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(54) **REDUCED-LENGTH, LOW-PROFILE USB
DEVICE AND CARD-LIKE CARRIER**

Publication Classification

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(57) **ABSTRACT**

A USB device in which all of the devices ICs are located on a lower surface of a PCB (i.e., opposite to the metal contacts) to minimize the device's thickness, and at least one of the ICs is positioned on a relatively narrow portion of the USB plug to minimize the device's length. A card-like carrier for protecting the USB device when not in use includes a frame-like base portion having peripheral walls surrounding a relatively wide main chamber, and an end portion that is attached to the base portion and includes end walls that define a relatively narrow slot communicating with the main chamber. The USB device plug structure is inserted through the main chamber into the slot until a front edge of the handle structure abuts the end walls, and then the device is rotated downward into the main chamber.

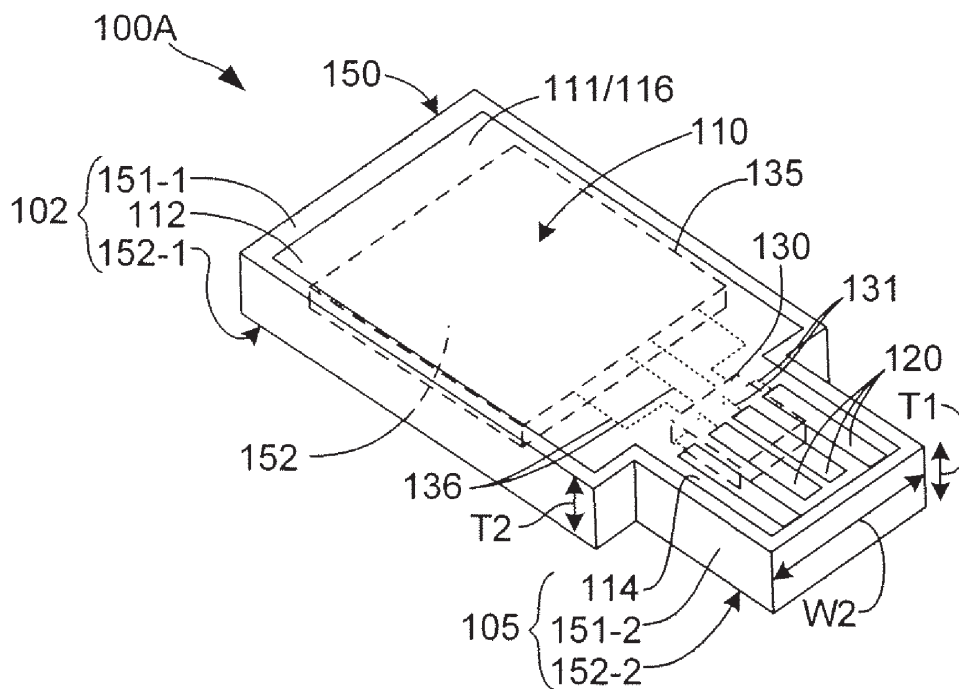
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Related U.S. Application Data

(62) Division of application No. 11/257,575, filed on Oct. 24, 2005.



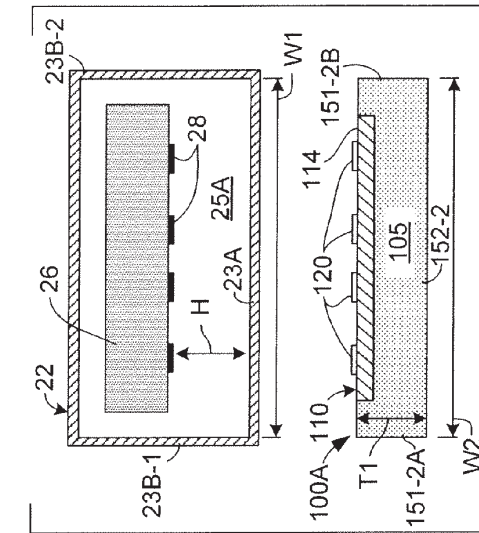


FIG. 2(A)

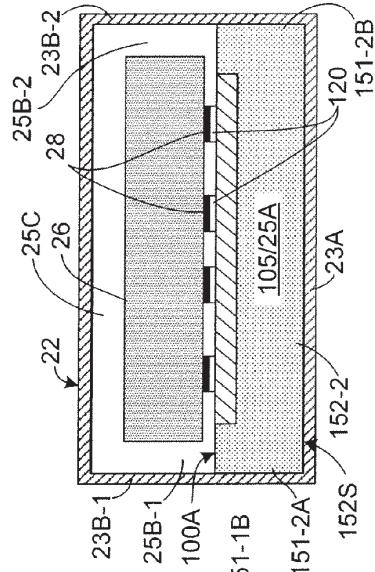


FIG. 2(B)

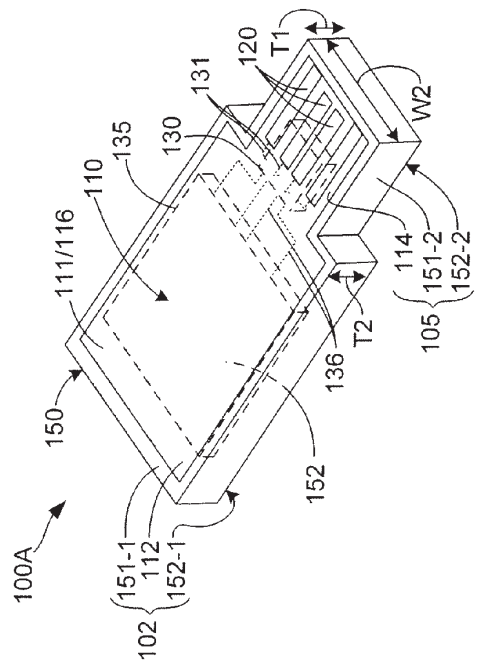


FIG. 1(A)

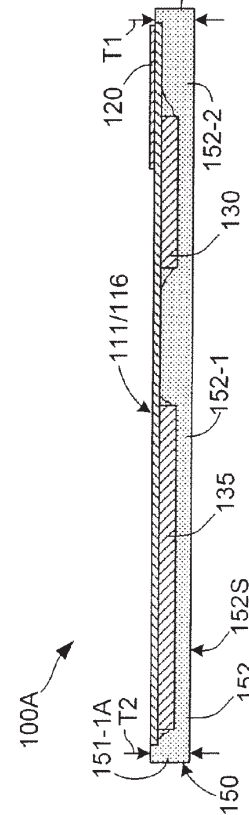


FIG. 1(B)

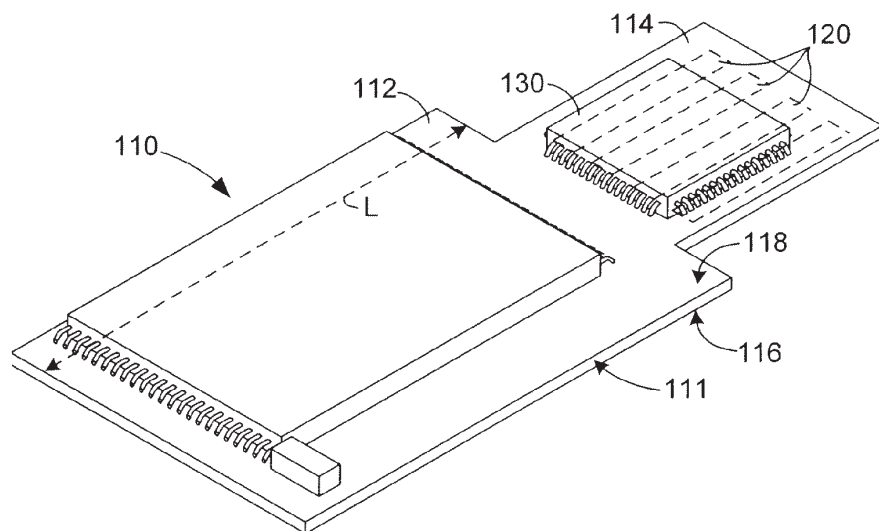


FIG. 3(A)

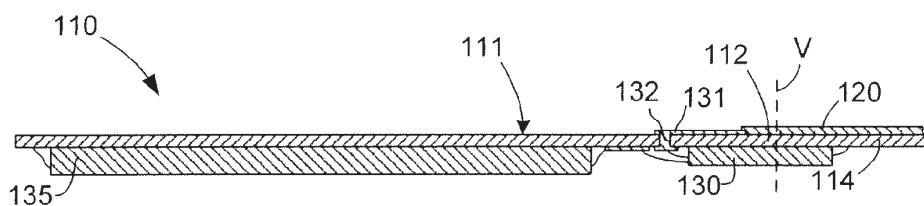


FIG. 3(B)

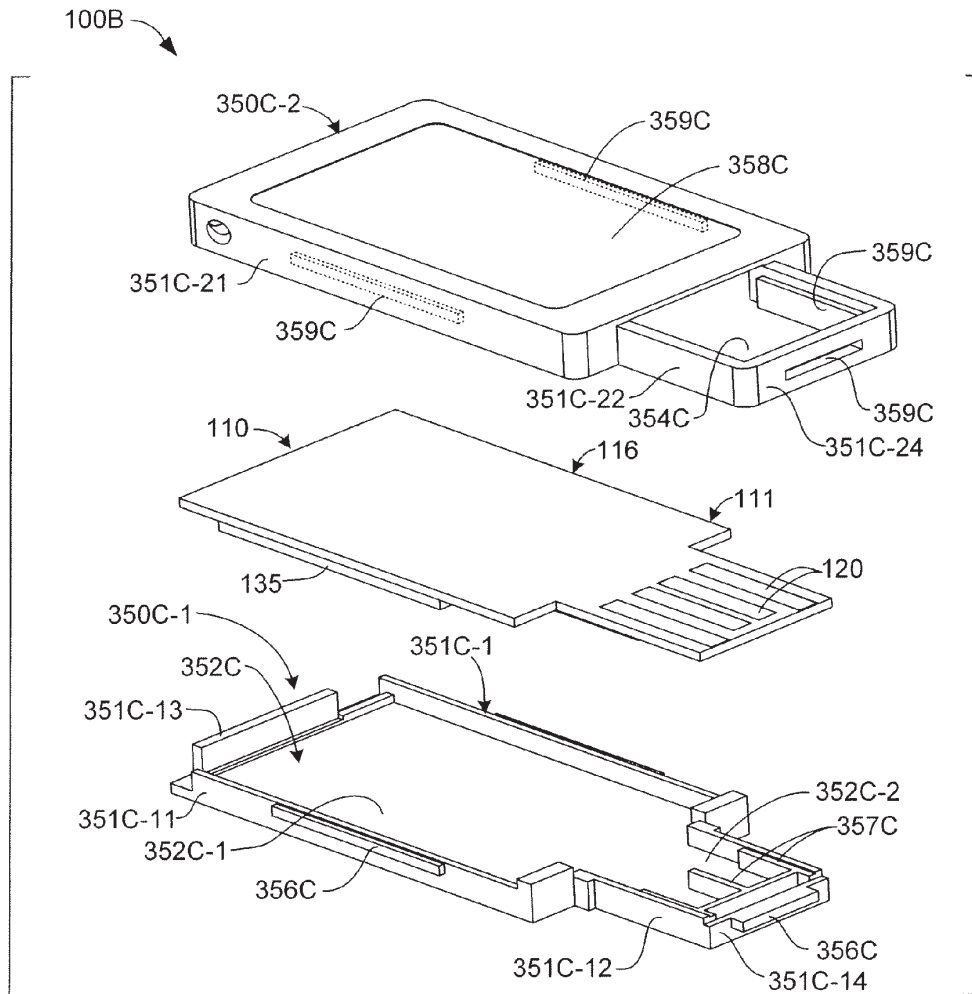


FIG. 4(A)

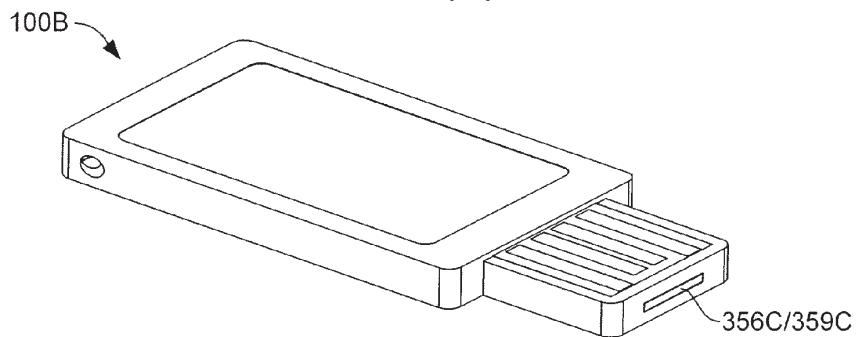


FIG. 4(B)

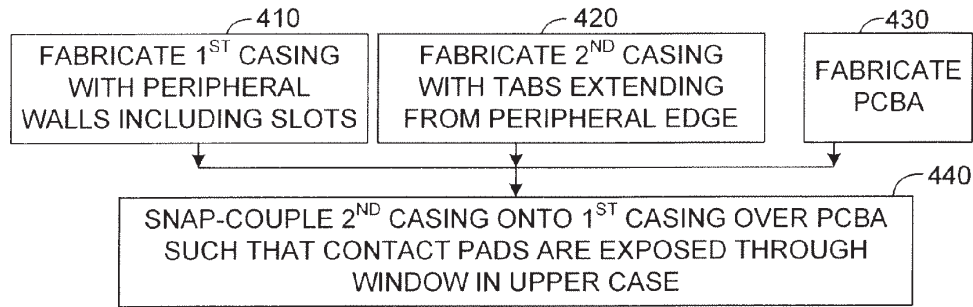


FIG. 5

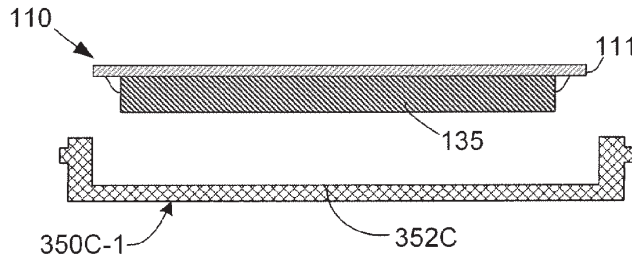


FIG. 6(A)

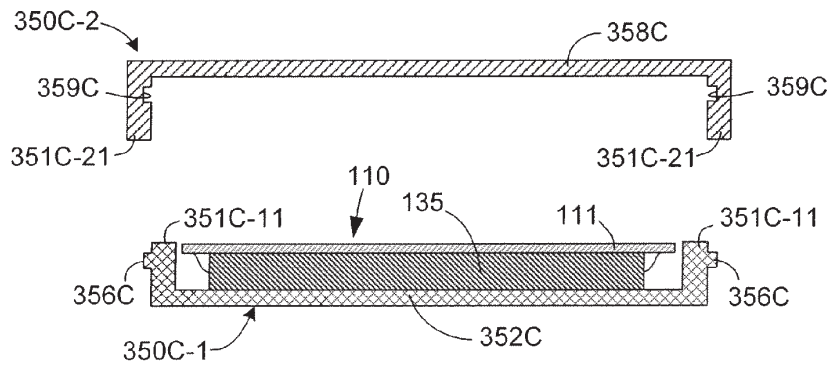


FIG. 6(B)

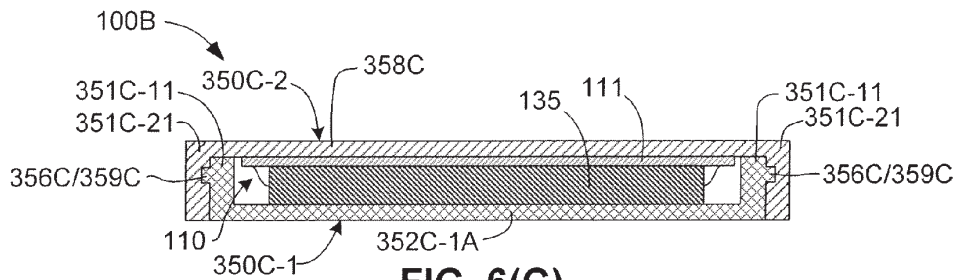


FIG. 6(C)

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