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H. LEBERMAN

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FASTENING DEVICE FOR BAGS

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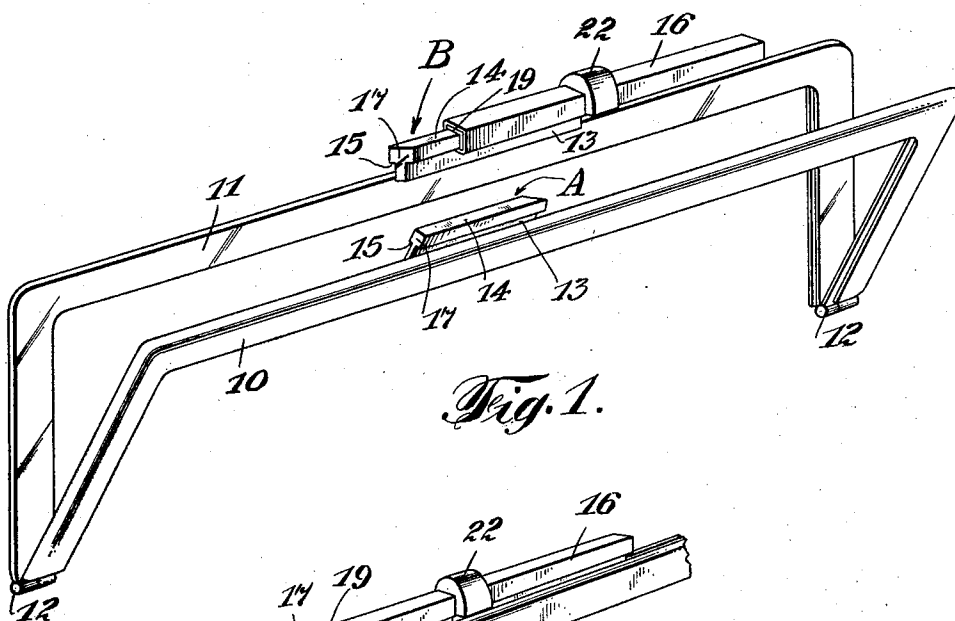


Fig. 1.

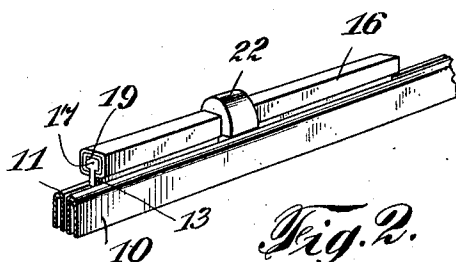


Fig. 2.

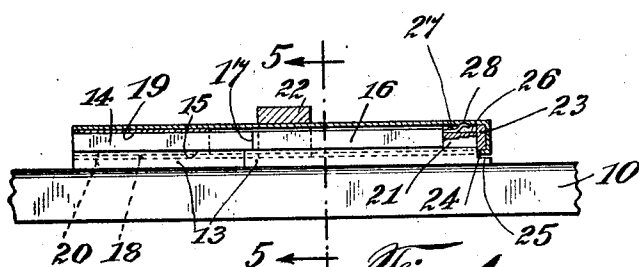


Fig. 4.

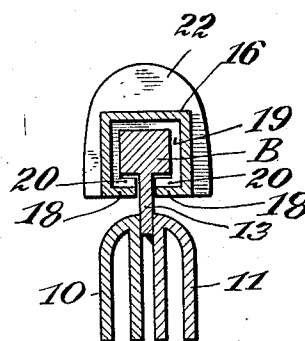


Fig. 5.

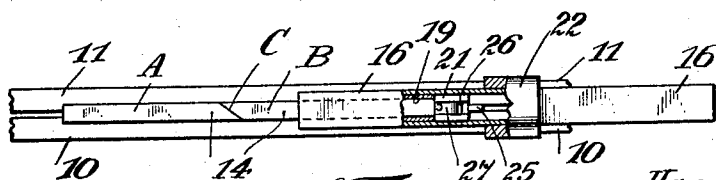


Fig. 3.

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UNITED STATES PATENT OFFICE

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FASTENING DEVICE FOR BAGS

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My present invention relates to frames for hand and other types of bags, and has more particular reference to an improved fastening means whereby readily and in a convenient manner to secure the frames together and to release the same.

An object of the invention is to provide improved fastening means for bag frames of the character in which a pair of opposing frames or jaws are pivotally connected together so as to be swung toward and away from each other in closing and opening the bag, the improvements relating more particularly to the provision upon each of the opposing frames of an upstanding head rail adapted for seizure by the fingers to facilitate closing and opening of the bag, said rails being arranged upon the frames and with respect to each other so as to come into true lengthwise alignment when the frames are closed, and the ends of the rails where they come together being cut obliquely to provide a lap joint and establish a true adjoining alignment for easy and unobstructed travel of the locking slide from one head rail to the other.

Another object of the invention is to provide in fastening means of the foregoing character a relatively long slide, easy to seize and manipulate, and one which adds to the attractiveness of the construction and which lends itself readily to ornamentation. This relatively long locking slide, when moved into locking position, embraces both of the longitudinally aligned head rails as well as the lap rail joint formed therebetween and thereby effectively maintains the frames in closed relation throughout their lengths.

Another feature of the present invention is the provision of an efficient fastening device which surmounts the frames and which admits of the use of frames of channel construction so that the frames with the fastening device thereon may be applied to bags of various types and of various materials

without changing the general frame structure and arrangement.

Other objects and aspects of the invention will appear hereinafter.

The invention resides in the improved fastening device and in the form, construction, and relative arrangement of parts, as will be hereinafter more fully described and claimed.

The invention will best be understood by referring to the accompanying drawing, forming a material part of this application, and in which:—

Figure 1 is a perspective view of a pair of bag frames in open position and showing a fastening device applied thereto, and constructed according to the present invention;

Fig. 2 is a fragmentary view showing the frames secured together in closed position by the fastening device;

Fig. 3 is a fragmentary top plan view showing the frames in closed position, but with the slide in unlocked position and partly in section;

Fig. 4 is a fragmentary elevational view, showing the frames locked together in closed relation, the slide being illustrated in longitudinal section; and

Fig. 5 is a cross section on a larger scale, taken on the line 5—5 of Fig. 4.

Referring with more particularity to the parts illustrated in the accompanying drawing, the numerals 10 and 11 denote frame members or jaws, the down-turned arms of which are connected by pivot pins 12 so as to provide for closing and opening movement in the usual way. Each frame member comprises a U-shaped body portion, the same being constructed of channel shape with the channel opening facing inwardly for receiving the edge of the bag material at the top of the bag, all in a manner well understood in the art.

In accordance with the preferred form of construction as illustrated in the drawing, the frame members 10 and 11 have united

therewith upstanding rails A and B, respectively, and so positioned upon the frames with respect to each other that they will come into direct lengthwise alignment when the frames are in closed position. In the present exemplification, the rails are united with the frames so that they partly overhang the planes of the inner surfaces of the frames. The rails are of T-shaped form in cross section, having webs 13 and heads 14 which form with the webs, on either side thereof, substantially square underneath shoulders 15. The webs 13 of the respective rails correspond in height and thickness, and the heads thereof also correspond in height and thickness; so that when the frames are in closed position, the top surfaces of the rail heads will be in flush relation, and further that the sides of the respective heads and the sides of the respective webs will be flush, this construction being provided in order to enable easy and unobstructed shifting of a locking slide 16 from one rail to the other.

According to an important feature of my improvements, the adjacent ends of the rails A and B are oppositely beveled or tapered at 17 relatively to each other in order to provide a lap rail joint C, as best shown in Fig. 3, when the frames are in closed position. The locking slide 16 is of box-like form in cross section, its lower or bottom portion consisting of flanges 18 adapted to have sliding fit along the opposite sides of the rail webs, as best shown in Fig. 5. The locking slide 16 is represented in the present instance as being mounted upon the rail B so that when the frames are closed, it can be shifted into and out of locking position upon the lengthwise aligned rail A. Preferably as shown, said slide 16 is of a length substantially equal to the combined lengths of the rails A and B. In its portion adjacent to the rail A, the slide is provided with an interior box-like layer or bearing 19 which is adapted to have snug sliding fit upon the heads of the rails, the bottom or lower portion of this box-like layer or bearing consisting of flanges 20 adapted to have intimate sliding fit with the shoulders 15 of the rails. This inner layer or bearing 19 is united with the slide to move therewith. The rail B at its remote or outer end is provided with a fixed enlargement or bearing 21 whereon the slide 16 has sliding fit, the said bearing part 21 being of a dimension in thickness equal to the thickness of the layer or bearing part 19. In this way, through the provision of the bearing part 19 fixed to the interior of the slide and through the provision of the bearing part 21 fixed to the remote end of the rail B and whereon the slide 16 is in direct engagement for shifting movement, I provide a construction whereby upon the closing of the frame members the slide can be easily shifted from its position upon the rail

B as shown in Fig. 1 to its locking position upon the rail A, as shown in Fig. 2. The slide, for convenience in moving it, is provided intermediate its length with an enlarged portion or button 22 adapted to be grasped by the fingers. This button also comprises an ornamental feature, adding grace and balance to the appearance of the construction; and, manifestly, both the button 22 and the slide itself may be suitably embellished as desired.

The bearing part 21 upon the rail B serves as a stop for engagement by the layer or bearing part 19 whereby to prevent the removal in one direction of the slide 16 from the rail B. To limit the movement of the slide in the opposite direction or to the left, the right-hand end of the slide has secured thereto a cross piece 23 over which the material of the slide is bent or shaped to provide a closed end having an underneath flange 24. A suitable notch 25 is provided in the rail B for accommodating the parts 23 and 24, so that when the frames are closed and when the slide is shifted into locking position, the rails A and B and the slide will in appearance be of equal length.

Any suitable means may be provided for maintaining the slide in its locked position. In the present instance I have shown within a recess 26 in the bearing part 21, a spring member 27 which resiliently bears upon the inner face of the slide 16 and is adapted, when the slide is moved into its locking position, as shown in Fig. 4, to enter into a notch or recess 28 provided in the under face of the top wall of said slide. Said spring 27, which serves as a resilient detent, is automatically thrust aside and out of the notch 28 as the slide is moved towards the right or from its locking position.

In the use and application of the bag frame the frame members 10 and 11 are secured in the usual manner to the top or upper free edge portions of a bag of cloth, leather, metal or any other material or combinations thereof; and the frame members 10 and 11 swing upon their pivots or hinges 12 in the usual manner of opening and closing the bag. When the bag is to be closed the slide 16 is first shifted into the position shown in Fig. 1. Thereupon the members 10 and 11 are swung into closed relation bringing the rails A and B into direct lengthwise alignment with the obliquely beveled portions overlapping in a lap joint relation. The slide is then shifted to the left until the shifting movement thereof is automatically determined by the engagement of the bearing part 19 with the bearing part 21, in which condition the frames will be securely held in closed and locked position.

While the invention has been illustrated and described with some degree of particularity, it is realized that in practice various

changes and alterations may be made therein, to which changes and alterations I am entitled, provided the same are made within the scope of the appended claims.

5 I claim:—

1. A fastening device for bags, comprising a pair of pivotally connected frame members, rails provided on the frames in positions in which they will come into direct adjoining lengthwise alignment when the frames are in closed relation, an oblique end provided on each rail to lap one over the other when the rails lie in alignment, and an exterior box like locking slide on one rail shiftable into position thereon to interlock with the other rail and across the lapped ends, said slide being of a length sufficient to encompass said lapped ends and substantial portions of the adjoining lengthwise related rails.

2. A pair of pivotally connected frames, the tops of which have portions formed for direct adjoining lengthwise alignment when the frames are closed, a diagonal end portion provided on each top portion in the plane thereof to overlap one diagonal portion over the other when the top portions lie in lengthwise alignment, and means for locking both top portions together in aligned relation, said means comprising an elongated box-like slide shiftable exteriorly upon the top portions and having a length sufficient to encompass the lapped ends and substantial reaches of the adjoining lengthwise related rails.

3. A fastening device for bags, comprising a pair of pivotally connected frame members, upstanding rails on said members, positioned thereon to come into direct adjoining lengthwise alignment when the frame members are closed, said rails being of equal height and thickness, and an elongated box-like locking slide embracing one rail and slidable thereon to embrace the other rail to afford and maintain an engagement with and between the two rails for locking them together in lengthwise aligned relation.

4. A fastening device for bags, comprising a pair of pivotally connected frame members, upstanding rails on said members, positioned thereon to come into direct adjoining lengthwise alignment when the frame members are closed, a slide, a bearing in the slide capable of embracing the rails and shiftable from one rail to the other to connect and release the rails by the slide, and a bearing on one rail for the slide, located opposite said slide bearing and adapted to serve as a stop for the latter to limit the movement of the slide in one direction.

5. A fastening device for bags, comprising a pair of pivotally connected frame members, upstanding rails on said members and headed, said rails being positioned on the frame members so as to come into direct adjoining lengthwise alignment and locate their

heads in direct adjoining lengthwise alignment when the frame members are closed, and a box-like locking slide embracing the heads of the rails, shiftable from one head to the other and of a length to simultaneously embrace substantial portions of the adjoining heads whereby to connect and release the rails by the slide.

In testimony that I claim the foregoing as my invention, I have signed my name hereto.

HARRY LEBERMAN.

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