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(54) **SCANNING OF A TOUCH SCREEN**

(57) **ABSTRACT**

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A user interface for receiving input commands in a mobile terminal includes a display device (D) for presenting visual information. Arrays of light sources (131, 132) and arrays of light detectors (141, 142) are arranged along respective first and second sides of the display device (D). Each array of light sources (131, 132) is configured to transmit light pulses (Λ_{em_x} , Λ_{em_y}) over the display device (D), and each array of light detectors (141, 142) is configured to receive a part (Λ_{in} , Λ_{in_y}) of the energy in the transmitted light pulses (Λ_{em_x} , Λ_{em_y}). A processing unit (110) controls the light sources (131, 132) such that a respective light pulse (Λ_{em_x} , Λ_{em_y}) is repeatedly transmitted from each source (LX_1, \dots, LX_n ; LY_1, \dots, LY_m) in the arrays according to a predefined sequence. However, prior to transmitting the light pulse (Λ_{em_x} , Λ_{em_y}), an initial measurement value (V_1) registered by at least one detector (D_{ph}) in the at least one array of light detectors (141, 142) is recorded. Thus, the initial measurement value (V_1) represents an ambient light intensity. Based on the initial measurement value (V_1) and a secondary measurement value (V_2) registered by at least one light detector (D_{ph}) during emission of light from the light source (D_{em}), the processing unit (110) determines whether or not a light-obstructive object is present on the display device (D) between a given light source (D_{em}) in the arrays of light sources (131, 132) and at least one light detector (D_{ph}) in the at least one array of light detectors (141, 142).

