A flat-panel display with fixtures in its sidewalls to enable support by lateral mounting members is disclosed. The advantage of this approach, in which the fixtures are essentially rotated around to the sides of the flat-panel display, is the reduction in the portion of the portable computer’s top cover that is not the active display. In practice, this results in an increase in the size of the display that may be housed in the same-sized top cover. In order to accommodate the lateral mounting of the flat-panel display, metal brackets are used. These brackets extend from the base unit hinges and cradle the display. This adds torsional rigidity, but also removes the requirement that the back must be structural. Further reductions in the inactive portions of the top cover may be achieved by extending the ends of the display’s fluorescent back-light beyond or through the metal rim that surrounds the display.
FLAT-PANEL DISPLAY MOUNTING SYSTEM FOR PORTABLE COMPUTER

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of application Ser. No. 11/007,718, filed Dec. 6, 2004, which is a continuation of application Ser. No. 08/822,438, filed Mar. 21, 1997, now U.S. Pat. No. 6,838,810 dated Jan. 4, 2005.

BACKGROUND OF THE INVENTION

[0002] Portable computers almost universally have a top cover that pivots to open or close over a base unit. The top cover typically houses a flat-panel display, and the base unit has a keyboard and, many times, some form of pointing device.

[0003] In most cases, the flat-panel display is supported in the top cover by securing it to a plastic back or rear portion of the top cover. Usually, the flat-panel display has four or more holes around its periphery; bolts extend orthogonally to the face of the display, through the holes, to engage bosses, which are integral with the back. The plastic back is typically structural in nature, being manufactured from a rigid plastic. When connected together, the flat-panel display and the plastic back provide necessary rigidity to the top cover.

[0004] The selection of the flat-panel display in portable computers is generally driven by two competing concerns. On one hand, with the availability of ever-larger flat-panel displays, there is a desire to incorporate those displays into newer portable computer designs. Running contrary to this, however, is the desire to limit the overall dimensions of the computers to enhance their portability. For example, it is common to design portable computers with outside dimensions limited to approximately 8x11". These dimensions are characteristic of notebook-sized computers.

[0005] Various innovations have come about to increase the active or viewing area of the flat-panel display as a proportion of the total surface area of the top cover to obtain larger displays without increasing the computer's overall dimensions. For example, it is known to fold the driving and other peripheral circuitry around to the back of the flat-panel display. This results in a display panel whose surface area is almost entirely active except for the width of the metal rim that holds the display together and the bolt holes that are used to attach the flat-panel display to the plastic back.

BRIEF SUMMARY OF THE INVENTION

[0006] The problem with prior art configurations is the fact that they fail to recognize that the size of the top cover need not be large enough to accommodate the bolt holes. According to the present invention, the flat-panel display is provided with fixtures in the display's sidewalls to provide for its support by lateral mounting members. The advantage of this approach, in which the bolt holes are essentially rotated around to the sides of the flat-panel display, is the reduction in the portion of the portable computer's top cover that is not an active display. In practice, this results in an increase of six millimeters or more in the size display that may be housed in the same-sized top cover.

[0007] In specific embodiments, the lateral mounting members comprise bolts that engage bosses in the flat-panel display.

[0008] Further reductions in the inactive portions of the top cover may be achieved by extending the ends of the display's fluorescent back-light beyond or through the metal rim that surrounds the display. This allows the rim to be even thinner.

[0009] Also according to the invention, in order to accommodate the lateral mounting of the flat-panel display, metal brackets are used. These brackets extend from the base unit hinges and cradle the display. This adds torsional rigidity, but also removes the requirement that the back must be structural. As a result, the back can simply be a thin, molded cosmetic rear cover for the computer's top cover.

[0010] In specific embodiments, the lateral mounting members, or bolts, pass through the brackets and the plastic back to engage the bosses, thus binding the elements to each other.

[0011] The above and other features of the invention including various novel details of construction and combinations of parts, and other advantages, will now be more particularly described with reference to the accompanying drawings and pointed out in the claims. It will be understood that the particular method and device embodying the invention are shown by way of illustration and not as a limitation of the invention. The principles and features of this invention may be employed in various and numerous embodiments without departing from the scope of the invention.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

[0012] In the accompanying drawings, reference characters refer to the same parts throughout the different views. The drawings are not necessarily to scale; emphasis has instead been placed upon illustrating the principles of the invention. Of the drawings:

[0013] FIG. 1 is a perspective view of a portable computer according to the present invention;

[0014] FIG. 2 is an exploded view of the top cover of the portable computer according to the invention;

[0015] FIG. 3 is a cross-sectional view of the inventive top cover; and

[0016] FIG. 4 is a partial perspective view of a corner of an inventive flat-panel display.

DETAILED DESCRIPTION OF THE INVENTION

[0017] FIG. 1 illustrates a personal computer 10 constructed according to the principles of the present invention. Generally, the computer 10 has a top cover 100 that is connected by hinges 112, or otherwise pivotally attached, to a base unit 12. The top cover 100 houses a flat-panel display 114 and a second, much smaller, status display 116, which typically provides information concerning remaining battery life, disk drive operation, and other house-keeping functions. The base unit 12 has keyboard 14 and a pointing device 16, a touch pad in the illustrated embodiment. A power switch 18 and disk drive door 20 are located on the side of the base unit 12.

[0018] The overall dimensions of the particular embodiment illustrated when closed are about 8.5 inches wide by 12
inches long, which dimensions also apply to the top cover 100 and base unit 12 separately. The total closed height is over two inches, with the height of the top cover 100 being approximately 0.5 inches.

[0019] The unique characteristics of the present invention are evident in the ratio between the top cover 100 and the active or viewable area of the display 114. The active area of the display 114 illustrated is 14.1 inches, diagonally. Consequently, it consumes over 90% of the top cover’s total area.

[0020] FIG. 2 illustrates the mounting technique for the display 114 in the top cover 100. Structurally, the top cover 100 comprises a back 118. This component is almost universally constructed from plastic and forms the outer shell of the portable computer 10 when the top cover 100 is closed. The back 118 is rectangular in shape and forms essentially a tub around the other elements of the top cover 100. The proximal wall 120 of the back 118 is not present, however, to accommodate the hinge connection to the base unit 12.

[0021] In many prior art designs, the back 118 of the top cover 100 provided significant structural support to the back cover. This fact was evident by the existence of spines or ridges, which are integral with the back, that added rigidity. It is also common to bolt the display to the back by placing bosses in the back during molding. In the present embodiment, only the sidewalls 130, 132 of the back 118 contribute to the back’s bending rigidity, and the back overall has little torsional rigidity.

[0022] Rigidity, especially torsional, is added to the top cover 100 by right and left metal brackets 122, 124 that are located in the back. The proximal portion of each bracket 122, 124 connects to respective right and left hinge elements 126, 128 that are adapted to cooperate with corresponding hinge elements in the base unit 12. The brackets 122, 124 are each aligned against respective sidewalls 130, 132 of the back 118. The cross-section of each bracket is essentially “L”-shaped, the shorter legs 134, 136 extending orthogonally away from the planar inner surface of the back 118 and abutting the back’s sidewalls 130, 132. Two holes 138, 140 in each bracket are sized to accommodate bolts 148, 150, two millimeters in diameter, and the holes 138, 140 align with corresponding holes 142, 144 through the sidewalls 130, 132 of the back 118. Preferably, the outer surfaces of the back’s sidewalls 130, 132 have slight depressions 146 to recess heads of the bolts 148, 150.

[0023] The flat-panel display 114 (not shown) comprises a large active area 152 that is defined by the transparent top window of the display 114. The top window is clamped to the panel’s plastic back (not shown in this figure) by a metal rim 154 that extends around the display’s circumference, defining the display’s bottom (180), left (181), top (182), and right (183) sidewalls 180-183. Holes 156, 158, formed in the metal rim 154, align with the holes 138, 140 in the brackets and back when the display is installed. The four bolts 148, 150 extend through the back 118, brackets 122, 124 to engage bosses held in the display 114 (not shown) behind the metal rim 154.

[0024] A plastic bezel 160 snap fits over the display onto the back. The bezel’s rim extends inward hiding the display’s metal rim 154.

[0025] FIG. 3 is cross-sectional view further illustrating the back cover’s construction. As discussed previously, each of the four bolts 148, 150 extends through the back 118 and corresponding vertical legs 134, 136 of the brackets 122, 124. The bolts 148, 150 further extend through the metal rim 154 of the display to engage corresponding threaded bosses 162 held in the plastic back 164 of the display. Also shown is the snap-fit arrangement 161 of the plastic bezel 160 to the back 118.

[0026] FIG. 4 is a detailed view of one of the lower outer corners of the flat-panel display 114 illustrating another innovation of the invention that enables a more compact display. Usually, the length of the fluorescent back-light plus the thickness of the display’s metal rim dictate the overall width of the display. The light emitting portion of the fluorescent light must be as wide as the active area of the display, but electrodes on the end of the light are wider than the small peripheral inactive portion of the display.

[0027] According to the present invention, circular cut-outs 166 are formed in the metal rim 154 to allow the ends of the fluorescent back-light 168 to extend slightly beyond the outer surface of the metal rim 154. As a result, the overall width of the display is no wider than the critical length of the fluorescent back-light 168. In effect, twice the thickness of the metal rim 154, since cut-outs 166 are provided for both ends of the back-light 168, is removed from the overall width of the display 114 without any loss in active area 152.

[0028] In other embodiments of the invention, the bolts 148, 150 may be replaced with pins that extend through the back 118 and brackets 122, 124 to engage non-threaded holes in the sidewalls 180-183 of the display 114, possibly using an interference fit. Alternatively, these pins could be integral with the metal brackets 122, 124. In this latter case, it may be desirable to have the display 114 to snap fit with the pins, to facilitate the manufacturing process.

[0029] In another embodiment, pins extend outward from the display 114, possibly integral with the metal rim 154 to engage the brackets 122, 124 with an arrangement. This configuration has an advantage, because there is no need to accommodate holes in the display, which could affect the display’s electrical design.

[0030] In still other embodiments, mounting could be accomplished off of the top and bottom sidewalls 180, 182 of the display 114. In this case, lateral mounting members that cooperate with these sidewalls would be used to replace the mounting fixtures on the right and left sidewalls 181, 183, or in addition to those fixtures.

What is claimed is:  
1. A mounting system for a flat-panel display for a computer, the mounting system comprising:

- a bracket member for mounting the flat-panel display in a cover, the bracket member having at least one first hole formed laterally through a portion thereof and at least one second hole formed therethrough; and
the flat-panel display including a back, a display panel, and a rim extending around the back and display panel, the back having at least one hole formed laterally therein, the flat-panel display secured to at least one portion of the bracket member using at least one mounting member extending through the at least one first hole formed laterally through a portion of the bracket member and engaging at least a portion of the at least one hole of the back of the flat-panel display for mounting the flat-panel display to the bracket member.

2. The mounting system of claim 1, wherein the bracket member comprises a member having a first portion extending in a first direction and a second portion extending orthogonally in a second direction therefrom.

3. The mounting system of claim 2, wherein the at least one first hole is formed in the first portion of the bracket member and the at least one second hole is formed in the second portion of the bracket member.

4. The mounting system of claim 1, wherein the cover includes a sidewalk.

5. The mounting system of claim 4, wherein the bracket member comprises a member having a first portion extending in a first direction for extending in the direction of the sidewalk of the cover being spaced therefrom and a second portion extending orthogonally in a second direction therefrom.

6. The mounting system of claim 5, wherein the bracket member further includes the at least one first hole located in the first portion and the at least one second hole located in the second portion.

7. The mounting system of claim 6, further comprising another mounting member for mounting the flat-panel display in the cover.

8. The mounting system of claim 7, wherein the another mounting member is for mounting the flat-panel display in the cover having a portion thereof extending through a hole in the cover and extending into at least a portion of the at least one second hole in the bracket member for mounting the flat-panel display in the cover.

9. The mounting system of claim 1, wherein a bezel may be used to cover a portion of the flat-panel display.

10. The mounting system of claim 9, wherein the bezel further includes a portion for abutting a portion of a sidewalk of the cover.

11. The mounting system of claim 10, wherein the bezel further includes a portion for extending into the cover.

12. The mounting system of claim 11, wherein the bezel further includes a portion for extending into the cover to be located between the sidewalk thereof and first portion of the bracket member.

13. An assembly for mounting a flat-panel display comprising:

- a flat-panel display including a back having at least one hole formed laterally therein and a display panel, the flat-panel display secured to at least one portion of a bracket member by using at least one mounting member extending through a first hole formed laterally through a portion of the bracket member and engaging at least a portion of the at least one hole of the back of the flat-panel display for mounting the flat-panel display to the bracket member for mounting the assembly in a cover for a computer.

14. The assembly of claim 13, wherein the bracket member comprises a member having a first portion extending in a first direction and a second portion extending orthogonally in a second direction therefrom.

15. The assembly of claim 14, wherein the first hole is formed in the first portion of the bracket member and at least one second hole is formed in the second portion of the bracket member.

16. The assembly of claim 13, wherein the cover includes a sidewalk.

17. The assembly of claim 16, wherein the bracket member comprises a member having a first portion extending in a first direction for extending in the direction of the sidewalk of the cover being spaced therefrom and a second portion extending orthogonally in a second direction therefrom.

18. The assembly of claim 17, wherein the bracket member further includes the first hole located in the first portion and at least one second hole located in the second portion.

19. The assembly of claim 18, further comprising another mounting member for mounting the flat-panel display in the cover.

20. The assembly of claim 19, wherein the another mounting member extends through a hole in the cover and extending into at least a portion of the at least one second hole in the bracket member for mounting the flat-panel display in the cover.

21. The assembly of claim 13, wherein a bezel may be used to cover a portion of the flat-panel display.

22. The assembly of claim 21, wherein the bezel further includes a portion for abutting a portion of a sidewalk of the cover.

23. The assembly of claim 22, wherein the bezel further includes a portion for extending into the cover.

24. The assembly of claim 13, wherein the bezel further includes a portion for extending into the cover to be located between a sidewalk thereof and first portion of the bracket member.

25. The assembly of claim 13, wherein the flat-panel display further includes a rim extending around the display panel and the back.

26. An assembly of a mounting system for a flat-panel display, the mounting system comprising:

- a cover including a back and a sidewalk extending around at least a portion of the back, the sidewalk having at least one hole extending therethrough, the cover configured for housing a flat-panel display therein;

  - a flat-panel display including a back having at least one hole formed laterally therein configured for mounting the flat-panel display in the cover using mounting members engaging at least a portion of the first hole in the bracket member and at least a portion of the at least one hole of the back of the flat-panel display and engaging the at least one hole in the sidewalk of the cover.

27. A mounting system for a flat-panel display comprising:

- a cover including a back and a sidewalk extending around at least a portion of the back, the sidewalk having at least one hole extending therethrough, the cover configured for housing a flat-panel display therein;

- a flat-panel display including a back having at least one hole formed laterally therein configured for mounting the flat-panel display in the cover using a mounting
28. A mounting system for a flat-panel display in a cover for a computer comprising:

a flat-panel display having a plurality of edges including at least one hole formed laterally therein configured for mounting the flat-panel display in a cover of a portable computer, the cover having a back and a sidewall extending therearound having at least one hole therethrough; and

a lateral mounting member extending laterally from the at least one hole in the sidewall of the cover engaging at least a portion of the at least one hole in the plurality of edges of the flat-panel display.

29. The mounting system of claim 28, wherein the flat-panel display comprises another hole formed laterally therein and another mounting member extending thereinto.

30. The mounting system of claim 28, wherein the lateral mounting member comprises a bolt engaging a boss in the flat-panel display.

31. The mounting system of claim 28, wherein the cover comprises a plastic back, pivotal couplings connecting the cover to a base unit, and at least one metal bracket that extends from the pivotal couplings, the lateral mounting member engaging at least one metal bracket and the plastic back.

32. The mounting system of claim 31, wherein the lateral mounting member comprises a bolt that passes through the bracket and the plastic back to engage a boss in the flat-panel display.

33. The mounting system of claim 31, wherein the plastic back does not substantially contribute to the rigidity of the top cover.

34. The mounting system described in claim 28, wherein the flat-panel display comprises a display panel, a display rim extending around a perimeter of the display panel, and a display back; and

the lateral mounting member comprises a bolt that engages a boss in the display back of the flat-panel display, behind the display rim.

35. A mounting system for a flat-panel display in a top cover of a computer, the mounting system comprising:

lateral mounting members extending from the top cover to engage sidewalls of the flat-panel display, wherein the top cover comprises a plastic back, pivotal couplings connecting the top cover to a base unit, and at least one metal bracket that extends from the pivotal couplings, the lateral mounting members engaging at least one metal bracket and the plastic back.

36. A mounting system for a flat-panel display in a top cover of a computer, the mounting system comprising:

lateral mounting members extending from the top cover to engage sidewalls of the flat-panel display, wherein the top cover comprises a plastic back, pivotal couplings connecting the top cover to a base unit, and at least one metal bracket that extends from the pivotal couplings; the lateral mounting members engaging the at least one metal bracket and the plastic back, and, wherein the lateral mounting members comprise bolts that pass through the at least one metal bracket and the plastic back to engage bosses in the flat-panel display.

37. A mounting system for a flat-panel display in a top cover of a computer, the mounting system comprising:

lateral mounting members extending from the top cover to engage the flat-panel display, wherein the top cover comprises a plastic back, pivotal couplings connecting the top cover to a base unit, and at least one metal bracket that extends from the pivotal couplings; the lateral mounting members engaging the at least one metal bracket and the plastic back, wherein the plastic back does not substantially contribute to the rigidity of the top cover.

38. A mounting system for a display in a cover for a base of a computer, the mounting system comprising:

a cover including a back and a sidewall extending around at least a portion of the back, the sidewall having at least one hole extending laterally therethrough, the cover configured for closing over the base of the computer; and

a display including at least one hole formed laterally therein configured for mounting the display in the cover using mounting members engaging at least a portion of the at least one hole of the sidewall of the cover and engaging at least a portion of the at least one hole of the display.

39. The mounting system described in claim 38, further comprising:

a bezel configured for covering a portion of the display.

40. A mounting system for a display for a device comprising:

da display having an active area and having a plurality of sidewalls, the display including a plurality of holes formed laterally in the plurality of sidewalls, the display configured for mounting in a top cover to cover a base of a computer; and

lateral mounting members extending laterally between the top cover and the display, the lateral mounting members engaging the plurality of holes formed laterally in the plurality of sidewalls of the display.

41. The mounting system in claim 40, wherein the lateral mounting members extend through at least two holes of the plurality in one of a sidewall and the plurality of sidewalks of the display.

42. The mounting system in claim 40, wherein the lateral mounting members comprise bolts that engage bosses in the display.

43. The mounting system in claim 40, wherein the top cover comprises:

a back having a sidewall extending around a portion of the back, pivotal couplings connecting the cover to a base unit, and at least one bracket having a portion that extends from the pivotal couplings; and

the lateral mounting members engage portions of the at least one bracket and the back.

44. The mounting system in claim 43, wherein the lateral mounting members comprise thread fasteners configured for passing through the at least one bracket and the back to engage bosses in the display.
45. The mounting system in claim 43, wherein the lateral mounting members comprise pins configured for passing through the at least one bracket and the back to engage bosses in the display.

46. The mounting system in claim 43, wherein the sidewall of the back substantially contributes to the rigidity of the top cover.

47. The mounting system in claim 40, wherein the display comprises:
   a display panel;
   a display rim extending around a perimeter of the display; and
   a display back.

48. The mounting system in claim 47, wherein the lateral mounting members comprise threaded fasteners configured to engage bosses in the display back.

49. The mounting system in claim 47, wherein the lateral mounting members comprise pins configured to engage bosses in the display back of the display, behind the display rim.

50. The mounting system in claim 47, wherein the lateral mounting members comprise pins configured to engage the display and a sidewall of the top cover.

51. The mounting system in claim 40, further comprising:
   a bezel configured for covering a portion of the display.

52. A mounting system for a display in a cover for a base unit of a computer comprising:
   a display panel including an active area, a back, a plurality of sidewalls forming the circumference of the display panel, and a hole extending laterally into a sidewall of the plurality of the display panel;
   a cover including a back and a sidewall extending around a portion of the back, the sidewall having a plurality of holes extending laterally therethrough, the cover covering a base unit of a computer; and
   a plurality of lateral mounting members configured for engaging at least a portion of the plurality of holes in the sidewall of the cover and engaging at least a portion of the plurality of holes of the display panel.

53. The mounting system of claim 52, wherein the lateral mounting member comprises a screw.

54. The mounting system of claim 52, wherein a plurality of edges of the display panel are located within the sidewall extending around a portion of the back of the cover.

55. The mounting system of claim 52, wherein the display panel further comprises:
   a rim extending around the circumference of the display panel, the rim having a plurality of holes therethrough.

56. The mounting system of claim 55, wherein the lateral mounting member comprises a member configured for engaging at least a portion of the hole in the sidewall of the cover, configured for extending through the hole in the rim, and configured for engaging at least a portion of the hole of the display panel.

57. The mounting system of claim 52, wherein the lateral mounting member comprises a threaded fastener.

58. The mounting system of claim 52, wherein the lateral mounting member comprises a pin.

59. The mounting system of claim 52, further comprising:
   a bezel configured for covering a portion of the display panel.

60. A mounting system for a display in a cover for a base unit of a computer comprising:
   a display panel including an active area, a back, a plurality of sidewalls forming the circumference of the display panel, and a plurality of holes extending laterally into the plurality of sidewalls of the display panel;
   a cover including a back and a sidewall extending around a portion of the back, the sidewall having a plurality of holes extending laterally therethrough, the cover covering a base unit of a computer; and
   a plurality of lateral mounting members configured for engaging at least a portion of the plurality of holes in the sidewall of the cover and engaging at least a portion of the plurality of holes of the display panel.

61. The mounting system of claim 60, wherein the plurality of lateral mounting members comprises threaded fasteners.

62. The mounting system of claim 60, wherein the plurality of holes in a plurality of sidewalls of display panel are located within the back of the display panel.

63. The mounting system of claim 60, wherein the display panel further comprises:
   a rim extending around the circumference of the display panel, the rim having a plurality of holes therethrough.

64. The mounting system of claim 63, wherein the plurality of lateral mounting members include each member configured for engaging at least a portion of a hole of the plurality of holes in the sidewall of the cover, configured for extending through a hole of the plurality of holes of the rim, and configured for engaging at least a portion of a hole of the plurality of holes of the display panel.

65. The mounting system of claim 60, wherein the lateral mounting members comprises threaded fasteners.

66. The mounting system of claim 60, wherein the lateral mounting members comprise members engaging a non-threaded hole in the display panel.

67. The mounting system of claim 60, wherein the cover includes a pivot coupling configured to connect the cover to a base unit of a computer, at least one other lateral mounting member, and at least one bracket configured to have a portion extending from a pivot coupling, the at least one other lateral mounting member engaging at least a portion of the at least one bracket.

68. The mounting system of claim 60, wherein the cover includes at least one bracket including at least one pin configured to engage at least a portion of a hole of the plurality of holes extending laterally into a plurality of edges of the display panel.

69. The mounting system of claim 60, further comprising:
   a bezel configured for covering a portion of the display panel.

70. A mounting system for a display in a cover for a base unit of a computer comprising:
   a display panel including an active area, a back, a plurality of sidewalls forming the circumference of the display panel, and a plurality of holes extending laterally into at least two opposed edges of the plurality of sidewalls of the display panel;
   a cover including a back having a sidewall extending around a portion of the back, the sidewall having a plurality of holes extending laterally therethrough, piv-
80. The mounting system of claim 78, wherein the display panel further comprises:

a rim extending around the circumference of the display panel, the rim having a plurality of holes therethrough.

81. The mounting system of claim 78, wherein the plurality of lateral mounting members includes each member configured for engaging a non-threaded hole in the display panel.

82. The mounting system of claim 78, wherein the cover includes a bracket having at least one pin configured to engage at least a portion of a hole of the plurality of holes extending laterally into a plurality of edges of the display panel.

83. The mounting system of claim 78, wherein the plurality of lateral mounting members includes each member configured for engaging a non-threaded hole in the display panel.

78. A mounting system for a display in a cover for a base unit of a computer comprising:

a display panel including an active area, a back, a plurality of sidewalls forming the circumference of the display panel, and a plurality of holes extending laterally into at least two opposed edges of the plurality of sidewalls of the display panel;

a cover including a back having a sidewall extending around a portion of the back, couplings configured to connect the cover to a base unit of a computer for closing thereover, a plurality of brackets, each bracket of the plurality having a hole extending laterally through a portion thereof, each bracket of the plurality configured to have a portion to connect with a portion of the couplings; and

a plurality of lateral mounting members, each lateral mounting member of the plurality configured for engaging at least a portion of a hole of the plurality of holes of the display panel and extending through the one hole in each bracket of the plurality of brackets.

79. The mounting system of claim 78, wherein the plurality of lateral mounting members comprise threaded fasteners.
one second hole in the bracket member for mounting the flat-panel display in the cover.

94. The assembly of claim 93, wherein a bezel may be used to cover a portion of the flat-panel display.

95. The assembly of claim 94, wherein the bezel further includes a portion for abutting a portion of the sidewall of the cover.

96. The assembly of claim 95, wherein the bezel further includes a portion for extending into the cover.

97. The assembly of claim 96, wherein the bezel further includes a portion for extending into the cover to be located between the sidewall thereof and the first portion of the bracket member.

98. The assembly of claim 86, wherein the flat-panel display includes a display panel.

99. The assembly of claim 98, wherein the flat-panel display further includes a rim extending around the display panel and the back.

100. The assembly of claim 86, wherein the flat-panel display includes a display panel and a rim extending around the display panel and the back.

101. A mounting system for a display comprising:

a display panel including an active area, a back, a plurality of sidewalls forming the circumference of the display panel, and a plurality of holes extending laterally into at least two opposed edges of the plurality of sidewalls of the display panel;

a cover including a back having a sidewall extending around a portion of the back, couplings configured to connect the cover to a base unit of a computer for closing thereof, a plurality of brackets, each bracket of the plurality having a hole extending laterally through a portion thereof; each bracket of the plurality configured to have a portion to connect with a portion of the couplings; and

a plurality of lateral mounting members, each lateral mounting member of the plurality configured for engaging at least a portion of a hole of the plurality of holes of the display panel using an interference fit therewith and extending through the one hole in each bracket of the plurality of brackets.

102. The mounting system of claim 101, wherein the plurality of lateral mounting members comprise pins.

103. The mounting system of claim 101, wherein the display panel further comprises:

a rim extending around the circumference of the display panel, the rim having a plurality of holes therethrough.

104. The mounting system of claim 101, wherein the plurality of lateral mounting members includes each member configured for engaging a non-threaded hole in the display panel.

105. The mounting system of claim 101, wherein the cover includes a bracket having at least one pin configured to engage at least a portion of a hole of the plurality of holes extending laterally into a plurality of edges of the display panel.

106. The mounting system of claim 101, wherein the sidewall of the cover includes a sidewall configured to extend around a plurality of sides of the back.

107. The mounting system of claim 101, further comprising:

a bezel configured for covering a portion of the display panel.

108. The mounting system of claim 107, wherein the bezel includes a portion extending between the plurality of brackets.

109. An assembly for mounting a flat-panel display comprising:

a flat-panel display including a back having at least one hole formed laterally therein and a display panel, the flat-panel display secured to at least a portion of a support member by using at least one mounting member extending through a first hole formed laterally through a portion of the support member and engaging at least a portion of the at least one hole of the back of the flat-panel display for mounting the flat-panel display to the support member for mounting the assembly in a cover for a computer.

110. The assembly of claim 109, wherein the support member comprises a member having a first portion extending in a first direction and a second portion extending orthogonally in a second direction therefrom.

111. The assembly of claim 110, wherein the first hole is formed in the first portion of the support member and at least one second hole is formed in the second portion of the bracket member.

112. The assembly of claim 111, wherein the cover includes a sidewall.

113. The assembly of claim 112, wherein the support member comprises a member having a first portion extending in a first direction for extending in the direction of the sidewall of the cover being spaced therefrom and a second portion extending orthogonally in a second direction therefrom.

114. The assembly of claim 113, wherein the support member further includes the first hole located in the first portion and at least one second hole located in the second portion.

115. The assembly of claim 114, further comprising another mounting member for mounting the flat-panel display in the cover.

116. The assembly of claim 115, wherein the another mounting member extends through a hole in the cover and extending into at least a portion of the at least one second hole in the support member for mounting the flat-panel display in the cover.

117. The assembly of claim 109, wherein a bezel may be used to cover a portion of the flat-panel display.

118. The assembly of claim 117, wherein the bezel further includes a portion for abutting a portion of a sidewall of the cover.

119. The assembly of claim 118, wherein the bezel further includes a portion for extending into the cover.

120. The assembly of claim 109, wherein the bezel further includes a portion for extending into the cover to be located between a sidewall thereof and a first portion of the support member.

121. The assembly of claim 109, wherein the flat-panel display further includes a rim extending around the display panel and the back.

122. An assembly for mounting a flat-panel display comprising:

a flat-panel display including a back having at least one hole formed laterally therein and a display panel, the
flat-panel display secured to at least a portion of a member attached to the back by using at least one mounting member extending through a first hole formed laterally through a portion of the member and engaging at least a portion of the at least one hole of the back of the flat-panel display for mounting the flat-panel display to the member.

123. The assembly of claim 122, wherein the member has a first portion extending in a first direction and a second portion extending orthogonally in a second direction therefrom.

124. The assembly of claim 123, wherein the first hole is formed in the first portion of the member and at least one second hole is formed in the second portion of the member.

125. The assembly of claim 124, further comprising a cover including a sidewall.

126. The assembly of claim 125, wherein the member has a first portion extending in a first direction for extending in the direction of the sidewall of the cover being spaced therefrom and a second portion extending orthogonally in a second direction therefrom.

127. The assembly of claim 126, wherein the member further includes the first hole located in the first portion and at least one second hole located in the second portion.

128. The assembly of claim 127, further comprising another mounting member for mounting the flat-panel display in the cover.

129. The assembly of claim 128, wherein the another mounting member extends through a hole in the cover and extending into at least a portion of the at least one second hole in the member for mounting the flat-panel display in the cover.

130. The assembly of claim 122, wherein a bezel may be used to cover a portion of the flat-panel display.

131. The assembly of claim 130, wherein the bezel further includes a portion for abutting a portion of a sidewall of a cover.

132. The assembly of claim 131, wherein the bezel further includes a portion for extending into the cover.

133. The assembly of claim 122, wherein the bezel further includes a portion for extending into a cover to be located between a sidewall thereof and a first portion of the member.

134. The assembly of claim 122, wherein the flat-panel display further includes a rim extending around the display panel and the back.

135. An assembly for mounting a flat-panel display comprising:

a flat-panel display including a back having at least one hole formed laterally therein and a display panel, the flat-panel display secured to at least a portion of a support member by using at least one mounting member extending through a first hole formed laterally through a portion of the support member and engaging at least a portion of the at least one hole of the back of the flat-panel display for mounting the flat-panel display to the support member for mounting the assembly in a back covering a portion of the flat-panel display.

136. The assembly of claim 135, wherein the support member comprises a member having a first portion extending in a first direction and a second portion extending orthogonally in a second direction therefrom.

137. The assembly of claim 136, wherein the first hole is formed in the first portion of the support member and at least one second hole is formed in the second portion of the support member.

138. The assembly of claim 135, wherein the back includes a sidewall.

139. The assembly of claim 138, wherein the support member comprises a member having a first portion extending in a first direction for extending in the direction of the sidewall of the back being spaced therefrom and a second portion extending orthogonally in a second direction therefrom.

140. The assembly of claim 139, wherein the support member further includes the hole located in the first portion and at least one second hole located in the second portion.

141. The assembly of claim 140, further comprising another mounting member for mounting the flat-panel display in the back covering a portion of the flat-panel display.

142. The assembly of claim 141, wherein the another mounting member extends through a hole in a cover and extending into at least a portion of the at least one second hole in the support member for mounting the flat-panel display in the back covering a portion of the flat-panel display.

143. The assembly of claim 135, wherein a bezel may be used to cover a portion of the flat-panel display.

144. The assembly of claim 143, wherein the bezel further includes a portion for abutting a portion of a sidewall of a back member covering a portion of the flat-panel display.

145. The assembly of claim 144, wherein the bezel further includes a portion for extending into the back member covering a portion of the flat-panel display.

146. The assembly of claim 135, wherein the bezel further includes a portion for extending into a back member covering a portion of the flat-panel display located between a sidewall of the back member and a first portion of the support member.

147. The assembly of claim 135, wherein the flat-panel display further includes a rim extending around the display panel and the back covering a portion of the flat-panel display.

148. An assembly for mounting a flat-panel display comprising:

a flat-panel display including a back having at least one hole formed laterally therein and a display panel, the flat-panel display secured to at least a portion of a support member attached to the back by using at least one mounting member extending through a first hole formed laterally through a portion of the support member and engaging at least a portion of the at least one hole of the back of the flat-panel display for mounting the flat-panel display to the support member.

149. The assembly of claim 148, wherein the support member has a first portion extending in a first direction and a second portion extending orthogonally in a second direction therefrom.

150. The assembly of claim 149, wherein the first hole is formed in the first portion of the support member and at least one second hole is formed in the second portion of the support member.

151. The assembly of claim 148, further comprising a back member for covering a portion of the flat-panel display which includes a sidewall.
152. The assembly of claim 151, wherein the support member has a first portion extending in a first direction for extending in the direction of the sidewall of the back member for covering a portion of the flat-panel display being spaced therefrom and a second portion extending orthogonally in a second direction therefrom.

153. The assembly of claim 148, wherein a bezel may be used to cover a portion of the flat-panel display.

154. The assembly of claim 153, wherein the bezel further includes a portion for abutting a portion of a sidewall of a back member for covering a portion of the flat-panel display.

155. The assembly of claim 154, wherein the bezel further includes a portion for extending into the back member for covering a portion of the flat-panel display.

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