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(54) Title of the invention : PEN-SHAPED WIRELESS MOUSE WITH BALL-BEARING MECHANISM FOR SURFACE-FREE CURSOR CONTROL AND PRESENTATION NAVIGATION

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(57) Abstract :
 PEN-SHAPED WIRELESS MOUSE WITH BALL-BEARING MECHANISM FOR SURFACE-FREE CURSOR CONTROL AND PRESENTATION NAVIGATION ABSTRACT The Pen-Shaped Wireless Mouse introduces a compact, ergonomic solution for seamless cursor control and presentation navigation without the need for a flat surface. This innovative device utilizes a ball-bearing mechanism, positioned in front of a light sensor, to detect movement and control the cursor through wireless communication via Bluetooth. Integrated left-click, right-click, and scrolling buttons allow for versatile interaction with applications, while an optional laser pointer enhances its utility for presentations. The device is powered by either a 3-volt coin cell battery or a rechargeable lithium polymer battery, providing extended use. Designed to resemble a marker for easy in-hand operation, the pen-shaped mouse is ideal for presenters, educators, and professionals seeking convenience and efficiency. With additional features such as DPI adjustment and an encoder for scrolling, this device addresses the limitations of traditional mice and slide changers, offering an all-in-one, surface-free navigation tool.

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