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## United States Patent [19]

#### Pisutha-Arnond

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[54]	INTUITIVE GESTURE-BASED GRAPHICAL
	USER INTERFACE

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[21] Appl. No.: 711,236

[22] Filed: Sep. 9, 1996

[51] Int. Cl.<sup>6</sup> ...... G06F 15/00

348, 349, 352, 353, 358, 354

[56] References Cited

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OTHER PUBLICATIONS

Evan Graham, DSI Datotech Systems, Inc., "White Paper Dato Patented Pointing Gesture System", Aug. 1996, pp. 1–20.

Primary Examiner—Matthew M. Kim Assistant Examiner—Huynh Ba

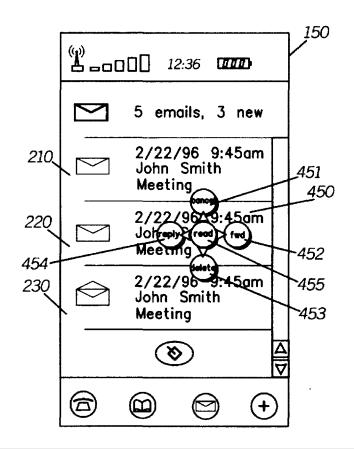
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[57]

**ABSTRACT** 

A user performs a manual selection or a gesture selection of a screen object (210, 220, 230) on a screen (150) of an electronic device (100) using a pointing device (190). After a manual selection, such as a single tap, the electronic device (100) automatically presents a temporary directional palette (450) having palette buttons (451, 452, 453, 454, 455) that explicitly state functions of the electronic device (100). Each palette button has a unique compass direction relative to the original tap area. By making a second tap on a desired palette button, a novice user learns available functions of the electronic device (100) and their corresponding directional gestures. Alternately, the user may perform a gesture selection of both a screen object and a function, such as making a double tap or drawing a line in the appropriate direction, before the directional palette appears on the screen (150).

16 Claims, 5 Drawing Sheets





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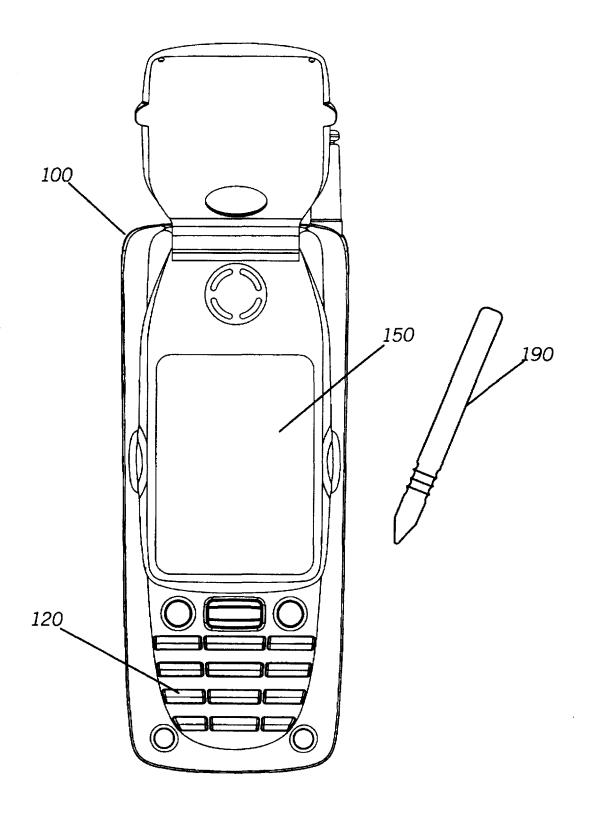


FIG.1

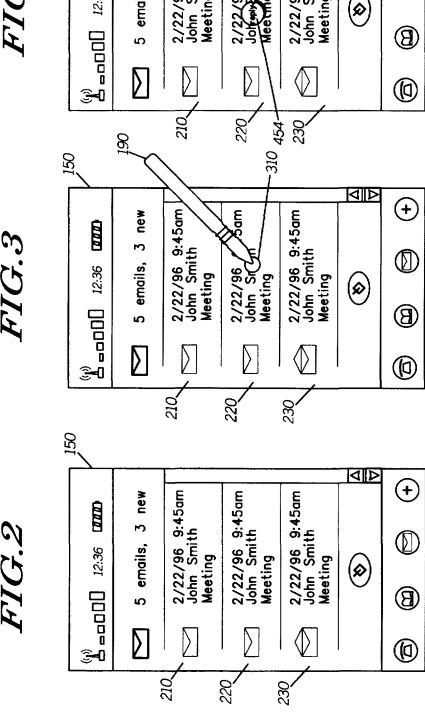
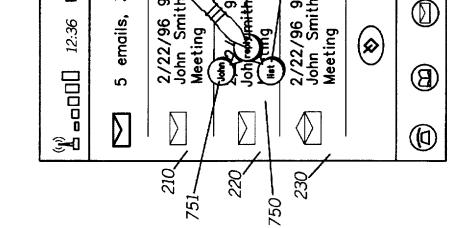


FIG.



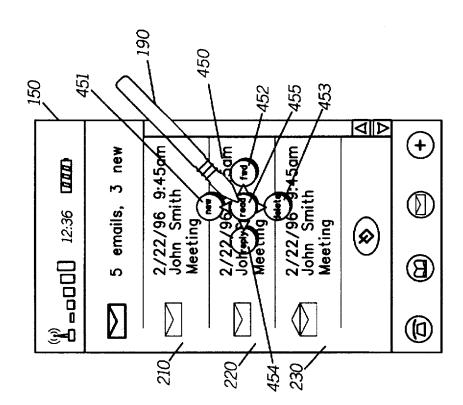
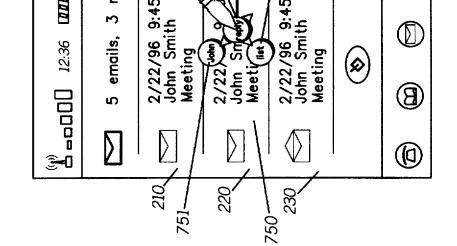
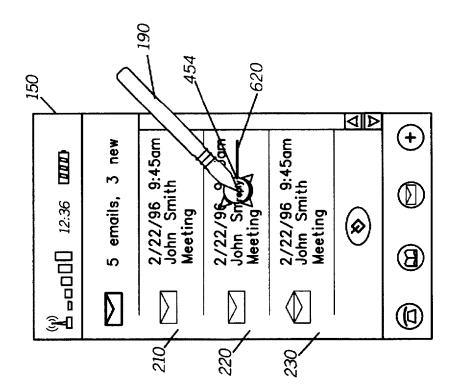






FIG.8







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