

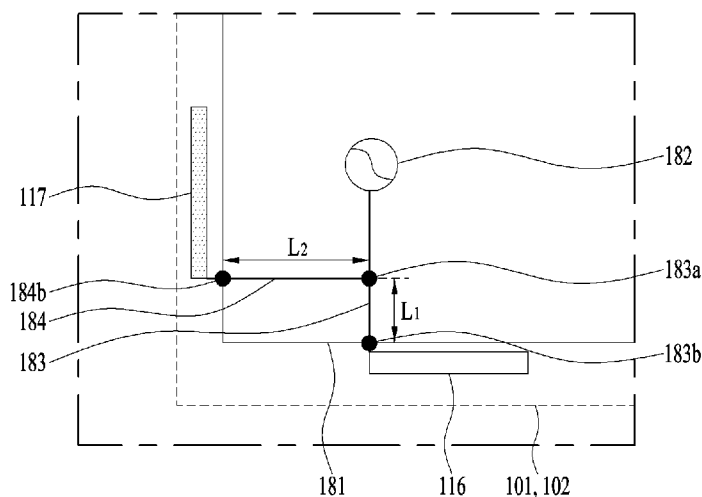


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(54) Title: MOBILE TERMINAL



(57) Abstract: A mobile terminal comprises a case; a main board packaged in the case; a signal supply unit packaged on the main board, supplying a radio signal; an antenna radiator packaged in the case, including a conductive material and transmitting and receiving a signal of a first frequency; an antenna tuner packaged in the case, including a conductive material; a feeding line located on the main board, having one end connected with the signal supply unit and the other end connected with the antenna radiator; and a tuning line located on the main board, having one end connected to the feeding line and the other end connected with the antenna tuner, wherein the tuning line and the antenna tuner compensate for impedance of the feeding line and the antenna radiator.



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A. CLASSIFICATION OF SUBJECT MATTER**H01Q 1/24(2006.01)i, H01Q 5/50(2014.01)i, H04M 1/02(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H01Q 1/24; H01Q 1/50; H01Q 21/28; H01Q 13/10; H01Q 1/48; H01Q 5/00; H01Q 5/10; H01Q 5/50; H04M 1/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: mobile, antenna, tuner, feeding line, tuning line

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2014-0062815 A1 (HTC CORPORATION) 06 March 2014 See paragraphs [0005],[0037],[0049],[0064], claims 1,15 and figure 2.	1,4,9,11-13
A		2-3,5-8,10
Y	CN 104901015 A (TSINGHUA UNIVERSITY) 09 September 2015 See claim 1 and figure 4.	1,4,9,11-13
A	US 2013-0222205 A1 (RESEARCH IN MOTION RF, INC.) 29 August 2013 See paragraphs [0034]-[0036] and figure 7A.	1-13
A	US 2015-0116158 A1 (OSAMA NAFETH ALRABADI et al.) 30 April 2015 See paragraphs [0039]-[0042] and figure 6.	1-13
A	KR 10-2014-0114691 A (ETHERTRONICS KOREA CO., LTD.) 29 September 2014 See claims 1-3 and figure 35.	1-13

 Further documents are listed in the continuation of Box C. See patent family annex.

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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