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(54) **INTEGRATED LOCKING ZIPPER PULL**

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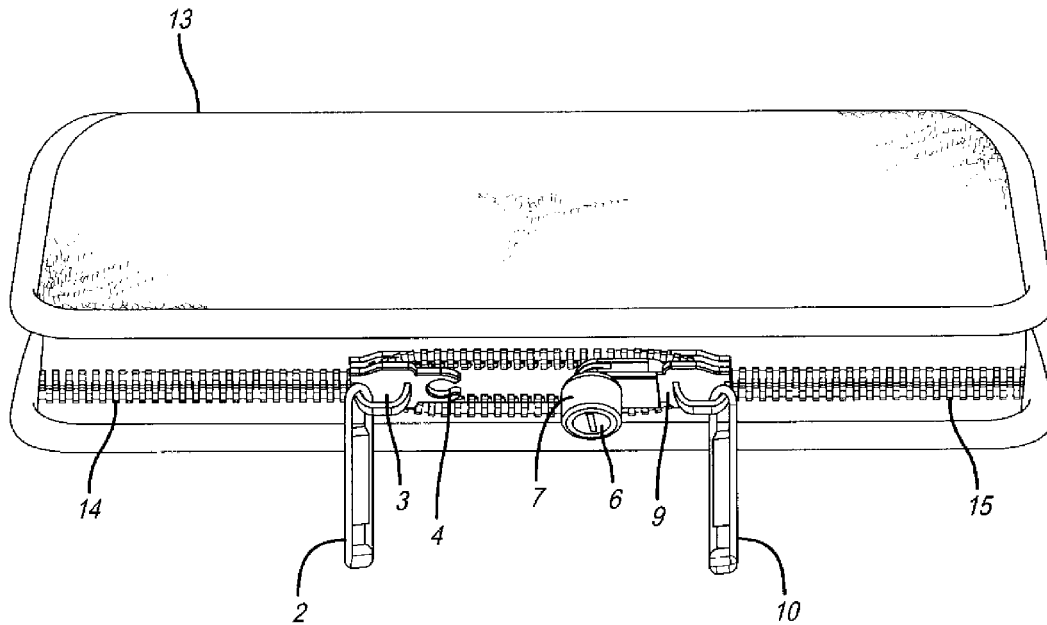
(57) **ABSTRACT**

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Related U.S. Application Data

A locking zipper system comprising a container having a zipper having two independent locks facing each other, each connected to a tumbler, the tumbler comprising a lock and key, in which the tumbler locks both end of each zipper and can only be opened by the key.

(60) Provisional application No. 62/562,748, filed on Sep. 25, 2017.



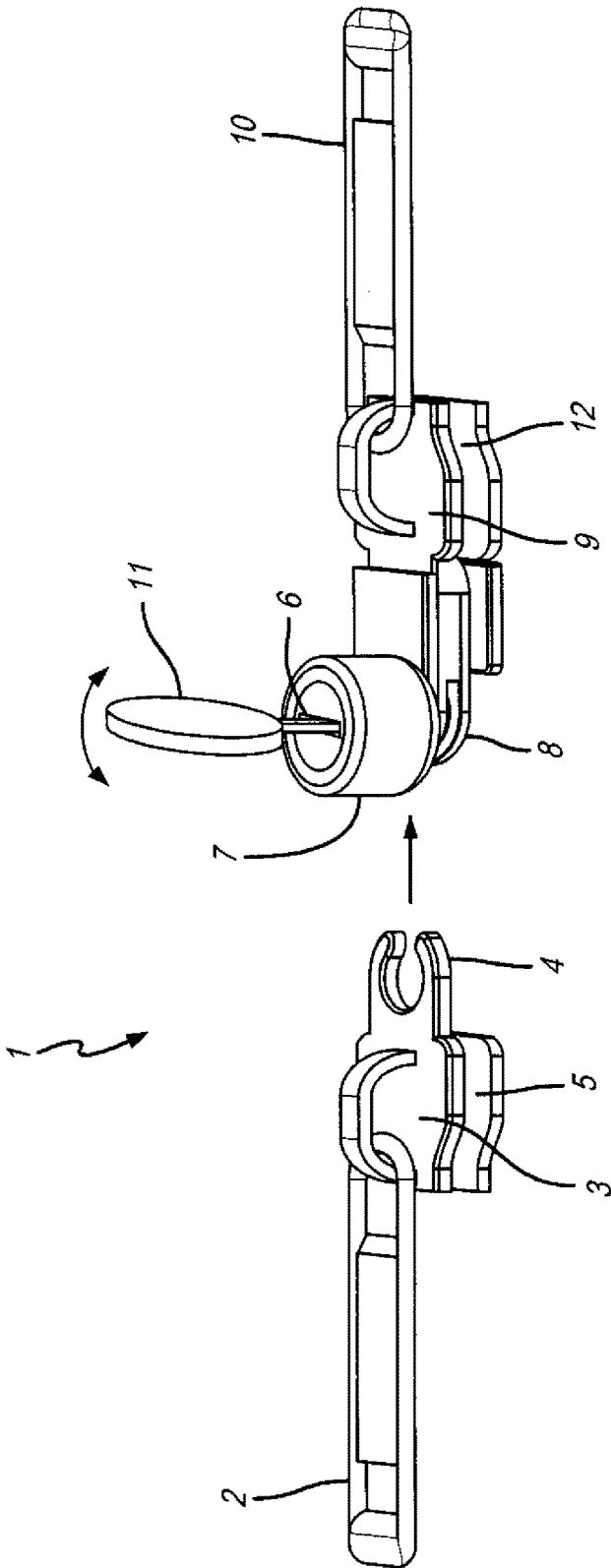


FIG. 1

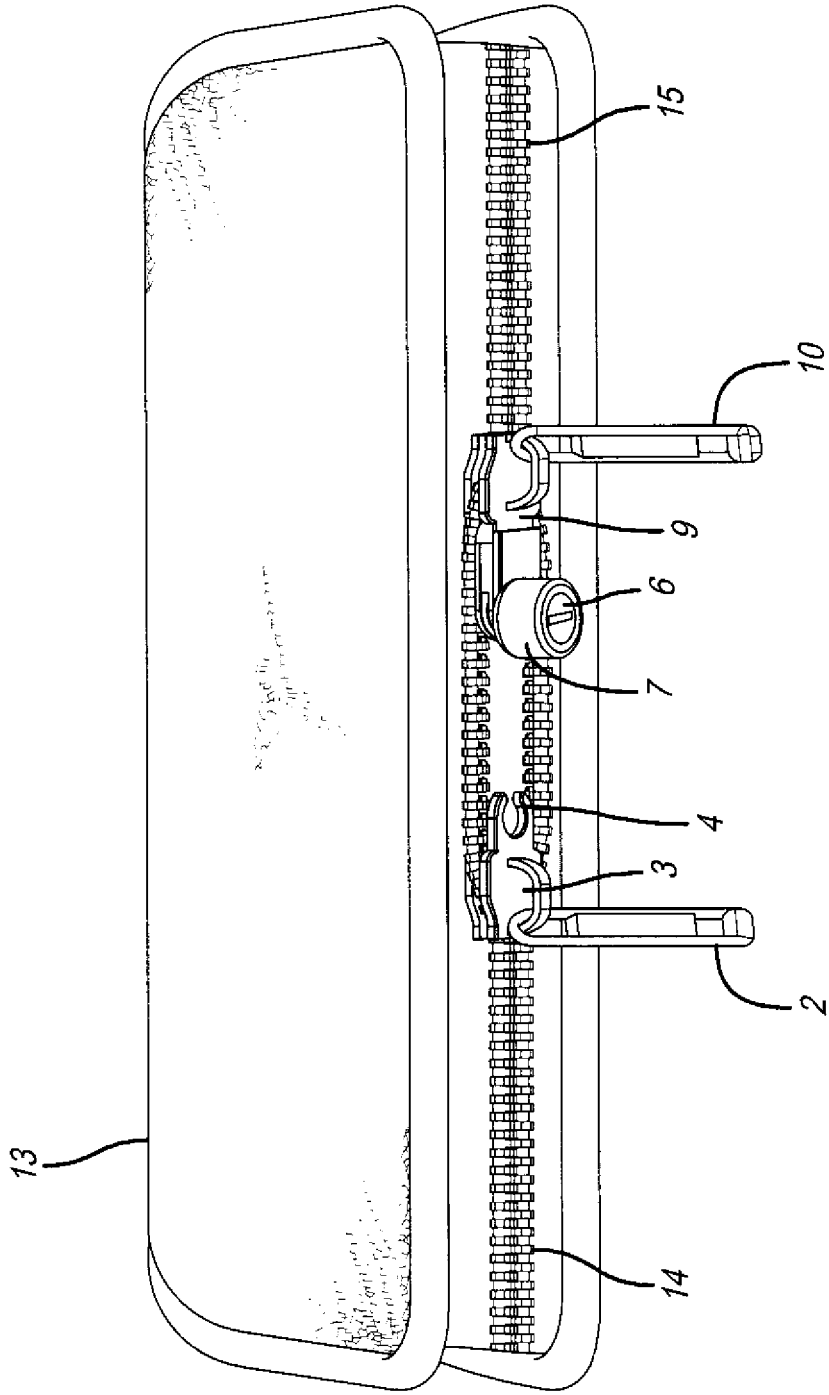


FIG. 2

INTEGRATED LOCKING ZIPPER PULL**CROSS-REFERENCE TO RELATED APPLICATIONS**

[0001] This Application claims the benefit of the U.S. Provisional Application Ser. No. 62/617,509, filed Sep. 25, 2017, the disclosure of which is hereby incorporated in its entirety by reference herein.

TECHNICAL FIELD

[0002] The invention relates to a locking zipper pull comprising two halves which connect and lock together with a key.

BACKGROUND

[0003] Most bags that have zippers have no way to lock the zipper so that the bag cannot be opened.

SUMMARY

[0004] The method of this invention comprises a locking zipper function which lock two independent zipper pull ends together with a key. This locking function securely closes the zippered pocket, only to be accessed again by unlocking the device with a key in order to access the contents of the pocket. This is ideally used, for example, for a bag carrying weapons, jewelry or other valuable items. The integrated locking zipper pull consists of two halves. One half contains a zipper pull end with locking teeth or “male end” that will feed into the opposite half of the locking once pulled together. The second half contains the locking tumbler or “female end” with a key slot to lock and unlock the device. The device also has attached zipper pull end pieces to help guide the integrated locking zipper pull along zipper fabric to properly secure the zipper teeth on each side.

BRIEF DESCRIPTION OF THE DRAWINGS

[0005] FIG. 1 is an exploded view of the locking zipper pull of this invention;

[0006] FIG. 2 is a view of the locking zipper attached to a bag.

DETAILED DESCRIPTION

[0007] As required, detailed embodiments of the present invention are disclosed herein; however, it is to be understood that the disclosed embodiments are merely exemplary of the invention that may be embodied in various and alternative forms. The figures are not necessarily to scale; some features may be exaggerated or minimized to show details of particular components. Therefore, specific structural and functional details disclosed herein are not to be interpreted as limiting, but merely as a representative basis for teaching one skilled in the art to variously employ the present invention.

[0008] Referring now to the drawings, FIG. 1 shows an exploded view of the locking zipper pull of the invention. There is shown the overall view 1 comprising zipper handle 2 attached to zipper pull end 3 having locking teeth 4. There is a slot 5 for zipper teeth from the fabric of a bag which fits into zipper pull end 3.

[0009] On the other side of the locking zipper pull is the zipper handle 10 attached to zipper pull end 9. Attached to zipper pull 9 is a locking tumbler 7 having a key slot 6 for holding a key 11. Zipper end 9 has a slot 12 for zipper teeth of the fabric of a bag to be held.

[0010] Locking teeth 4 of zipper pull end 3 enters slot 8 of tumbler 7 where it is locked into slot 8 by the turn of the key 11 in key slot 6. The internal part of locking tumbler 7 comprises a rotating piece which when the key is turned, locks into locking teeth 4 and cannot be opened unless the key 11 enters and is turned to release locking teeth 4.

[0011] Referring to FIG. 2, there is a bag 13 having two zippers, 14 and 15, going in opposite directions and meeting both together, locked by a tumbler 7 and key 11, so that they can only open the bag by the key 11. There is shown a bag 13 having a zipper 14 on one side and 15 on the other side, for closing the bag 13. Zipper pulls 2 and 10 are used to pull opening and closing bag 13. The zipper pulls 2 and 10 are attached to zipper pull ends 3 and 9 as shown in FIG. 1. Locking teeth 4 enters slot 8, shown in FIG. 1.

[0012] Zipper pull ends 3 and 9 have slots 5 and 12 for moving over bag zippers 14 and 15 to open and close bag 13. Bag zippers 14 and 15 may move apart to the sides or ends of the bag, allowing the bag to fully open. Locking tumbler 7 has a key slot 6 for holding a key 11 in key slot 6, shown in FIG. 1. With a twist of key 11, the bag is locked and cannot be opened, except with the key 11.

[0013] As required, detailed embodiments of the present invention are disclosed herein; however, it is to be understood that the disclosed embodiments are merely exemplary of the invention that may be embodied in various and alternative forms. The figures are not necessarily to scale; some features may be exaggerated or minimized to show details of particular components. Therefore, specific structural and functional details disclosed herein are not to be interpreted as limiting, but merely as a representative basis for teaching one skilled in the art to variously employ the present invention.

What is claimed is:

1. A locking zipper system comprising a container having a zipper having two independent locks facing each other, each connected to a tumbler, the tumbler comprising a lock and key, in which the tumbler locks both end of each zipper and can only be opened by the key.
2. The locking zipper system of claim 1 in which one zipper pull has a slot which attaches to the tumbler and a second zipper pull is attached to the tumbler.
3. A bag having a locking zipper system in which there are two zipper pulls, going in opposite directions or meeting towards each other, locked in a tumbler having a key, so that the bag can only be opened by the key.
4. The locking zipper system of claim 3 in which one zipper pull has a slot which attaches to the tumbler and the second zipper pull is attached to the tumbler.
5. The locking zipper pulls of claim 3 can both move to the back of the bag allowing the bag to fully open.
6. The locking zipper pulls of claim 4 in which the tumbler has a key slot for holding a key to lock the bag.

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