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Wireless device for casting content to available screens

ABSTRACT

This disclosure describes a device designed to allow content from a first screen to be wirelessly displayed on a second screen. The device is a wireless mouse-like device that communicates with a monitor or screen. The device is equipped with a first button to select content and to turn on screens by communicating with an infrared receiver in the monitor. A second button on the device is configured to select and move content from one screen to another. The device allows for efficient and quick viewing of content on a larger screen and enables any available monitor to act as a large screen in a meeting or entertainment setting.

KEYWORDS

- Wireless mouse
- Infrared communication
- Content casting
- Meeting room

BACKGROUND

Large screens are commonly preferred for viewing presentation content in meeting settings, for viewing entertainment content, etc. Such content is sometimes stored on a device with a small screen, such as a laptop computer, a mobile phone, etc. This can be redressed by providing an option to the presenter of moving information and/or content from one screen to a detached screen (for example, a monitor separate from the presenter device), and providing the ability to point a device at the screen to unlock the screen, and drag content of the device screen to the monitor.

DESCRIPTION

This disclosure describes a device that can allow contents of a screen to be displayed on another screen. The device is a wireless mouse-like device that can be pointed at a monitor to turn the monitor on and enables users to move or mirror content from a screen of a user device to the monitor.

The device has two buttons, a first button to click and another to right click. The device is additionally configured with the capability of infrared interaction with an available monitor.

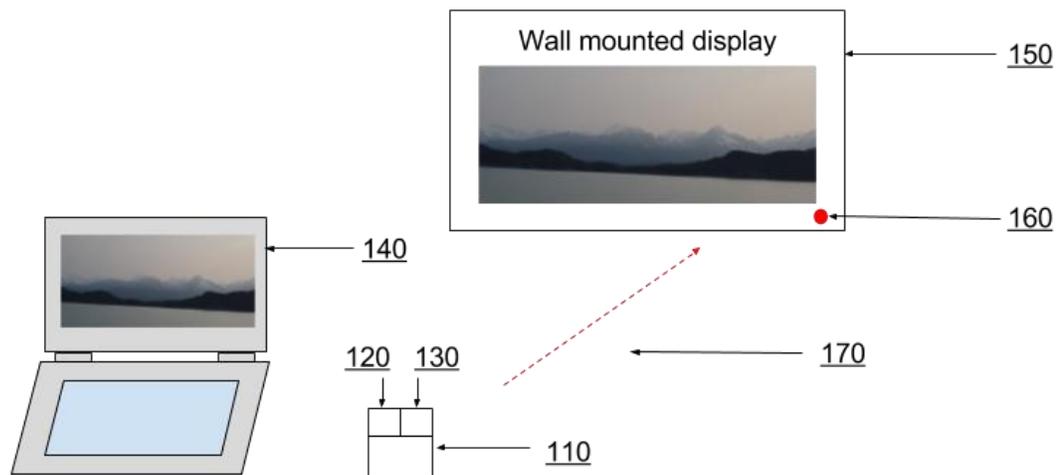


Fig. 1: Content from one screen displayed on another screen

Fig. 1 illustrates the functioning of the device (110) of this disclosure. In this illustrative example, the device has two buttons, a first button (120), and a second button (130) to enable selection of options. A presenter device, e.g., laptop computer (140) includes content that is to be displayed on a larger screen or monitor, such as a wall mounted display (150) in this example.

The clicking button (120) is configured for the selection of content when the button is clicked. The clicking button can be configured to activate (turn on) monitors that are fit to receive a wireless signal, e.g., an infrared signal from the device. An infrared receiver (160) operates on the wall mounted display to communicate with the device. The second button (130)

highlights content (for example, text, images, etc.) and/or moves it to the second screen, where it is dropped and is displayed.

Communication between the device and the wall mounted display occurs wirelessly (170) using a suitable protocol, and uses infrared or other wireless technology. The displayed content can be viewed until it is deleted, can be configured to self-erase after a predetermined interval, can be replaced by other content, etc. In this example, the device is used to cause the image from the laptop computer to be displayed on the wall mounted display, for easier viewing.

The device enables a presenter to present on any available screen and improves mobility (e.g., by not being limited to designated presentation rooms). The device can be used in meeting rooms. The device can also enable users to cast content such as streaming video, still images, text, etc. to a monitor by dragging the content (or a portion of the content) to the monitor. The device described in this disclosure enables any monitor to be used as a streaming device and also enables meetings to be held anywhere there is a monitor available.

CONCLUSION

This disclosure described a mouse-like device that communicates wirelessly with a monitor or screen. The device is equipped with buttons to select content and activate monitor screens by using infrared communication. The device enables selection and drag-drop of content from one screen to another screen. The device allows efficient and quick viewing of content on any available screen.