide-plate 42 in either of its operated positions, as will be clearly evident. To secure this form of bag-frame fastener upon the upper and outer surface of the frame-section 1, fastening lugs or tongues 47 are provided, which extend from the marginal edge-portions of the end-walls 31 and 32 of the shell or casing, and are adapted to be inserted through suitably disposed slits in the frame-section 1 and are then bent over and secured against the lower and inner face-portion of the frame-section, in the usual manner. The downwardly extending portion of the previously mentioned post 40 which projects into and through the opening or slit 43 of the plate 42 also extends into and through a correspondingly located slit in the frame-section 1, in which the said post 40 is adapted to slide back and forth, while projecting below the frame-section 1, so as to be moved into and out of holding or retaining engagement with the notched post-engaging member 27 of the hasp-plate 26 by the proper manipulation of the spring-controlled slide-plate, as will be clearly understood from an inspection of said Figures 8, 9 and 10 of the drawings.

Of course I am aware that the device is capable of other changes in the general arrangements and combination of the devices and parts, as well as in the details of the construction of the same, 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 thereto. Hence, I do not limit my present invention to the exact arrangements and combinations of the said 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 having an unobstructed and non-perforated top, longitudinally extending side-walls, and end-walls, said end-walls being provided with guiding openings, a reciprocatory slide-plate within said chambered shell, said slide-plate having its respective end-portions projecting into and from the respective guiding openings in said end-walls, a fingerpiece connected with each projecting end-portion of said slide-plate, said slide-plate being provided in one of its longitudinal edges with receiving notches, a spring-plate secured within said shell, said spring-plate being formed with an engaging member adapted to enter into retaining engagement with either of said receiving notches, and means connected with said slide-plate for engagement with a hasp.

2. A bag-frame fastener comprising a chambered shell having an unobstructed and non-perforated top, longitudinally extending side-walls, one of said side-walls having a hasp-member receiving opening, and end-walls, said end-walls being provided with guiding openings, a reciprocatory and spring-controlled slide-plate within said chambered shell, said slide-plate having its

respective end-portions projecting into and from the respective guiding openings in said end-walls, a fingerpiece connected with each projecting end-portion of said slide-plate, and a hasp-member engaging post extending downwardly from said slide-plate and movable with said plate past the opening in said longitudinally extending side-wall of the chambered shell.

3. A bag-frame fastener comprising a chambered shell having an unobstructed and non-perforated top, longitudinally extending side-walls, one of said side-walls having a hasp-member receiving opening, and end-walls, said end-walls being provided with guiding openings, a reciprocatory slide-plate within said chambered shell, said slide-plate having its respective end-portions projecting into and from the respective guiding openings in said end-walls, a fingerpiece connected with each projecting end-portion of said slide-plate, said slide-plate being provided in one of its longitudinal edges with receiving notches, a spring-member secured within said shell having an engaging member adapted to enter into retaining engagement with either of said receiving notches, and a hasp-member engaging post extending downwardly from said slide-plate and movable with said plate past the opening in said longitudinal extending side-wall of the chambered shell.

In testimony that I claim the invention set forth above I have hereunto set my hand this 28th day of October, 1921.

HUGO TUECKMANTEL.

Witnesses:
FRED'K C. FRAENTZEL,
EVA E. DESCH.