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Detachable Connector Hub in a Display

Abstract: A removable connector hub box on the rear of a display provides easy access to the external cables connected to the display with minimal or no repositioning of the display.

This disclosure relates to the field of displays.

A technique is disclosed that provides easier access to connectors of a display by disposing the connectors in a detachable hub box which can be taken out from the backside of the display to access the connectors, and then put back in its original location on the display.

Currently, in most displays, connectors such as for example USB ports, HDMI/DP, Audio jack, and other functions are all disposed on the rear of the display, to simplify the appearance of the product. However, it can be inconvenient for a user to access these connectors to connect or disconnect various cables to or from the display. To do so, the customer must often turn the display around and locate the appropriate connector. If the display is large and/or heavy, or if the display is positioned in a small space, cable connection or disconnection can be quite difficult.

According to the present disclosure, and as understood with reference to the Figure, the display connectors (not shown) are disposed in a connector hub box 10. The hub box 10 is communicatively coupled to the main board inside the display 20, such as for example by a cable (not shown), for data transfer between the cables and the display 20. The hub box 10 is held tightly to the rear side 30 of display 20 by fastening means, such as, for example, hook snaps or magnets, while also being easily removable from the display 20 by a user.

When the user desires to connect one or more cables to, or disconnect them from, the display 20, he or she unfastens the hub box 10 from the display 20. After the hub box 10 has been disengaged from the display 20, the user can move the box 10 away to a conveniently accessible location, such as for example by flipping the hub box 10 around towards the front of the display 20, to provide easy access for connecting or disconnecting the cables from hub box 10 without turning the display 20 itself around. When cable manipulation is complete, the user reattaches the hub box 10 to the rear side 30 of the display 20 by the fastening means.

The disclosed technique advantageously provides easy access to display cabling without requiring the user to move or turn the display.

Disclosed by Feng Chen, HP Inc.

