PNY Technologies, Inc.

EXHIBIT 1005

(12) **United States Patent**   (10) **Patent No.:**   **US 7,074,052 B1**

Ni et al.   (45) **Date of Patent:**   **Jul. 11, 2006**

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(54) **USB DEVICE WITH CASE HAVING INTEGRATED PLUG SHELL**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(51) **Int. Cl.**
H01R 12/00 (2006.01)

(52) **U.S. Cl.** **439/76.1**; 439/951; 174/261; 361/752; 29/830; 29/876

(58) **Field of Classification Search** 439/59, 439/61, 64, 76.1, 79, 660, 951; 174/255, 174/261; 361/752; 29/830, 832, 842, 876
See application file for complete search history.
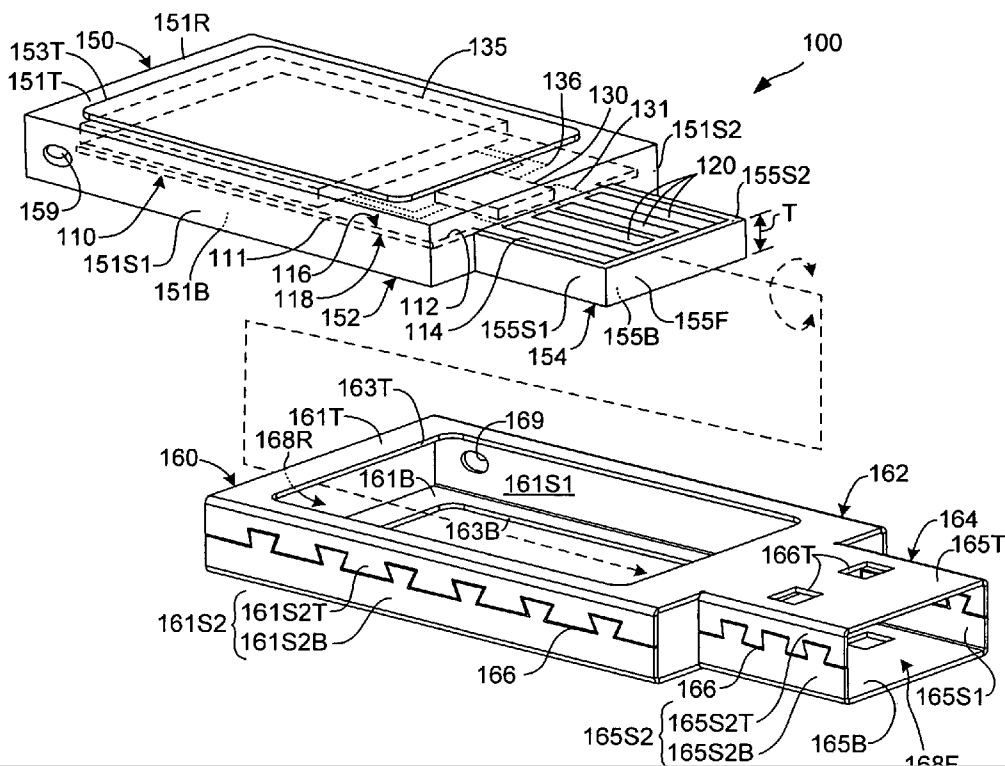
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(57) **ABSTRACT**

A Universal-Serial-Bus (USB) device includes a PCBA mounted inside a plastic housing, which in turn is inserted or otherwise secured inside an outer case. The case is made of metal or hard plastic, and includes a handle portion that is integrally connected to a plug shell. The plug shell extends over a plug portion of the PCBA, which is mounted on a corresponding substrate portion of the housing, forming a structural arrangement similar to a conventional male USB connector plug, but without having the plug shell soldered to the PCBA. The case is, for example, sheet metal that is folded into a frame-like box for receiving the housing. The handle portion engages a cover portion of the housing such that plastic panels are exposed through openings formed in the metal casing walls.
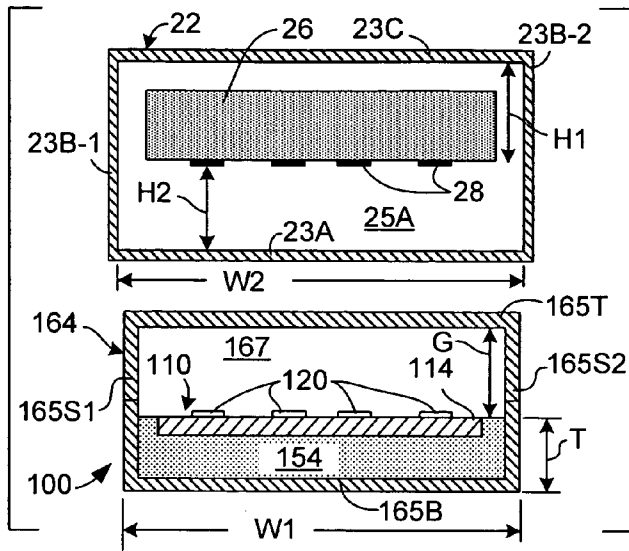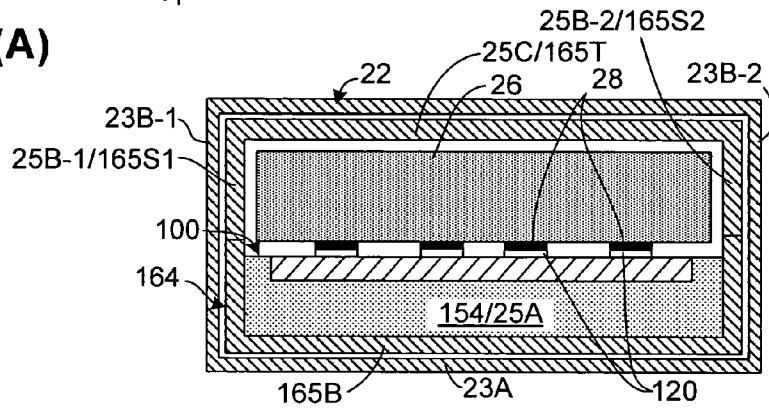
16 Claims, 11 Drawing Sheets

FIG. 1

FIG. 2

FIG. 3

FIG. 4(A)

FIG. 4(B)

FIG. 5(A)

FIG. 5(B)

DOCKET ALARM
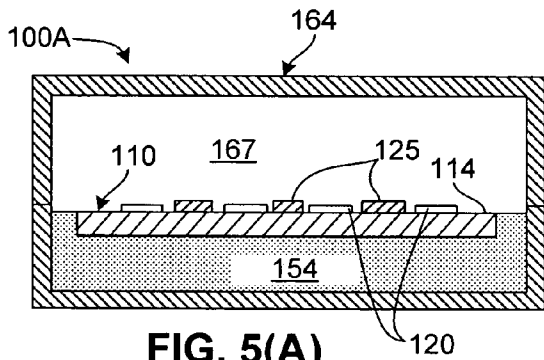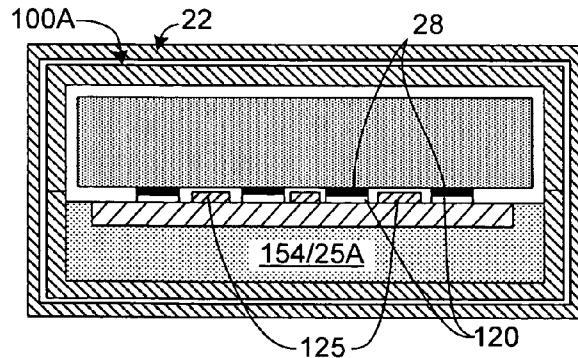
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