

CERTIFICATE OF TRANSLATION ACCURACY

I, Michael Fletcher, declare:

1. I am a native speaker of English and am well versed in both the Japanese and English languages and have over 18 years of experience translating Japanese technical documents into English on a full-time basis.
2. The following translation of the corresponding source text from Japanese into English is accurate and complete to the best of my knowledge.

I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and accurate.

Statements made herein are to the best of my knowledge true and are based on information that I believe to be true and further these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the patent application in the United States of America or any patent issuing thereon.

Executed this 19th day of September 2021, at Parowan, UT.



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(21) Application No.: 2012-145962 (P2012-145962)	(71) Applicant	000005821 Panasonic Corporation 1006 Oaza Kadoma, Kadoma-shi Osaka-fu, Japan
(22) Application Date: June 28, 2012 (2012.6.28)	(74) Agent	100119552 Patent Attorney HASHIMOTO, Koushu
	(74) Agent	100105647 Patent Attorney OGURI, Shohei
	(74) Agent	100138771 Patent Attorney SHOMEI, Yoshida
	(74) Agent	100108589 Patent Attorney ICHIKAWA, Toshimitsu
	(72) Inventor	KOYANAGI, Yoshio Panasonic Mobile Communications Co., Ltd., 600 Saedo-cho, Tsuzuki-ku, Yokohama-shi, Kanagawa-ken, Japan

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(54) TITLE OF THE INVENTION:

MOBILE TERMINAL

(57) ABSTRACT

PROBLEM

An object of the present invention is to provide a mobile terminal enabling implementation of reduced thickness by modularizing and reducing size of the non-contact charging coil, NFC antenna, and magnetic sheet.

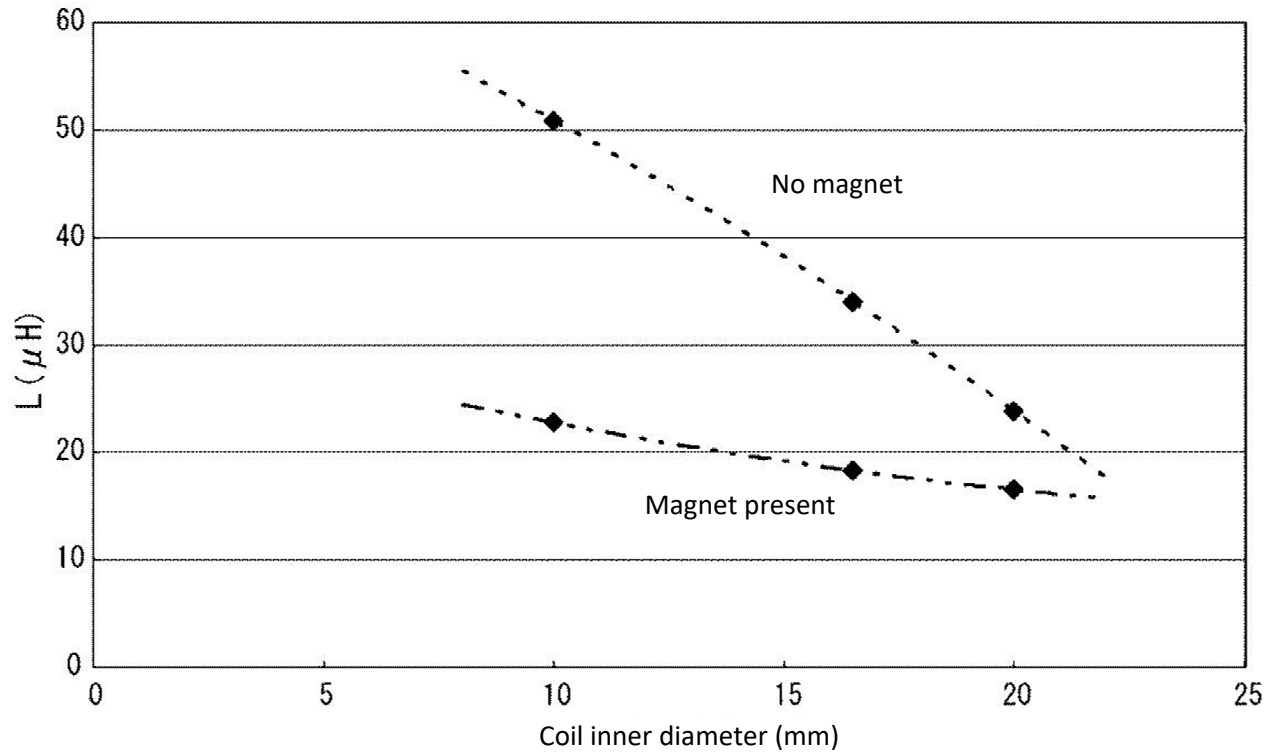
MEANS TO SOLVE THE PROBLEM

The mobile terminal 10 is provided with a case 11, a battery pack 18, and a non-contact charging module 72. The battery pack 18 is arranged in a first region 31 in plan view viewed along the thickness direction of the

case, and the non-contact charging module 72 is arranged in a second region 32 adjacent to the first region 31.

The non-contact charging module 72 overlaps the intersection of the centerline of the second region 32 along the adjacent direction of the first region 31 and the second region 32 and the centerline of the case 11 in the width direction that is perpendicular to the adjacent direction of the second region 32.

[Selected drawing] FIG. 6



What is claimed is:

[Claim 1]

A mobile terminal comprising:

a case;
a battery pack stowed in the case; and
a non-contact charging module stowed in the case;
the non-contact charging module having a charging coil with a conducting wire wound, a first magnetic sheet that supports said charging coil, and a second magnetic sheet that is placed on the first magnetic sheet and supports the NFC coil; wherein
the battery pack is placed in a first region in plan view as viewed in the through-thickness direction of the case;
the non-contact charging module is placed in a second region adjacent to the first region; and
the non-contact charging module overlaps the intersection of the centerline of the second region along the adjacent direction of the first region and second region and the centerline of the case in the width direction perpendicular to the adjacent direction of the second region.

[Claim 2]

A mobile terminal comprising:

a case;
a battery pack stowed in the case; and
a non-contact charging module stowed in the case;
the non-contact charging module having a charging coil with a conducting wire wound, a first magnetic sheet that supports said charging coil, and a second magnetic sheet that is placed on the first magnetic sheet and supports the NFC coil; wherein
the battery pack is placed in a first region in plan view as viewed in the through-thickness direction of the case;
the non-contact charging module is placed in a second region adjacent to the first region; and
the non-contact charging module overlaps the intersection of the centerline of the second region along the adjacent direction of the first region and second region and the centerline of the battery pack in the width direction perpendicular to the adjacent direction of the second region.

[Claim 3]

A mobile terminal comprising:

a case;
a battery pack stowed in the case; and
a non-contact charging module stowed in the case;
the non-contact charging module having a charging coil with a conducting wire wound, a first magnetic sheet that supports said charging coil, and a second magnetic sheet that is placed on the first magnetic sheet and supports the NFC coil; wherein
the battery pack is placed in a first region in plan view as viewed in the through-thickness direction of the case;
the non-contact charging module is placed in a second region adjacent to the first region; and
the non-contact charging module is placed more towards the first region side than the centerline of the second region along the adjacent direction of the first region and the second region.

DETAILED DESCRIPTION OF THE INVENTION

TECHNICAL FIELD

[0001]

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