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(54) COMPUTER ENCLOSURE WITH PULL TAB

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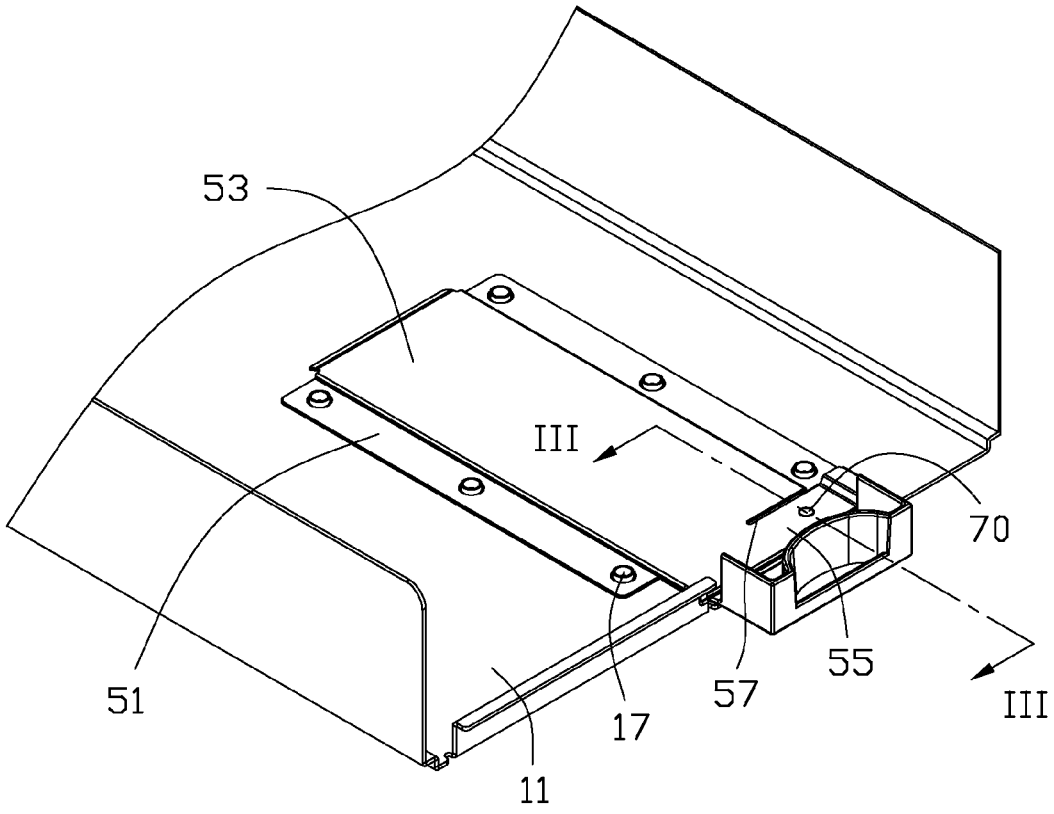
(57) **ABSTRACT**

A computer enclosure includes a chassis, a mounting bracket, and a pull tab. The mounting bracket is mounted to the chassis. The mounting bracket includes a resilient clip. A fastener is located on the resilient clip. The pull tab is located between the chassis and the mounting bracket. The pull tab is engaged with the mounting bracket. A channel is defined in the pull tab and extends along a first direction. The fastener extends through the channel, and the pull tab is removable along the first direction with the fastener guided by the channel.



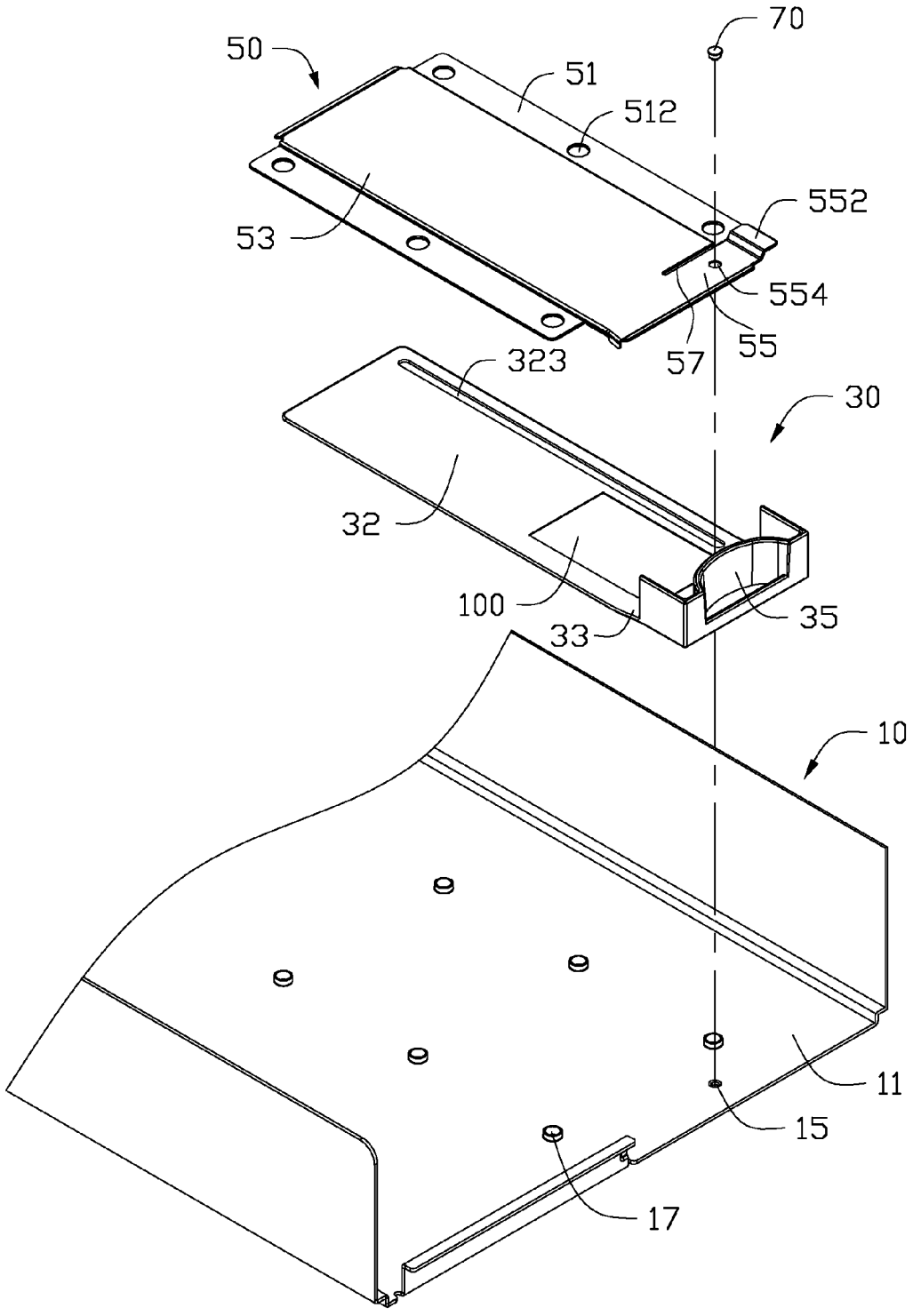


FIG. 1

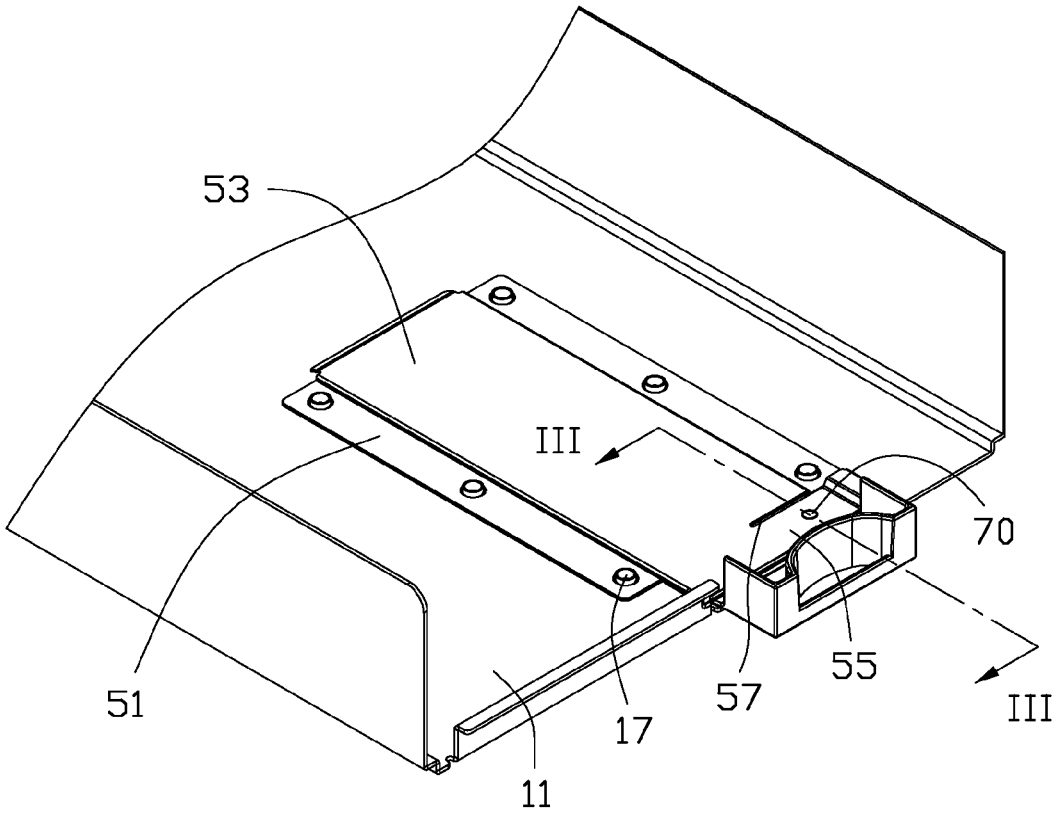


FIG. 2

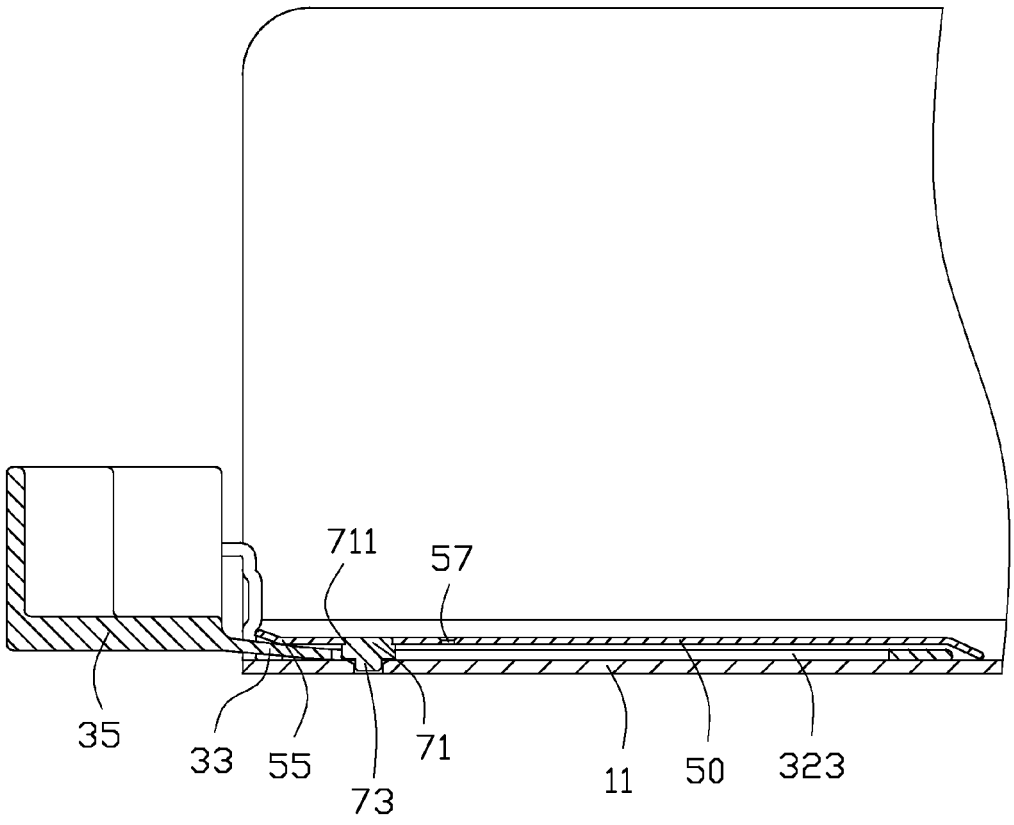


FIG. 3

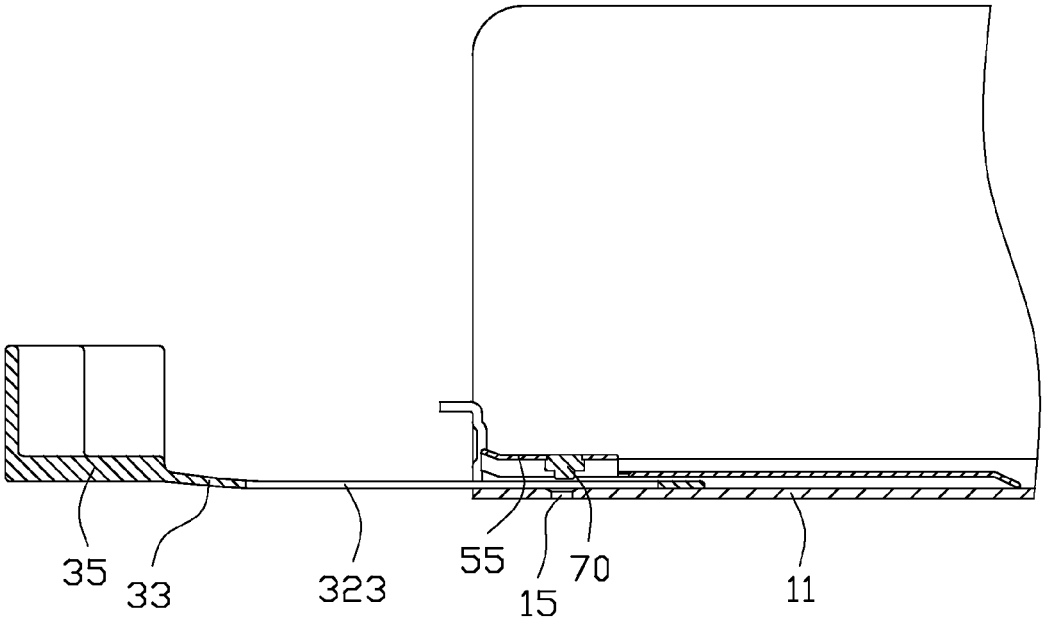


FIG. 4

COMPUTER ENCLOSURE WITH PULL TAB

BACKGROUND

[0001] 1. Technical Field

[0002] The present disclosure relates to computer enclosures, especially to a computer enclosure with a pull tab.

[0003] 2. Description of Related Art

[0004] Many computers have an information label about the computer on the enclosure. The information label is sometimes located on a pull tab, which can be slid from the enclosure of the computer when one wants to read the information about the computer. The pull tab is directly retained in a sliding way of a bracket mounted to the enclosure. However, the present pull tabs cannot be smoothly guided by the sliding way of the bracket. Therefore, there is room for improvement within the art.

BRIEF DESCRIPTION OF THE DRAWINGS

[0005] Many aspects of the embodiments can be better understood with references to the following drawings. The components in the drawings are not necessarily drawn to scale, the emphasis instead being placed upon clearly illustrating the principles of the embodiments. Moreover, in the drawings, like reference numerals designate corresponding parts throughout the several views.

[0006] FIG. **1** is an exploded, isometric view of a computer enclosure according to one embodiment.

[0007] FIG. **2** is an assembled view of the computer enclosure of FIG. **1**.

[0008] FIG. **3** is a cross sectional view taken along line III-III of FIG. **2**.

[0009] FIG. **4** is similar to FIG. **3**, but a pull tab is moved away from a chassis.

DETAILED DESCRIPTION

[0010] The disclosure is illustrated by way of example and not by way of limitation in the figures of the accompanying drawings in which like references indicate similar elements. It should be noted that references to "an" or "one" embodiment in this disclosure are not necessarily to the same embodiment, and such references mean at least one.

[0011] An embodiment of a computer enclosure can be a server rack enclosure for receiving servers or an enclosure for receiving computer hardware directly.

[0012] Referring to FIG. **1**, the computer enclosure includes a chassis **10**, a pull tab **30**, and a mounting bracket **50**.

[0013] The chassis **10** includes a bottom wall **11**. A plurality of hollow collar posts **17** is located on the bottom wall **11**. A mounting hole **15** is defined in the bottom wall **11**.

[0014] The mounting bracket **50** includes a top board **53**, two side flanges **51** and a resilient clip **55**. The two side flanges **51** extend from opposite sides of the top board **53**. The two side flanges **51** are located at a lower plane relative to a plane of the top board **53**. A plurality of mounting holes **512** is defined in each of the side flanges **51** corresponding to the collar posts **17**. The resilient clip **55** is deformable relative to the top board **53**. A slot **57** is defined between the resilient clip **55** and the top board **53**. The slot **57** traverses the top board **53** and extends to a middle line of the top board **53**. A locking hole **554** is defined in the resilient clip **55**. An operation finger **552** is located at a distal end of the resilient clip **55** for pulling the resilient clip **55**.

[0015] A fastener **70** extends through the locking hole **554** and engages with the resilient clip **55**. The fastener **70** includes a body **71** and a foot **73**. The body **71** can be deformed and is engaged in the locking hole **554**. An annular groove **711** is defined around the body **71** to engage with the resilient clip **55** (see FIG. **3**). The foot **73** protrudes downward from the resilient clip **55**.

[0016] The pull tab **30** may be used to attach an information label **100** about a computer. The pull tab **30** includes a rectangular supporting board **32**, a holding board **33**, and a handle **35**. A channel **323**, or a through slot, is defined in the supporting board **32** along a first direction. The channel **323** travels along a straight line in one embodiment. The resilient holding board **33** is oblique to the supporting board **32**. The resilient holding board **33** may be curved. The handle **35** extends from the resilient holding board **33**. An arcuate holding space is defined in the handle **35** for facilitating being pulled by hand.

[0017] Referring to FIG. **2** and FIG. **3**, when the mounting bracket **50** is mounted to the chassis **10**, the mounting bracket **50** is located on the bottom wall **11** with the collar posts **17** extending through the corresponding mounting holes **512** of the mounting bracket **50**. The collar post **17** can be riveted to retain the mounting bracket **50** to the chassis **10**. A receiving space is defined between the top board **53** and the bottom wall **11**.

[0018] Referring to FIG. **4**, when the pull tab **30** is installed on the chassis **10**, the resilient clip **55** is deformed upward. The pull tab **30** is moved into the receiving space of from an side of the chassis **10**. The resilient clip **55** is released and rebounds back to an original state. In the original state, the resilient clip **55** is substantially parallel to a plane of the top board **53**, and the fastener **70** extends through the channel **323** and the mounting hole **15**. The pull tab **30** may be guided by the channel **323**.

[0019] Referring to FIG. **3**, when the pull tab **30** is moved into the receiving space, the holding board **33** is deformed by the mounting bracket **50**. The pull tab **53** is retained by the mounted bracket **50**. The pull tab **30** is partially located in the receiving space with handle **35** exposed outside the chassis **10**.

[0020] Referring to FIG. **4**, when one wants to see the information label **100**, the pull tab **53** is pulled from the chassis **10**, and the holding board **33** is released and rebounds to the original state. The pull tab **53** can be restricted in the channel **323** from being detached from the chassis.

[0021] It is also to be understood, however, that even though numerous characteristics and advantages have been set forth in the foregoing description of preferred embodiments, together with details of the structures and functions of the preferred embodiments, the disclosure is illustrative only, and changes may be made in detail, especially in matters of shape, size, and arrangement of parts within the principles of the disclosure to the full extent indicated by the broad general meaning of the terms in which the appended claims are expressed.

1. A computer enclosure comprising:

a chassis;

a mounting bracket mounted to the chassis, the mounting bracket comprising a resilient clip, a fastener located on the resilient clip; and

a pull tab located between the chassis and the mounting bracket, the pull tab comprising a supporting board, a resilient holding board extending from the supporting board, and a channel in the pull tab and extending along

a first direction, the supporting board being substantially parallel to the resilient clip in an original state, the resilient holding board being engaged with the resilient clip of the mounting bracket;

wherein the fastener extends through the channel, and the pull tab is removable along the first direction with the fastener guided by the channel.

2. The computer enclosure of claim **1**, wherein the channel extends along a straight line.

3. The computer enclosure of claim **2**, wherein the mounting bracket further comprises a top board, a receiving space is defined between the top board and the chassis, and the pull tab is partially located in the receiving space.

4. The computer enclosure of claim **3**, wherein a slot is defined between the top board and the resilient clip, the slot travels along a second direction substantially perpendicular to the first direction, and the resilient clip is substantially parallel to a plane of the top board.

5. The computer enclosure of claim **1**, wherein an annular groove is defined around the fastener to engage with the resilient clip.

6. The computer enclosure of claim **1**, wherein the fastener comprises a body, a locking hole is defined in the resilient clip, and the body is deformably engaged in the locking hole.

7. The computer enclosure of claim **1**, wherein the fastener comprises a foot, and a mounting hole is defined in the chassis for receiving the foot.

8. The computer enclosure of claim **1**, wherein the resilient holding board is oblique to the supporting board, and the resilient holding board is deformable by the supporting board.

9. The computer enclosure of claim **8**, wherein the pull tab further comprises a handle connected to the resilient holding board, and the handle is located at a side of the mounting bracket.

10. (canceled)

11. A computer enclosure comprising:

a chassis;

a mounting bracket mounted to the chassis, the mounting bracket comprising a resilient clip, a fastener located on the resilient clip; and

a pull tab located between the chassis and the mounting bracket, the pull tab engaged with the mounting bracket, and a channel defined in the pull tab and extending along a first direction;

wherein the resilient clip is rotatable from a first state where the fastener extends through the channel and the pull tab is removable along the first direction with the fastener guided by the channel, to a second state where the resilient clip is deformed and the fastener is disengaged from the channel.

12. The computer enclosure of claim **11**, wherein the channel extends along a straight line.

13. The computer enclosure of claim **12**, wherein the mounting bracket further comprises a top board, a receiving space is defined between the top board and the chassis, and the pull tab is partially located in the receiving space.

14. The computer enclosure of claim **13**, wherein a slot is defined between the top board and the resilient clip, the slot travels along a second direction substantially perpendicular to the first direction, and the resilient clip is substantially parallel to a plane of the top board at the first state.

15. The computer enclosure of claim **11**, wherein an annular groove is defined around the fastener to engage with the resilient clip.

16. The computer enclosure of claim **11**, wherein the fastener comprises a body, a locking hole is defined in the resilient clip, and the body is deformably engaged in the locking hole.

17. The computer enclosure of claim **11**, wherein the fastener comprises a foot, and a mounting hole is defined in the chassis for receiving the foot.

18. The computer enclosure of claim **11**, wherein the supporting board being substantially parallel to the resilient clip in the first state, the pull tab comprises a supporting board and a resilient holding board oblique to the supporting board, and the resilient holding board is deformable and is engaged with the resilient clip.

19. The computer enclosure of claim **18**, wherein the pull tab further comprises a handle connected to the resilient holding board, and the handle is located at a side of the mounting bracket.

20. (canceled)

21. The computer enclosure of claim **4**, wherein the slot substantially extends to a middle portion of the top board.

22. The computer enclosure of claim **14**, wherein the slot substantially extends to a middle portion of the top board.

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