

engageable with a socket member in the other slider having a lock pin operatively associated with a latch or lock tumbler and engageable with the plug member for locking the two sliders together which can be unlocked or separated by the use of a change key.

With a slide fastener used on a bag or suitcase in transit, it is not always necessary to lock its sliders but it is rather preferred to keep the sliders coupled together without being fully locked. The aforementioned prior art slider lock is not suitable for such application because the two sliders become automatically locked immediately they are interengaged. If the sliders were drawn towards each other closely but halfway of their locking position, they would tend to move out of place to inadvertently open the fastener.

The present invention seeks to provide a slide fastener which has a slider easily engageable with and disengageable from a top end stop.

The present invention further seeks to provide a slide fastener having a latch means incorporated either in a slider or in a top end stop, the latch having a "provisional" and a "complete" lock function.

The present invention further seeks to provide a slide fastener produced from a continuous fastener chain carrying a plurality of alternate sliders and top end stops which are movable on and attachable where desired to the fastener chain.

A slide fastener satisfying these requirements is characterized in the appended claim.

The above other objects of the invention will appear clearly from the following detailed description taken in conjunction with the accompanying drawings which illustrate by way of example some preferred embodiments.

In the drawings in which like reference numerals

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Figure 10 is a view similar to Figure 9 showing the slider and the top end stop in a locked position;

Figure 11 is a side elevational view of a modified form of lock means;

Figure 12 is a perspective view of the locking means of Figure 11;

Figure 13 is a side elevational view of the locking means of Figure 12 in an unlocked disposition;

Figure 14 is a view similar to Figure 13 showing the locking means in locked position;

Figure 15 is a diagrammatic plan view of a finished slide fastener chain assembly on a garment fabric;

Figure 16 is a view similar to Figure 15 showing a slide fastener finished with a top end stop according to the present invention;

Figure 17 is a diagrammatic plan view of a bag to which the slide fastener of the present invention is applied.

Referring now to the drawings of Figure 1 in particular, there is shown a slide fastener embodying the present invention which includes a pair of stringer tapes 11 and 12 each carrying a series of coupling elements 13, a slider 14 movable along the coupling elements 13, and a top end stop 15 similarly reciprocally movable along the coupling elements 13 and secured in place on one end of the stringer tape 11 limiting thereat the movement of the slider 14.

The slider 14 has an upper wing 17 joined together at one of the ends thereof with a lower wing 18. The upper wing 17 is provided with a series of locking means 19 which are engageable with the coupling elements 13 of the stringer tape 12 to lock the slider 14 in a desired position relative to the stringer tape 12. The lower wing 18 is provided with a series of locking means 20 which are engageable with the coupling elements 13 of the stringer tape 11 to lock the slider 14 in a desired position relative to the stringer tape 11.

The locking means 19 and 20 are each in the form of a hook-shaped member having a curved end 21 adapted to engage the coupling elements 13 of the stringer tapes 11 and 12. The locking means 19 and 20 are each provided with a series of locking means 22 which are engageable with the coupling elements 13 of the stringer tapes 11 and 12 to lock the slider 14 in a desired position relative to the stringer tapes 11 and 12.

24b extending integrally from the upper wing 21 and the lower wing 22 respectively and forwardly of the neck 23. The upper and lower extensions 24a and 24b are in spaced parallel relation to each other, defining therebetween a guide opening 24c for receiving the wing extension 20 of the slider 14. The upper wing extension 24a has an aperture 24d communicating with the guide opening 24c.

The neck 23 of the top end stop 15 has a downwardly canted front end surface 23a disposed in the opening 24c. For face-to-face engagement with the canted cam surface 20f of the slider wing extension 20.

Designated at 25 is a casing encompassing and attached to the upper wing 21 of the top end stop 15.

A lock tumbler or latch 26 is pivotally mounted through the aperture 24d in the casing 25 to enter into and retract from the guide opening 24c in the casing 25 of the top end stop 15. More specifically, the tumbler 26 has an integral transverse pin 27 received in vertically elongated guide slots 28 formed in opposite side walls of the casing 25, as better shown in Figure 5, so that the tumbler 26 can rotate and move vertically linearly as well along the guide slots 28. The lock tumbler 26 is provided at one end with an integral lock prong 29 shaped in conformity with and hence engageable with the lock cavity 20c of the slider 14 with a tight fit in a manner hereafter to be described. At the other end of the tumbler 26 is an integral abutment 30.

The lock tumbler 26 is normally urged downwardly toward the guide opening 24c by means of a first compression spring 31 supported vertically in place within the casing 25 as shown in Figure 3.

A slide bracket 32 has integral vertical ribs 32a and 32b protruding upwardly from opposite ends

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strength of the first spring 31 in a manner already described.

Rotating the first dial 36 and/or the second dial 37 away from the above "unlock" position will shift their respective notches 36a, 37b out of registry or alignment with the bracket rib 32b and thereby bring the slider 14 into "complete lock" engagement with the top end stop 15, in which position the lock prong 19 is not rotatable but retained in locked engagement with the lock cavity 20c of the slider wing extension 20, prohibiting separation of the slider 14 from the top end stop 15. Since the lock tumbler 26 is vertically movable, the slider 14 and the top end stop 15 can be readily coupled by thrusting the slider wing extension 20 into the guide opening 24c and locked together immediately upon fitting engagement of the lock prong 29 with the lock cavity 20c.

Figures 11 - 14, inclusive, show a modified form of the lock device incorporated in the top end stop 15, in which there is provided a key-operated lock device in place of the dial device 35 which has been already described. The key-operated lock device 100 is shown, including a portion of the slider wing extension 110 which is provided in its upper surface with a relatively shallow, arcuately shaped lock cavity 110a corresponding to the lock cavity 20c, the remaining structural details of the slider 14 being identical to those already described and hence omitted.

A tumbler 200 is in the form of a lock roller 210 rotatably connected to one end of a first bracket 220, the other end of which is pivotally connected to one end of a second bracket 230. The lock roller 210 takes the place of the lock prong 29 and is likewise normally urged by the first spring 31 downwardly toward the guide opening 24c in the top end stop 15. The other

leaf spring 300 secured to the inner

Rotating the latch 260 with the hole 260a in one or the other direction bring either of the two notches 270a with the apex of the leaf spring 270a with the apex of the leaf spring 270a. In Figures 10 and 11, the crank arm 250 with its finger portion 250b held against the surface of the second bracket 230 and its locking portion 250a in abutting relation with the peripheral portion 280b of the cam disc 280. In position the slider 14 is unlocked with the top end stop 15 as the first bracket 220 and lock roller 210, is free to move away from the top end stop 15. By rotating the latch 260 so that the opposite notch 270b engages the top end stop 15, the slider 14 and the top end stop 15 are locked because the first peripheral portion 280a of the cam disc 280 confronts and pushes the finger portion 250b toward the lock roller 210 against the spring 240 until the finger portion 250b moves the first bracket 220 past the second bracket 230, which prohibits the upward movement of the slider 14 as shown in Figure 14.

Having thus described the invention, it is understood that the slider 14 can be brought into engagement with the top end stop 15 smoothly and that the top end stop 15 can move to the invention can be freely moved into engagement of coupling elements 13 on a slider 14 as shown in Figure 15 and can be secured to the slider 14 as described as by a threaded bolt 40 or by an adhesive (not shown), as shown in

along said rows of coupling elements (13), each of said sliders (14) having an upper wing (16) and a lower wing (17) joined at one of their ends by a neck (18) and defining therebetween a guide channel for the passage of said rows of coupling elements (13), each of said top end stops (15) having an upper wing extension (24a) and a lower wing extension (24b) extending in parallel with each other, characterized in that each of said sliders (14) has a wing extension (20) extending forwardly of said neck (18) and having a lock cavity (20c), said upper wing extension (24a) and said lower wing extension (24b) of said end stop (15) defining therebetween a guide opening (24c) for receiving said wing extension (20) of said slider (14), that a casing (25) is attached to an upper wing of said top end stop (15), that a lock tumbler (26, 200) is movably mounted in said casing (25) for rotation around a transverse axis (27) to enter into and retract from said guide opening (24c) and adapted to engage with said lock cavity (20c), a spring (31) normally urging said lock tumbler (26, 200) vertically toward said guide opening (24c), and a control means (35, 260) for selectively locking and unlocking said lock tumbler (26, 200) and that a slide bracket (32, 250) is horizontally movably mounted in said casing (25) for movement between a first operative position in which said lock tumbler (26, 200) is blocked against rotation and a second inoperative position in which said lock tumbler (26, 200) may be rotated around said transverse axis (27) against the bias of said spring (31) for retraction from said guide opening (24c).

25 Oberschildverlängerung (24a) des
schildverlängerung (24b) des
(15) zwischen sich eine Führung
zur Aufnahme der Schildverlän
Schiebers (14) begrenzen, daß
am Oberschild des oberen Begr
befestigt ist, daß eine Schließ
dem Gehäuse (25) um eine Quer
bar gelagert ist, sodaß sie in
nung (24c) eindringen und aus
zogen werden kann, und die
lungsausnehmung (20c) in Ein
daß die Schließfalle (26, 200)
(31) zu der Führungsöffnung
vorgespannt ist und daß Steuer
vorhanden sind, um die Schließ
wahlweise zu verriegeln und z
daß ein Bügelschlitten (32, 250)
(25) horizontal bewegbar gelage
wegung zwischen einer ersten
lung, in der die Schließfalle (26
Verdrehung gesperrt ist, und e
wirksamen Stellung, in der die
200) zum Zurückziehen aus d
nung (24c) gegen die Vorspan
(31) um die Querachse (27) ver

Revendications

1. Fermeture à glissière (10) produisant une chaîne continue (F) de fermeture comprenant une paire de rubans de fermeture des d'accrochage portant chacun une des respectives d'éléments d'accrochage à l'extrémité long de leurs bords longitudinaux.

of said sliders (14) having an upper wing (16) and a lower wing (17) joined at one of their ends by a neck (18) and defining therebetween a guide channel for the passage of said rows of coupling elements (13), each of said top end stops (15) having an upper wing extension (24a) and a lower wing extension (24b) extending in parallel with each other, characterized in that each of said sliders (14) has a wing extension (20) extending forwardly of said neck (18) and having a lock cavity (20c), said upper wing extension (24a) and said lower wing extension (24b) of said end stop (15) defining therebetween a guide opening (24c) for receiving said wing extension (20) of said slider (14), that a casing (25) is attached to an upper wing of said top end stop (15), that a lock tumbler (26, 200) is movably mounted in said casing (25) for rotation around a transverse axis (27) to enter into and retract from said guide opening (24c) and adapted to engage with said lock cavity (20c), a spring (31) normally urging said lock tumbler (26, 200) vertically toward said guide opening (24c), and a control means (35, 260) for selectively locking and unlocking said lock tumbler (26, 200) and that a slide bracket (32, 250) is horizontally movably mounted in said casing (25) for movement between a first operative position in which said lock tumbler (26, 200) is blocked against rotation and a second inoperative position in which said lock tumbler (26, 200) may be rotated around said transverse axis (27) against the bias of said spring (31) for retraction from said guide opening (24c).

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schildverlängerung (24b) des (15) zwischen sich eine Führung zur Aufnahme der Schließverlä Schliebers (14) begrenzen, daß am Oberschild des oberen Beg befestigt ist, daß eine Schließ dem Gehäuse (25) um eine Quer bar gelagert ist, sodaß sie in nung (24c) eindringen und aus zogen werden kann, und die lungsausnehmung (20c) in El daß die Schließfalle (26, 200) (31) zu der Führungsöffnung vorgespannt ist und daß Steu vorhanden sind, um die Schl wahlweise zu verriegeln und daß ein Bügelschlitten (32, 250) (25) horizontal bewegbar gelag wung zwischen einer ersten lung, in der die Schließfalle (26 Verdrehung gesperrt ist, und wirksamen Stellung, in der die 200) zum Zurückziehen aus nung (24c) gegen die Vorspan (31) um die Querachse (27) ve

Revendications

1. Fermeture à glissière (10) prod chaîne continue (F) de ferm comprenant une paire de ruban des d'accrochage portant cha respectives d'éléments d'acc long de leurs bords longitudina



te de verrouillage (26, 200) est montée de façon 25
 mobile dans le boîtier (25) en vue d'une rotation
 autour d'un axe transversal (27) pour pénétrer
 dans l'ouverture de guidage (24c) et être rappe-
 lée de cette ouverture et est adaptée pour être
 engagée dans la cavité de verrouillage (20c), un 30
 ressort (31) poussant normalement la gâchette
 de verrouillage (26, 200) verticalement en direc-
 tion de l'ouverture de guidage (24c), et un moyen
 de commande (35, 260) pour verrouiller et dé- 35
 verrouiller sélectivement la gâchette de verrouil-
 lage (26, 200); et un coulisseau (32, 250) est
 monté de façon mobile, horizontalement, dans le
 boîtier (25) en vue d'un déplacement entre une
 première position active dans laquelle la gâchette
 de verrouillage (26, 200) est empêchée de tour- 40
 ner et une seconde position inactive dans laquel-
 le la gâchette de verrouillage (26, 200) peut tour-
 ner autour de l'axe transversal (27) à l'encontre
 de la force du ressort (31) en vue d'être rappelée
 de l'ouverture de guidage (24c). 45

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