R. A. TEEL.

BAG SECURING DEVICE.

APPLICATION FILED MAY 4, 1917.

1,318,933.

Patented Oct. 14, 1919.

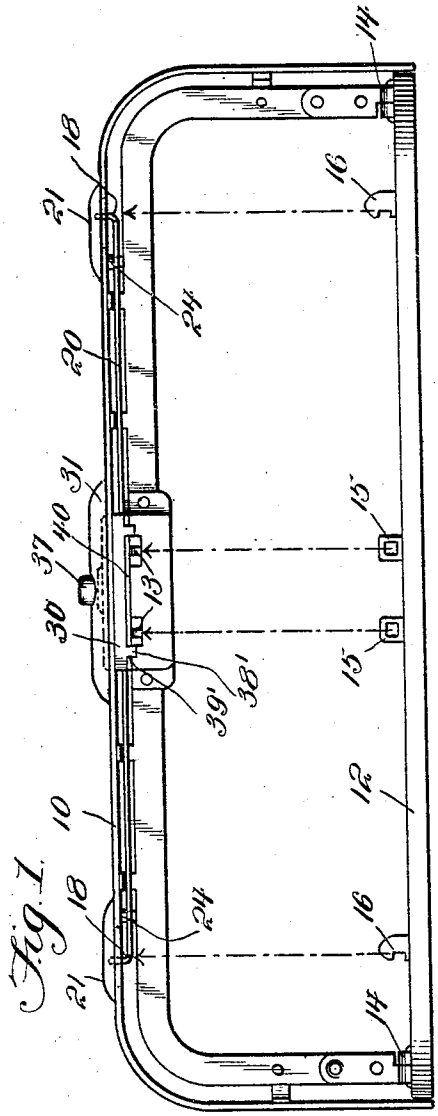


Fig. 1.

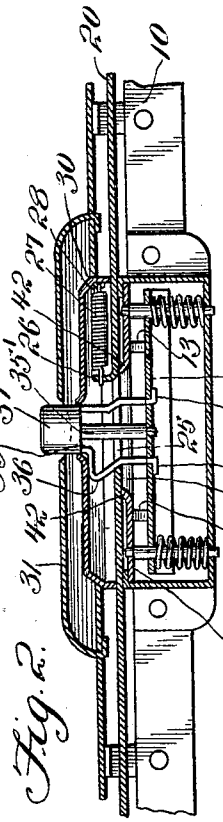


Fig. 2.

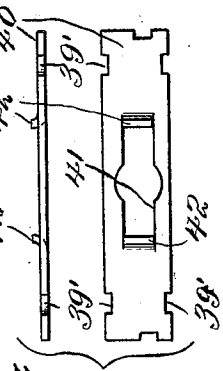


Fig. 4.

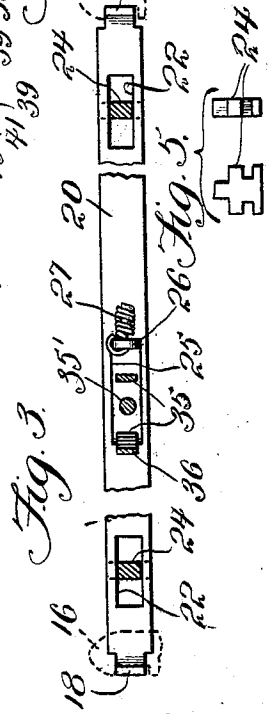


Fig. 3.

Fig. 5.

WITNESSES

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BAG-SECURING DEVICE.

1,318,933. Specification of Letters Patent. Patented Oct. 14, 1919.

Application filed May 4, 1917. Serial No. 166,428.

To all whom it may concern:

Be it known that I, RAYMOND A. TEEL, a citizen of the United States, residing at Bangor, in the county of Northampton and State of Pennsylvania, have invented new and useful Improvements in Bag-Securing Devices, of which the following is a specification.

This invention relates to bag securing devices and the object is to provide novel means operable in connection with a push button securing device for shifting a latching bar which will control end latches on the frame members of a traveling bag.

In the accompanying drawing, forming part of this specification:—

Figure 1 is an elevation showing the frame members of a bag in open position, and the sliding latch bar mounted beneath one of the flanges of the frame.

Fig. 2 is a view partly in vertical section showing the means for operating the sliding bar.

Figs. 3, 4, 5 are details of construction described below.

The bag is provided with the usual frame members 10 and 12 hinged at 14, member 12 being provided with eye members 15 adapted to be engaged by devices described below and is also provided with end hooks 16 located as shown in the drawings. Members 15 are secured by engaging devices 13.

End hooks 16 are engaged by upstanding members 18 formed on the ends of a latching bar 20 and this bar is designed to be reciprocated for the purpose of withdrawing members 18 from hooks 16 when it is desired to release these elements. Upwardly extending members 18 project through slots formed in the frame and are protected by concave metallic members 21. Bar 20 is provided near each end with a slot 22 and is engaged by a rivet 24 having a head formed as shown and constituting a guiding member. The central portion of bar 20 is provided with a slot 25 through which a device for operating the bar projects. At one end of the slot an upstanding member 26 is shown and this member has connection with a spring 27 secured at 28 to the casing 30. This casing projects slightly above the frame member 10 and may be covered by a protecting plate 31.

Latching bar 20 is operated by means of a member 35 comprising a plurality of prongs, one of which is offset at 36 forming a wedge-like member which engages the wall of slot 25. The slot is of such length that a suitable amount of play is provided. Operating member 35 including the prongs mentioned is pressed downwardly by means of a push button 37, and it may be added that the lower ends of these prongs pass through plate 38 and are bent over as shown at 39. The casing 30 is provided with ears 38′ at its lower portion and these ears engage the notches 39′ of plate 40. This plate is provided with a central slot 41 having at the ends thereof lugs 42 which serve as bearing members for the latching bar.

Among the important features of this construction may be mentioned the anchorage secured at the ends of the frame-members 10 and 12, by means of the upwardly projecting devices passing through the frame and engaging the hooks on the opposite frame member. Further, the particular means for shifting the latching bar 20 are regarded as of importance. When the central locking devices are in engagement the end catches are likewise locked, being inclosed in the manner stated, and not accessible from the outside. A compensating action is provided which will allow the latching bar to secure the end catches independently of the central lock, since the slot 25 in the bar is large enough to permit said bar to be shifted when the catches 16 first come into engagement. This point is of especial advantage when the bag is overloaded and the frame members do not lie exactly parallel throughout their entire length during the closing action. However, either the end catches 16, or the catches 15, may be first engaged according to circumstances. The one piece latching bar is likewise an important element in the construction, and the specially formed rivet 24 for guiding the bar.

In order to state concisely the operation, it may be added that in closing the bag the catches 16 will engage the elements 18, in view of the manner of mounting the parts above described, permitting the independent movement of bar 20, with reference to the device 35 for operating the bar, and with reference to catches 13 at the center. Catches 13 and 16 may engage at the same time, or separately, as above described. In opening the bag, pressure on push button 37 will cause engagement between operating member 35 and the edge of the slot 25 in bar 20. At this time, plate 38 will move down-

wardly against the tension of the springs retaining the latter, and the plate 20 will be moved longitudinally against the tension of spring 27, thereby freeing the catches at the ends of the bag. The catches 13 are freed when they are moved downwardly with plate 38. In the longitudinal movement of bar 20, the latter slides on upstanding members 42, being guided by rivets 24 of the form shown in Fig. 5.

What is claimed, is:—

1. In a device of the class described, a plurality of frame members for a bag, engaging devices on one of said members, a sliding latching bar mounted on the other of said members, said bar being provided with a central slot, a casing having projections on the walls thereof, and through which the bar passes, a plate member having notched sides engaged by the projections on the walls of the casing and having projecting guiding members for the bar, a spring secured to the casing and to the bar, a member having a lateral offset passing through the central slot of the bar and operating the latter by contact with the edge of the slot, a push button for operating the offset member, engaging members on the ends of the bar for securing certain of the engaging members first mentioned, guiding studs for the bar, said studs being secured to one of the frame members, said devices on the ends of the bar projecting upwardly through the adjacent frame member, and a cover member for each of the projecting ends.

2. In a device of the class described, a plurality of frame members, engaging devices on one of said members, a sliding latching bar mounted on the other of said members and provided with a central slot, guiding means for the bar, means for supporting the bar at the lower side and a tapering member freely engaging the walls of the slot for operating the bar, a casing through which the central portion of the bar passes, said casing inclosing the tapering member, and resilient means connected with the casing and with the bar for returning the latter to normal position when operated, the said tapering member being resiliently mounted independently of the bar.

3. In a device of the class described, a plurality of frame members for a bag, engaging devices on one of said members, a sliding latching bar on the other of said members, said bar having a central slot, means for guiding the bar, means for supporting the bar, a member comprising a vertically movable and resiliently mounted plate and a member carried thereby having a lateral offset projecting through the bar and engaging the walls of the slot, said walls being normally spaced from the offset member.

In testimony whereof I affix my signature.

RAYMOND A. TEEL.

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