



US 20140306656A1

(19) **United States**

(12) **Patent Application Publication**
Tabata et al.

(10) **Pub. No.: US 2014/0306656 A1**

(43) **Pub. Date: Oct. 16, 2014**

(54) **NON-CONTACT CHARGING MODULE AND PORTABLE TERMINAL PROVIDED WITH SAME**

Publication Classification

(71) Applicant: **Panasonic Corporation**, Osaka (JP)

(51) **Int. Cl.**
H02J 7/02 (2006.01)
H04B 5/00 (2006.01)
H01F 38/14 (2006.01)

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(52) **U.S. Cl.**
CPC *H02J 7/025* (2013.01); *H01F 38/14* (2013.01); *H04B 5/0037* (2013.01)
USPC **320/108**

(21) Appl. No.: **14/359,564**

(57) **ABSTRACT**

(22) PCT Filed: **Dec. 4, 2012**

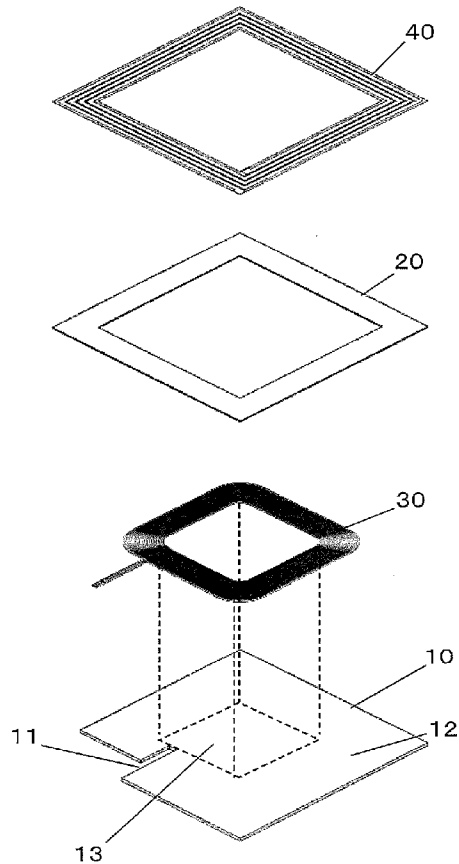
(86) PCT No.: **PCT/JP2012/007775**

§ 371 (c)(1),
(2), (4) Date: **May 20, 2014**

Provided is a non-contact charging module for which miniaturization is achieved by making a non-contact charging coil, an NFC antenna, and a magnetic sheet into one module, and which enables transmission and power propagation in the same direction. This device of the present invention is provided with a charging coil comprising a wound lead wire, an NFC coil disposed so as to surround the charging coil, and a magnetic sheet that holds the charging coil and the NFC coil from the same direction. The number of turns of the charging coil is greater than that of the NFC coil.

(30) **Foreign Application Priority Data**

Dec. 7, 2011 (JP) 2011-267964
Dec. 7, 2011 (JP) 2011-267965
Dec. 7, 2011 (JP) 2011-267966



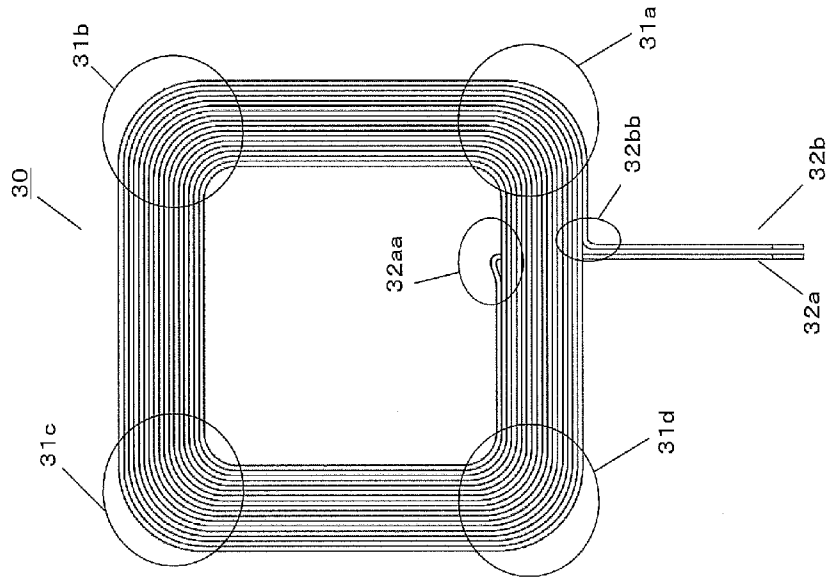


FIG. 1B

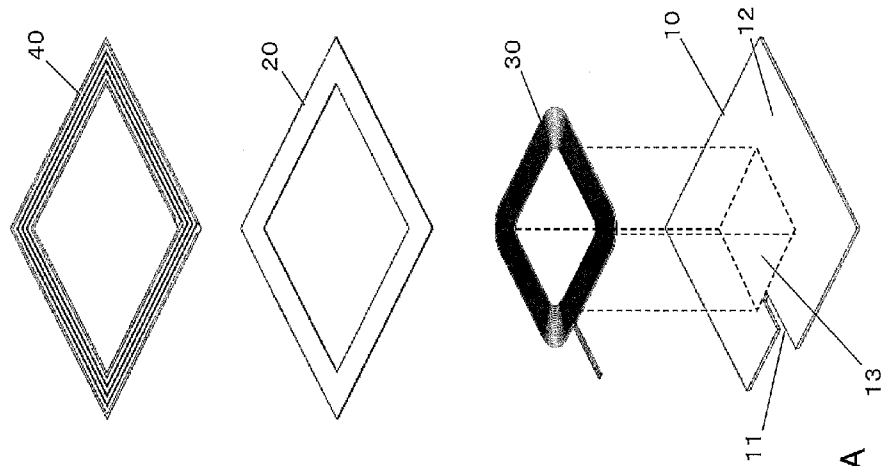


FIG. 1A

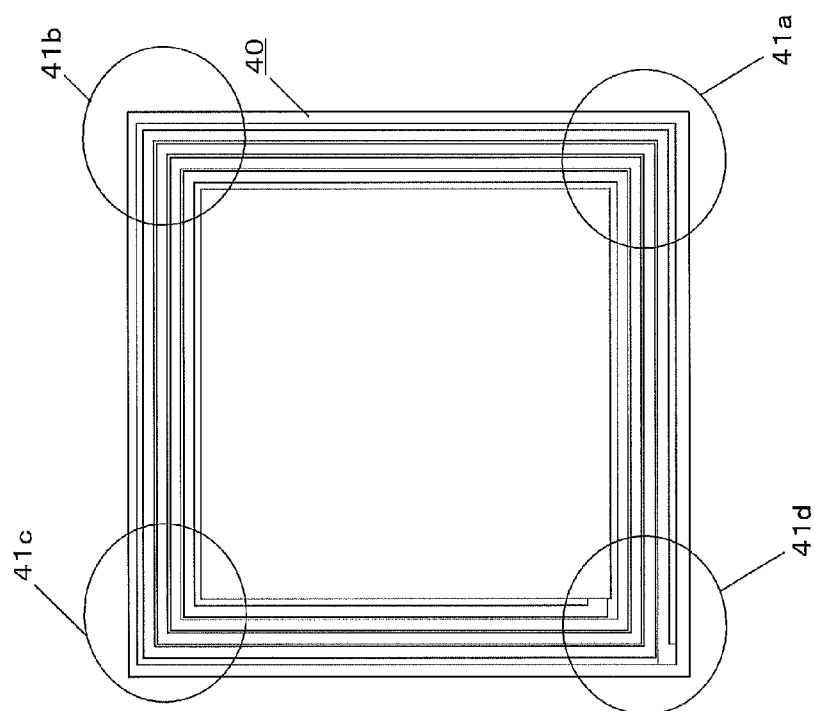


FIG. 2

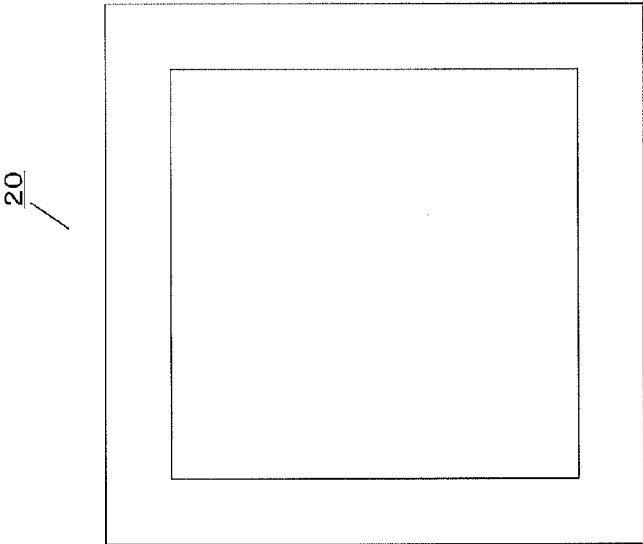


FIG. 3B

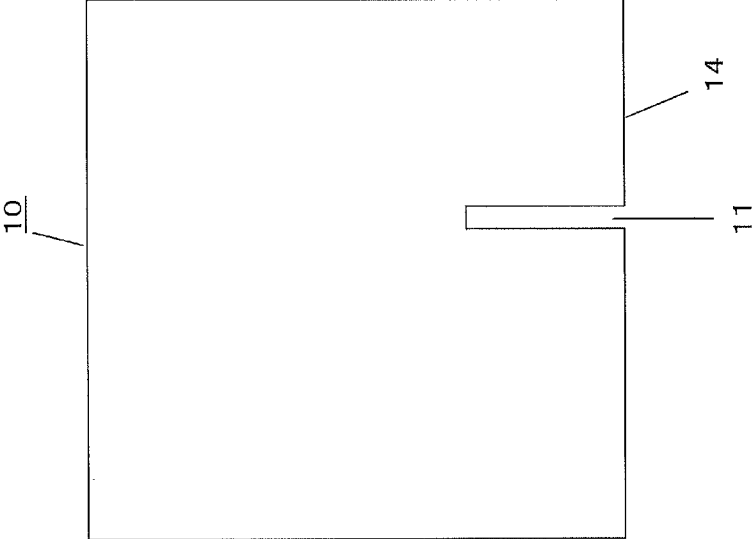


FIG. 3A

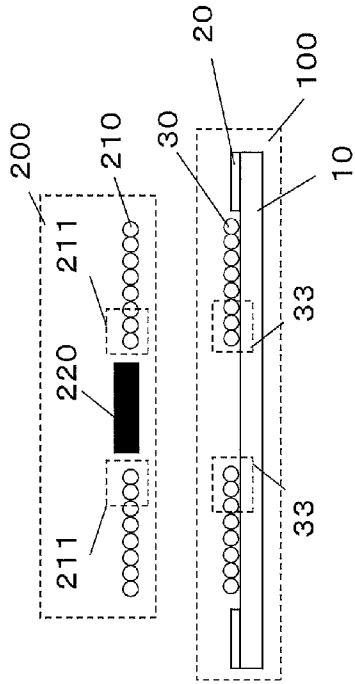


FIG. 4A

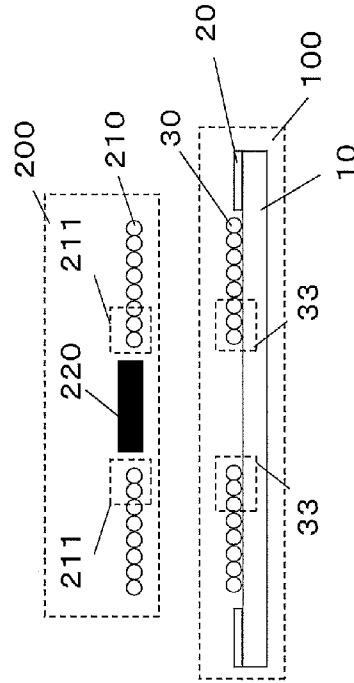


FIG. 4B

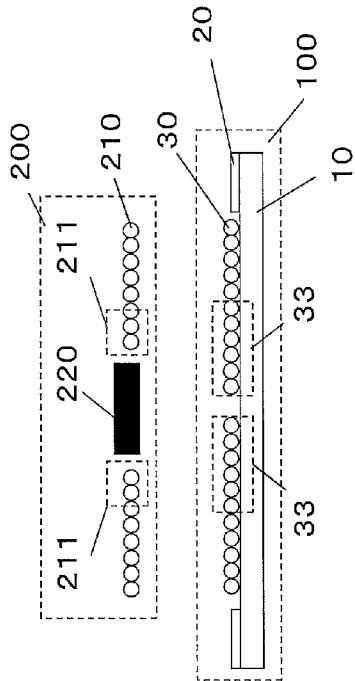


FIG. 4C

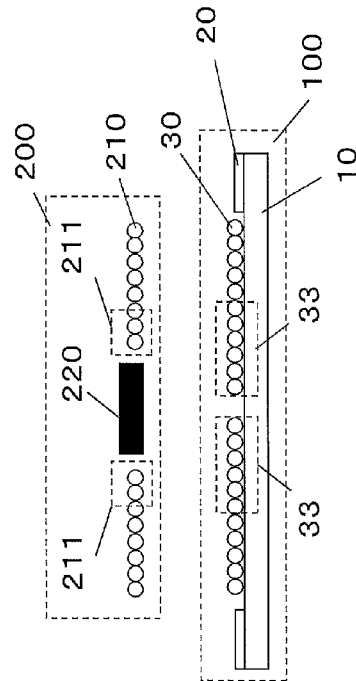


FIG. 4D

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