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DISPLAY LOCATION RELATIVE TO OTHER DEVICES TO ENABLE AUTOMATIC SCREEN SHARING AND DISPLAY EXTENSIONS

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Display Location Relative to Other Devices to Enable Automatic Screen Sharing and Display Extensions

Abstract: A wireless technology such as Bluetooth is utilized to allow automatic flow of screens or sharing among displays and accessories without the need for the user to set up the configuration.

This disclosure relates to the field of user interfaces.

A technique is disclosed that utilizes Bluetooth or other wireless methods to have displays and accessories to allow automatic flow of screens or sharing without the need for the user to set up the configuration.

When using multiple devices with multiple displays it can be confusing or difficult to set up the extended screen, especially if there are multiple locations to which the user connects. Up to now, the user would need to use the display setup in the OS to assign a location for the display.

According to the present disclosure, and as understood with reference to the Figure, a wireless device (such as Bluetooth 5.1) is placed in the notebook computer 10, mouse 15, keyboard 20, and each display 30 or accessory 35. The wireless device of each provides a signal 40 whose location can be calculated to provide a relative location with respect to other attached displays 30 or accessories 35. The location information is used to automatically flow mouse cursors, wallpapers, and work in a logical manner without the need for complex configuration setups. It allows stacked (vertical) screen extensions 50 and horizontal screen extensions 55, and automatically changes if the displays 30 and/or notebook 10 are moved to a different location.

The disclosed technique advantageously provides a logical work flow and easy mouse cursor flow. It also enables magical drag-and-drop functionality to accessory devices, including digital frames and audio devices, as well as displays.

Disclosed by Michael Delpier, HP Inc.

