

front of the 3D touch panel (FIG. 3). An input device 3 designed in this way allows the operating position/input position to be determined as with a conventional touch screen, along with the position depth (pressure strength). In other words, with the corresponding software this results in a specific function being triggered. The touch screen is hereby suitable for 3D inputs.

[0021] Furthermore, a digital and an analog function can be separately evaluated and simultaneously controlled by means of the input device, with each function using position-oriented parameters and/or parameters relating to position depth.

[0022] FIG. 4 illustrates an input device as an exemplary application, with a slider 14 being able to be controlled on an axis 15 by means of this input device. Two keys 12, 13 are visible on the display 11, said keys assigning the functions for moving the slider 14 in two directions in each case. Here the key 12 is responsible for the movement in the direction "+", whilst the key 13 is responsible for the direction "-". The displacement speed of the slider 14 is additionally influenced by the pressure intensity on the keys 12, 13. If a user holds an input pen 6 on the key 12 on the display, the slider 12 is moved in direction "+". The user can then speed up the movement of the slider 12 using a pressure towards the surface of the display (Z-dimension). The harder he/she presses key 12, the faster the slider 14 moves. During the control, digital information is given for instance for the movement direction of the axis and analog information for the speed of the axis.

[0023] At the same time, a perspective simulation of the slider 4 and of the axis 5 can be graphically demonstrated on the display 1.

[0024] In summary, the invention thus relates to an input device with a flexible display means and a three-dimensional sensitive layer for acquiring inputs. The display means of the input device is advantageously very thin, pliable and energy-saving. The three-dimensional sensitive layer is embedded behind the display means as a 3D touch panel. Inputs on the display means can thus be sensitively identified on a three-dimensional basis and implemented.

1-4. (canceled)

5. An input device for acquiring analog and digital input, comprising:

a three-dimensional sensitive layer for acquiring inputs; and

a flexible display arranged in front of the three-dimensional sensitive layer.

6. The input device as claimed in claim 5,

wherein the three-dimensional sensitive layer is electrically conductive, and

wherein the conductivity of the layer is based on a pressure exerted on the layer.

7. The input device as claimed in claim 5, wherein the three-dimensional sensitive layer is deformable.

8. The input device as claimed in claim 5, wherein the display comprises organic light-emitting diodes.

9. The input device as claimed in claim 8, wherein the three-dimensional sensitive layer is deformable.

10. The input device as claimed in claim 9, wherein the three-dimensional sensitive layer is electrically conductive, and wherein the conductivity of the layer is based on a pressure exerted on the layer.

11. An input device for acquiring analog and digital input, comprising:

a three-dimensional sensitive layer for acquiring inputs;

a flexible display arranged in front of the three-dimensional sensitive layer; and

a plurality of organic light-emitting diodes arranged in the flexible display.

12. The input device as claimed in claim 11,

wherein the three-dimensional sensitive layer is electrically conductive, and

wherein the conductivity of the layer is based on a pressure exerted on the layer.

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