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[54] **ELECTRONIC DEVICE WITH DISPLAY VIEWABLE FROM TWO OPPOSITE ENDS**

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[52] **U.S. Cl.** **455/566**; 455/556; 455/557; 455/575

[58] **Field of Search** 455/344, 566, 455/556, 557, 550, 553, 572, 574, 575, 347, 351, 158.4; 364/707, 708; 345/126, 431, 437, 121, 49, 52, 56

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,817,194	3/1989	Andros, Jr.	455/158.4
5,014,046	5/1991	Minami	345/121
5,189,632	2/1993	Paajanen et al.	455/556
5,268,816	12/1993	Abell, Jr. et al.	364/708
5,353,075	10/1994	Conner et al.	364/708
5,508,720	4/1996	DiSanto et al.	345/49
5,522,089	5/1996	Kikinis et al.	455/556

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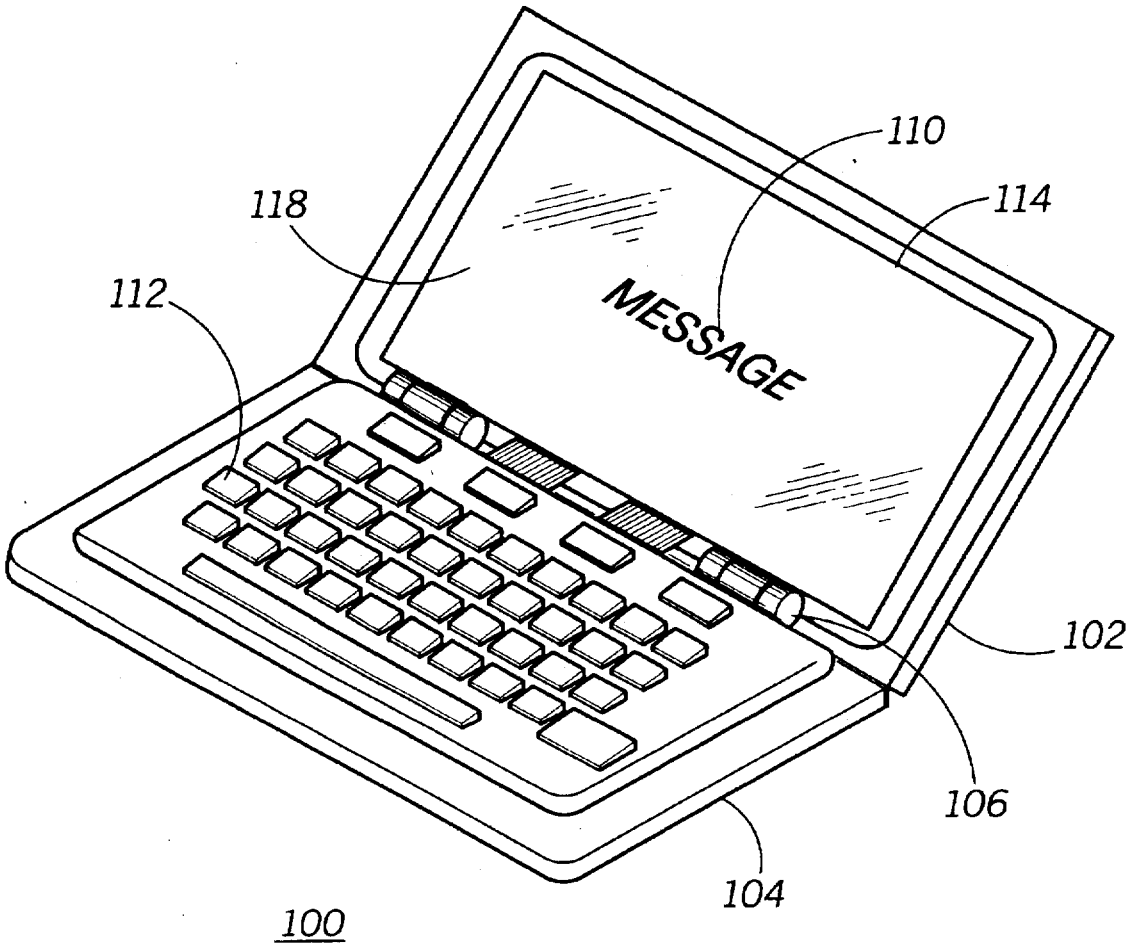
[57] **ABSTRACT**

An electronic device (**100**) includes a processor (**808**) for processing a message (**110**), and a display (**114**) electrically coupled to the processor for displaying an image including the message. The display is constructed and arranged such that the image is viewable from first and second sides (**116**, **118**) of the display, the first and second sides facing opposite one another.

14 Claims, 4 Drawing Sheets