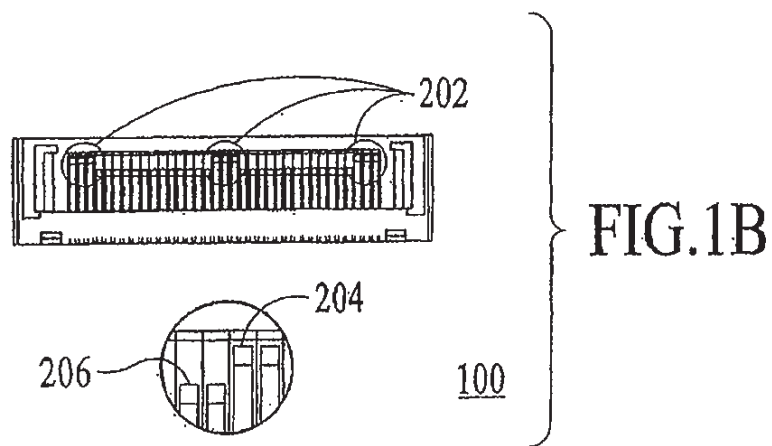
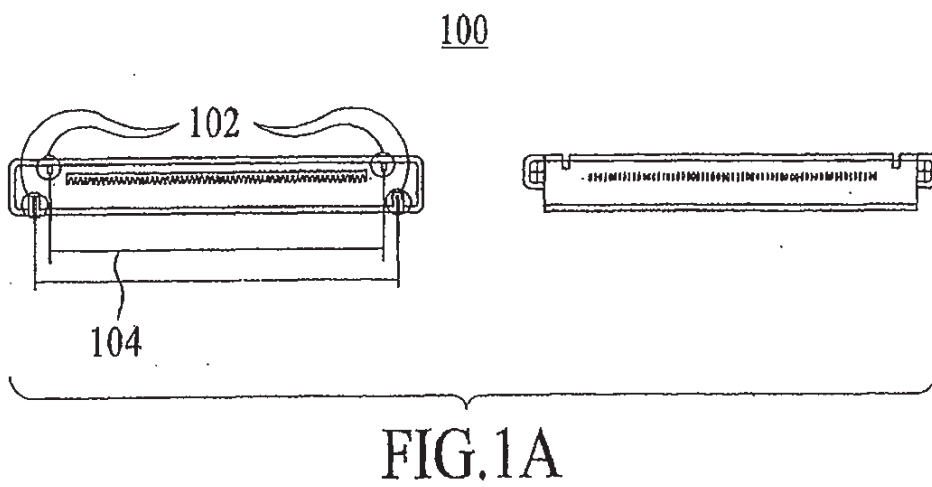
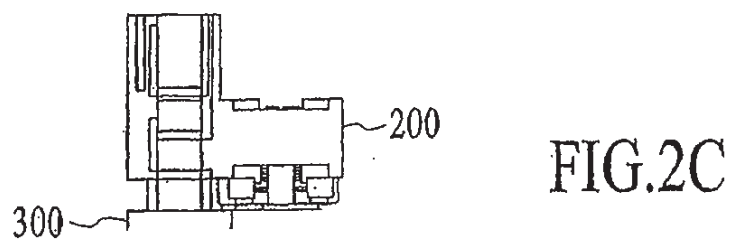
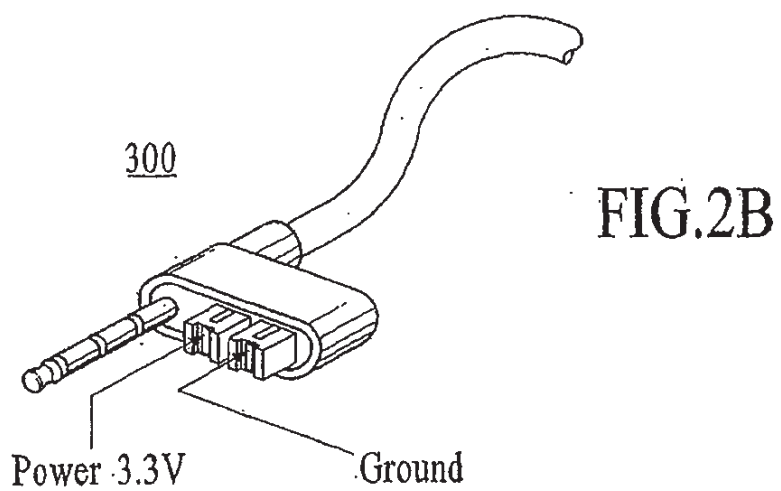
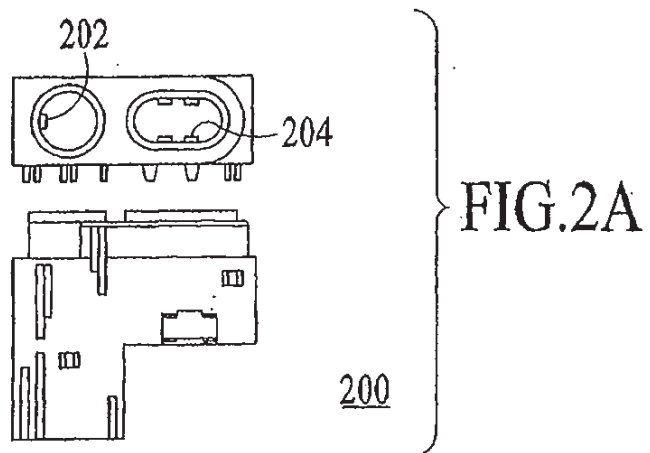






| PIN | Signal Name        | I/O | Function                                         |
|-----|--------------------|-----|--------------------------------------------------|
| 1   | DGND               | GND | Digital Ground                                   |
| 2   | DGND               | GND | Digital Ground                                   |
| 3   | TPA+               | I/O | FireWire signal                                  |
| 4   | USB D+             | I/O | USB signal                                       |
| 5   | TPA-               | I/O | FireWire signal                                  |
| 6   | USB D-             | I/O | USB signal                                       |
| 7   | TPB+               | I/O | FireWire signal                                  |
| 8   | USB PWR            | I   | USB power in; used to detect USB hub             |
| 9   | TPB-               | I/O | FireWire signal                                  |
| 10  | Accessory Identify | I   | Connection for accessory identification resistor |
| 11  | F/W PWR+           | I   | Firewire and charger input power (8V to 15V dc)  |
| 12  | F/W PWR+           | I   | Firewire and charger input power (8V to 15V dc)  |
| 13  | Accessory Pwr      | O   | Nominal 3.3V output; current limited to 100 mA   |
| 14  | Reserved           |     |                                                  |
| 15  | DGND               | GND | Digital Ground                                   |
| 16  | DGND               | GND | Digital Ground                                   |
| 17  | Reserved           |     |                                                  |
| 18  | RX                 | I   | Serial protocol input to media player            |
| 19  | TX                 | O   | Serial protocol output from media player         |
| 20  | Accessory Detect   | I   | Connection for accessory identification resistor |
| 21  | S Video Y          | O   | Luminance component for S-video                  |
| 22  | S Video C          | O   | Chrominance component for S-video                |
| 23  | Composite Video    | O   | Composite video signal                           |
| 24  | Remote sense       | I   | Detect remote                                    |
| 25  | LINE-IN L          | I   | Line level input for left audio channel          |
| 26  | LINE-IN R          | I   | Line level input for right audio channel         |
| 27  | LINE-OUT L         | O   | Line level output to left audio channel          |
| 28  | LINE-OUT R         | O   | Line level output to right audio channel         |
| 29  | Audio Return       | --- | Signal, not to be grounded in accessory          |
| 30  | DGND               | GND | Digital ground                                   |
| 31  | Chassis            |     | Chassis ground for connector shell               |
| 32  | Chassis            |     | Chassis ground for connector shell               |

FIG. 3A

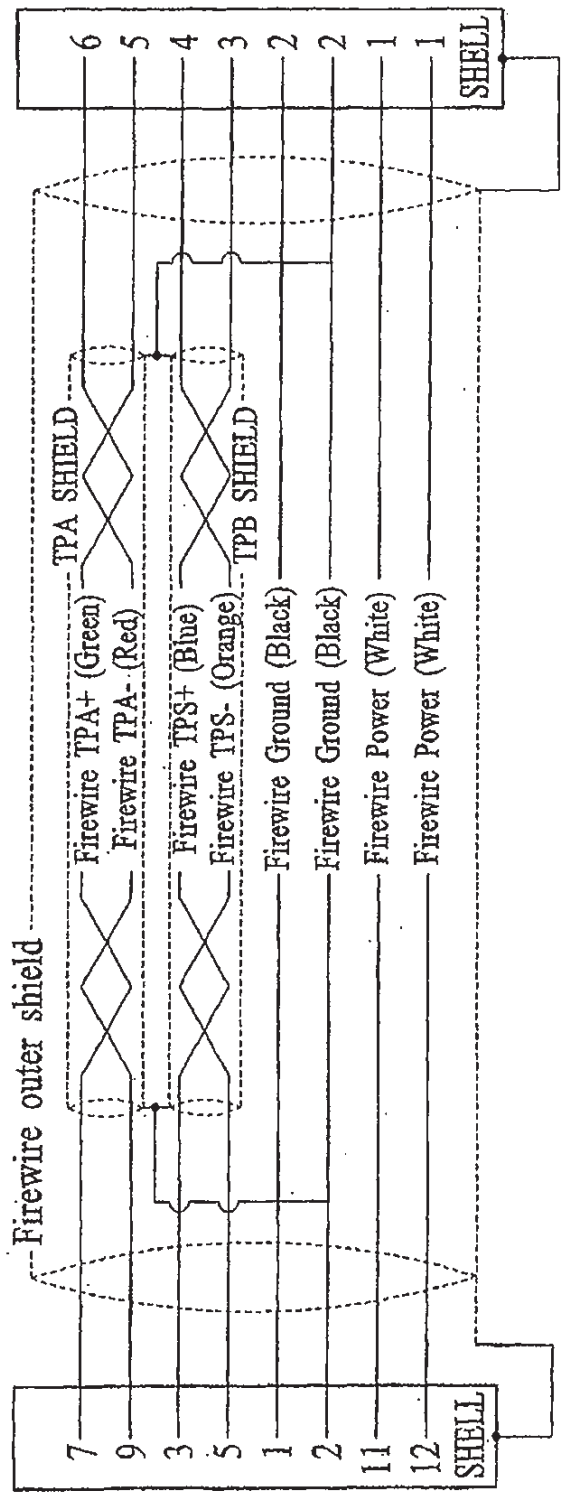


FIG.4A

| Pin | Signal name                  | I/O | Function                                                 |
|-----|------------------------------|-----|----------------------------------------------------------|
| 1   | Audio Out Left / Mono Mic In | I/O | 30mW audio out left channel, also doubles as mono mic in |
| 2   | HP Detect                    | I   | Internal Switch to detect plug insertion                 |
| 3   | Audio Return                 | GND | Audio return for left and right audio                    |
| 4   | Audio Out Right              | O   | 30mW audio out right channel                             |
| 5   | Composite Video              | O   | Video Signal                                             |
| 6   | Accessory 3.3V               | O   | 3.3V Accessory power 100mA max                           |
| 7   | Tx                           | O   | Serial protocol (Data from iPod to Device)               |
| 8   | Rx                           | I   | Serial protocol (Data to iPod from Device)               |
| 9   | D GND                        | GND | Digital ground for accessory                             |

FIG.3B

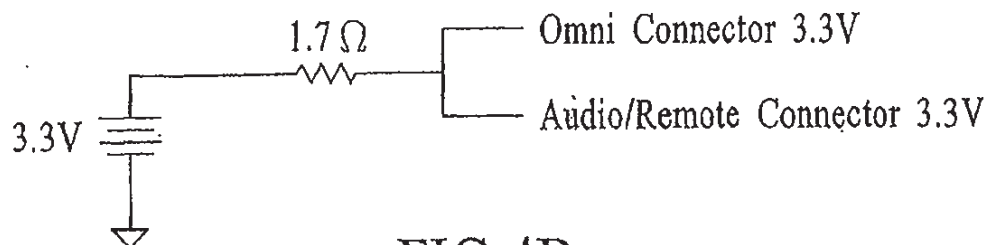


FIG.4B

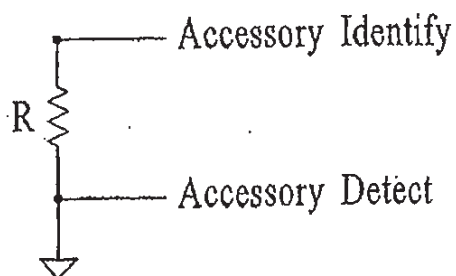


FIG.4C

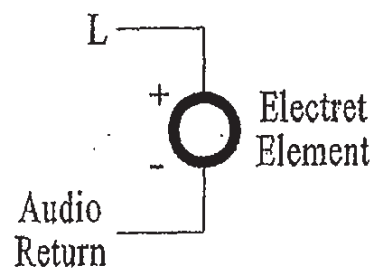


FIG.4D

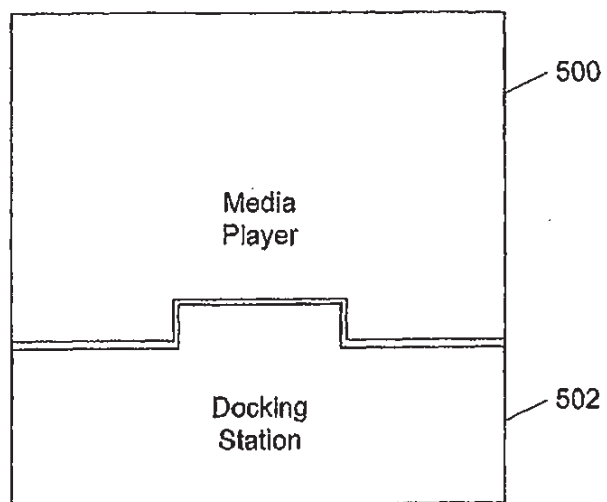


Fig. 5A

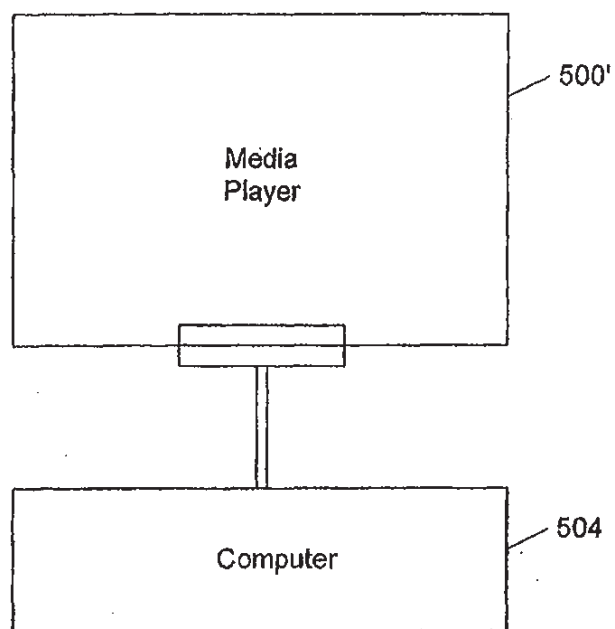


Fig. 5B

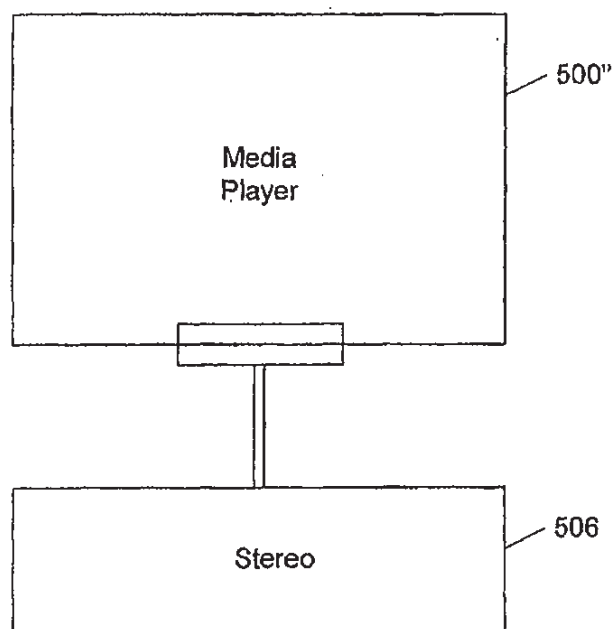


Fig. 5C

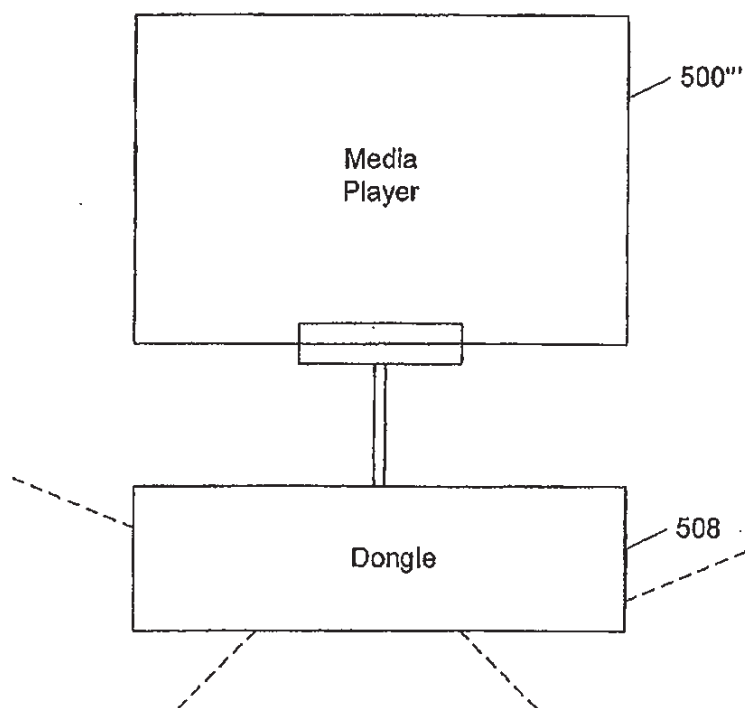


Fig. 5D

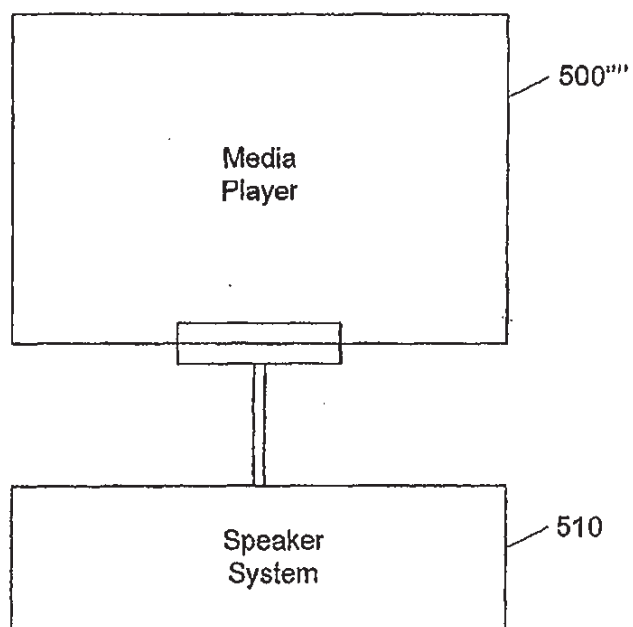
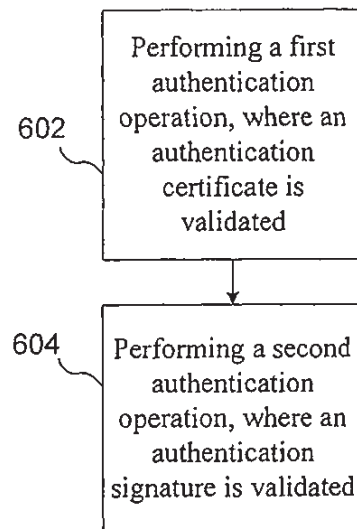
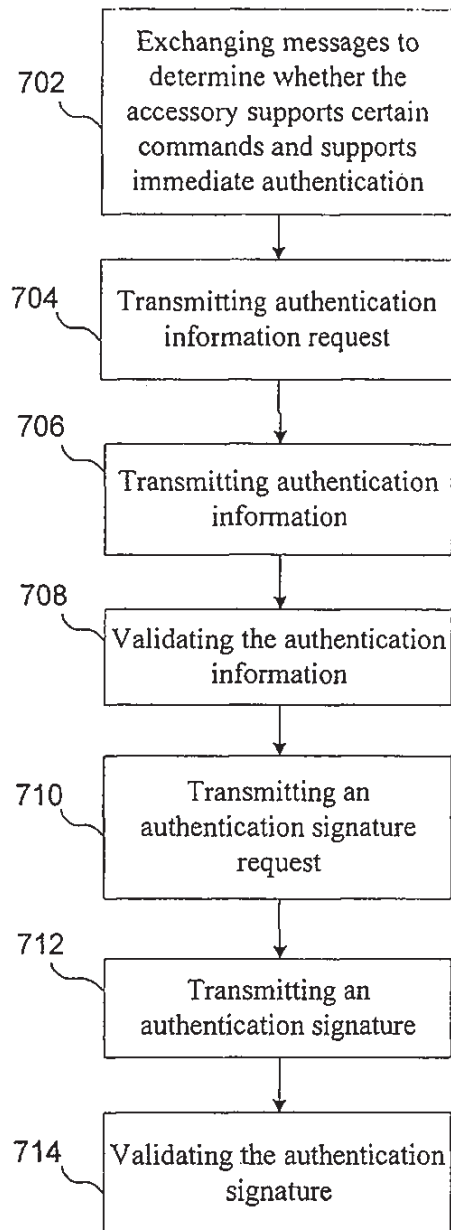


Fig. 5E

**FIG. 6**

**FIG. 7**