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(12) **United States Design Patent** (10) **Patent No.:** **US D916,688 S**  
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(54) **PLANAR ANTENNA**  
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D850,426 S \* 6/2019 He ..... D14/230  
D856,984 S \* 8/2019 Nair ..... D14/230  
D874,446 S \* 2/2020 He ..... D14/230  
D886,084 S \* 6/2020 Sakamoto ..... D14/230  
2004/0041733 A1\* 3/2004 Milosavljevic ..... H01Q 9/0442  
343/700 MS  
2008/0284660 A1\* 11/2008 Hozouri ..... H01Q 9/0414  
343/700 MS

(Continued)

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FOREIGN PATENT DOCUMENTS

CN 303453728 \* 11/2015  
JP D1397761 \* 9/2010

(\*\*) Term: **15 Years**

OTHER PUBLICATIONS

(21) Appl. No.: **29/664,370**

Planar dipole antenna on a dielectric substrate. article date Feb.  
2014, [https://www.researchgate.net/figure/Planar-dipole-antenna-on-a-dielectric-substrate\\_fig1\\_...\\*](https://www.researchgate.net/figure/Planar-dipole-antenna-on-a-dielectric-substrate_fig1_...)

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(Continued)

(51) **LOC (13) Cl.** ..... **14-03**

(52) **U.S. Cl.**  
USPC ..... **D14/230**

(58) **Field of Classification Search**  
USPC ..... D14/230  
CPC ..... H01Q 9/04  
See application file for complete search history.

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(56) **References Cited**

(57) **CLAIM**

The ornamental design for planar antenna, as shown and  
described.

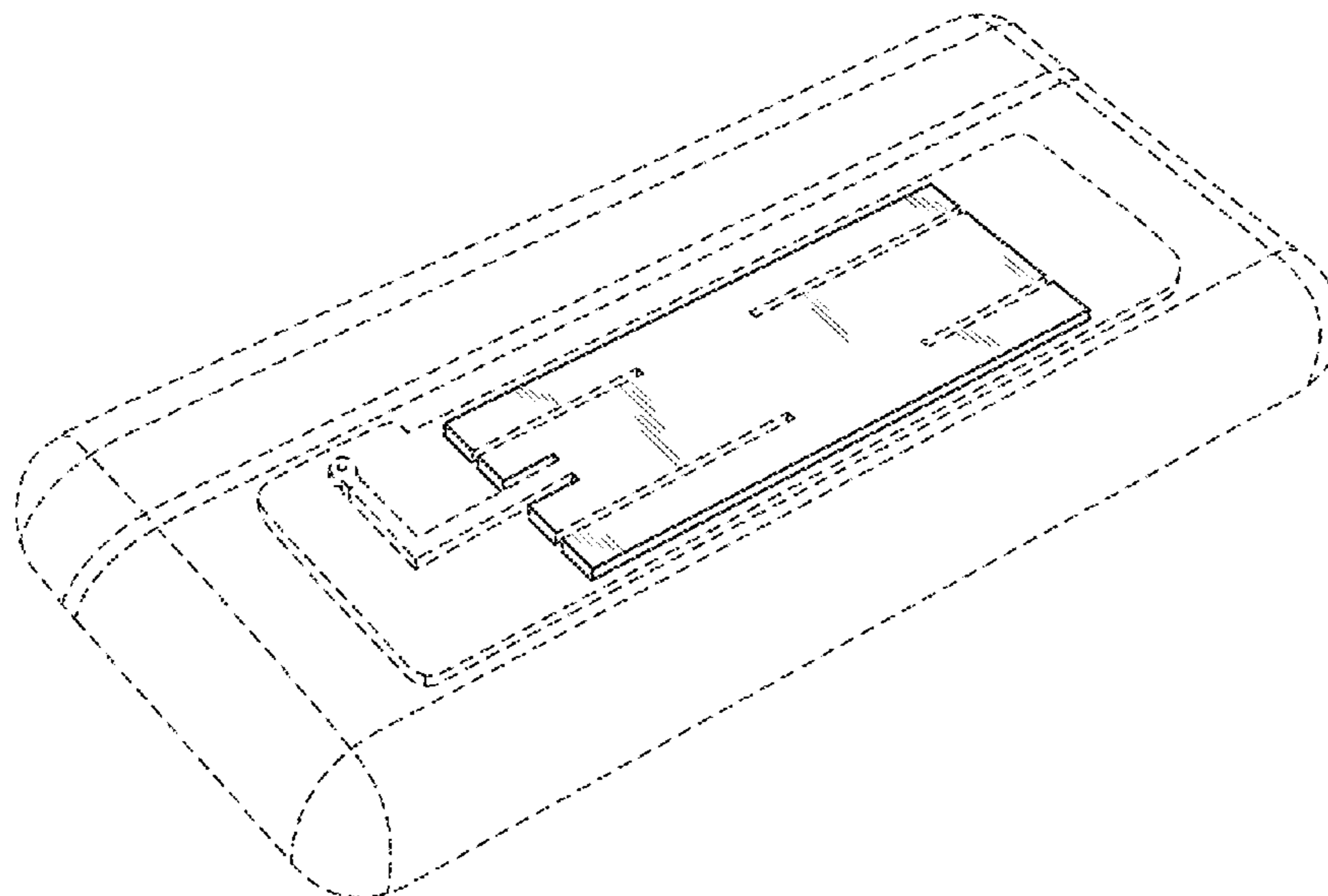
U.S. PATENT DOCUMENTS

**DESCRIPTION**

D491,557 S \* 6/2004 Iwai ..... D14/230  
D582,400 S \* 12/2008 Takisawa ..... D14/230  
D582,905 S \* 12/2008 Takisawa ..... D14/230  
D649,961 S \* 12/2011 Huang ..... D14/230  
D650,370 S \* 12/2011 Huang ..... D14/230  
D692,869 S \* 11/2013 Gladstone ..... D14/230  
D750,050 S \* 2/2016 Poddaturi ..... D14/230  
D764,446 S \* 8/2016 Chang ..... D14/230  
D789,913 S \* 6/2017 He ..... D14/230  
D826,910 S \* 8/2018 Zhao ..... D14/230  
10,074,905 B2 \* 9/2018 Kim ..... H01Q 5/378  
D829,695 S \* 10/2018 Wu ..... D14/230  
D849,724 S \* 5/2019 He ..... D14/230  
D850,424 S \* 6/2019 Kang ..... D14/230

FIG. 1 is a perspective view of a planar antenna showing the  
claimed design;  
FIG. 2 is a top view thereof;  
FIG. 3 is a bottom view thereof;  
FIG. 4 is a right side view thereof; and,  
FIG. 5 is a left side view thereof.  
The broken lines illustrate environment and portions of the  
antenna that form no part of the claimed design.

**1 Claim, 4 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2012/0126016 A1\* 5/2012 Yang ..... G06K 19/07771  
235/492  
2018/0131082 A1\* 5/2018 Shirai ..... H01Q 1/32

OTHER PUBLICATIONS

CN201930120880.X, "Notice of Decision to Grant", dated Oct. 18,  
2019, 5 pages.  
CN201930120924.9, "Notice of Decision to Grant", dated Sep. 20,  
2019, 5 pages.  
CN201930120932.3, "Notice of Decision to Grant", dated Sep. 20,  
2019, 4 pages.  
CN201930120935.7, "Notice of Decision to Grant", dated Sep. 20,  
2019, 5 pages.

\* cited by examiner

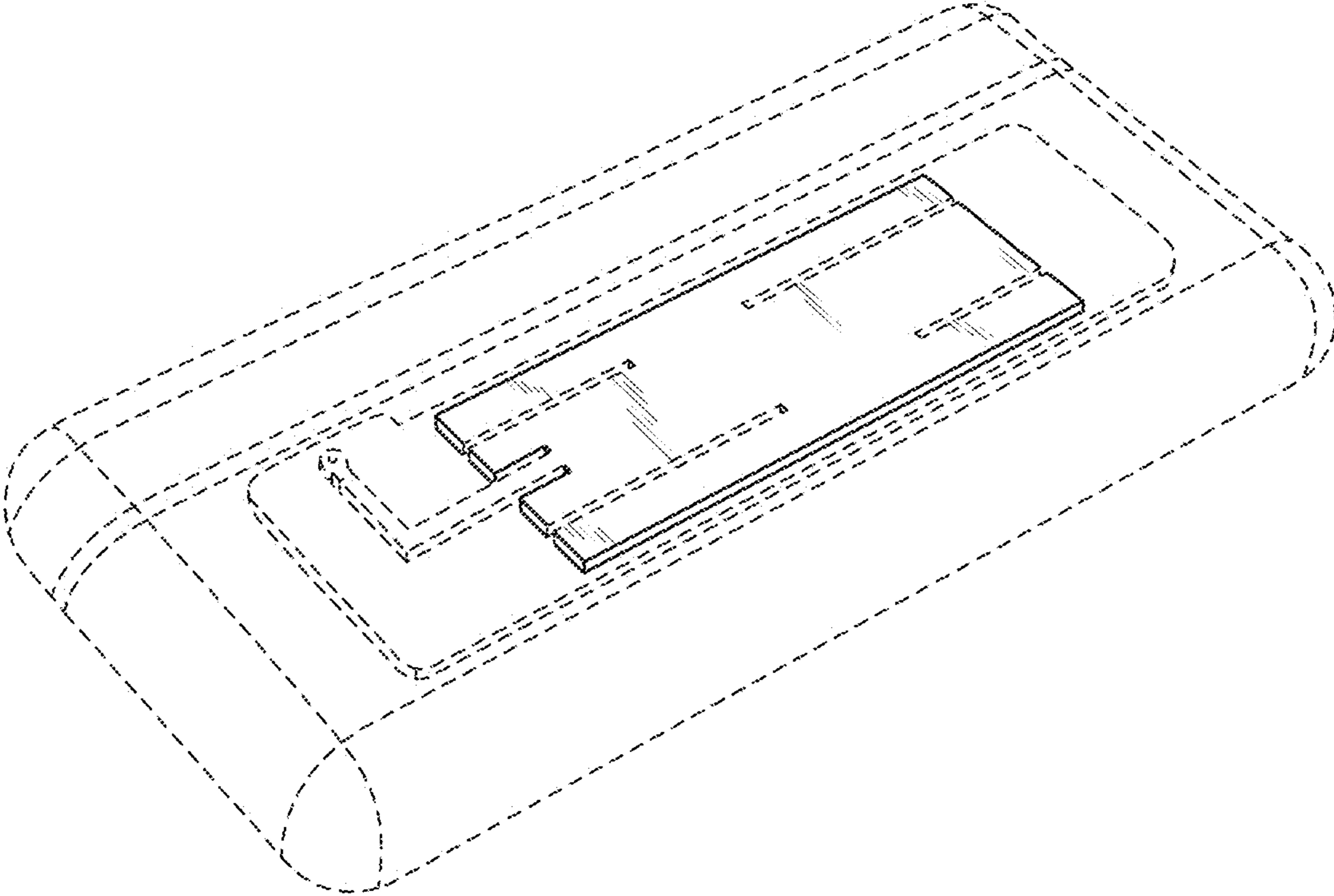


FIG. 1

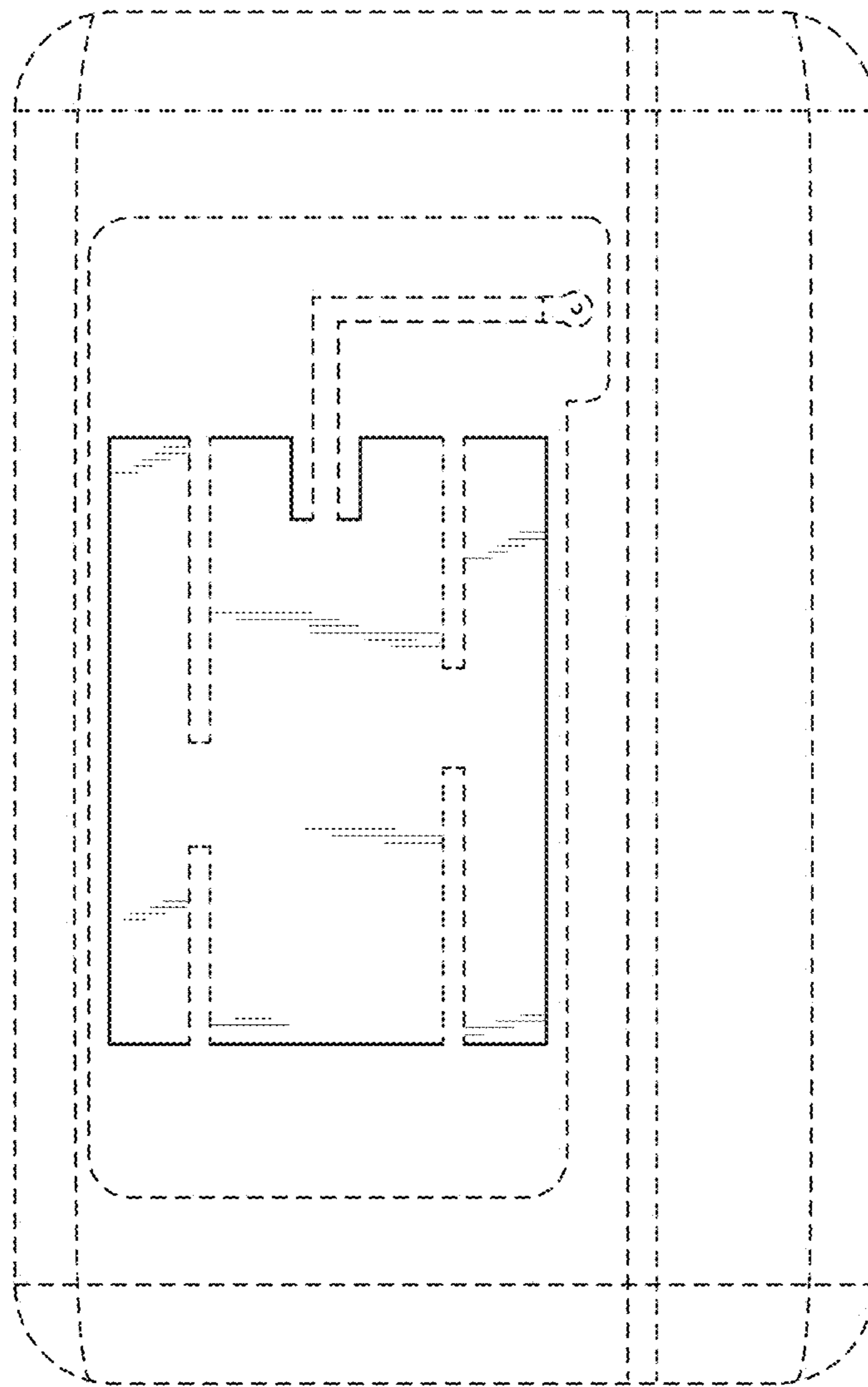


FIG. 2

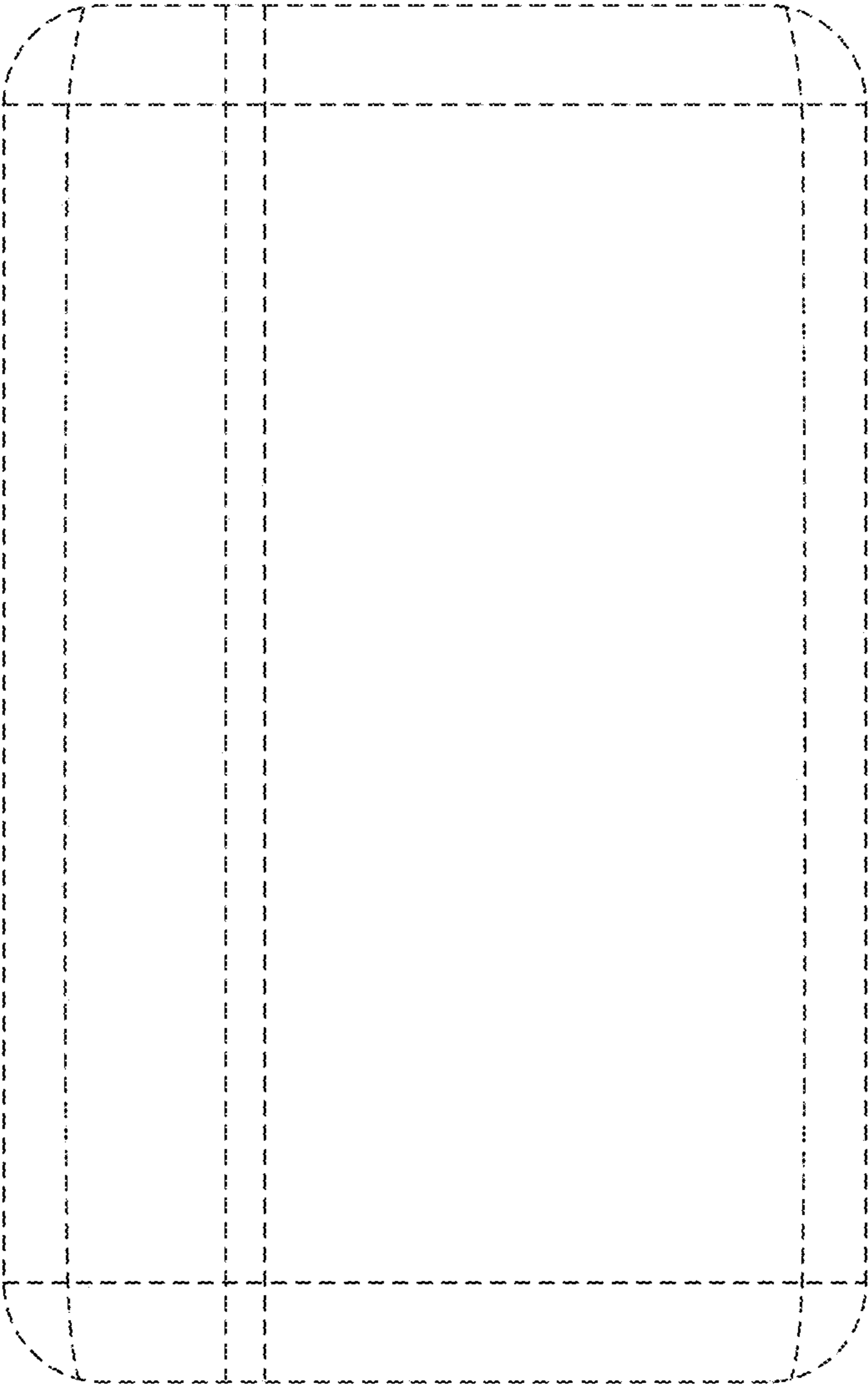


FIG. 3

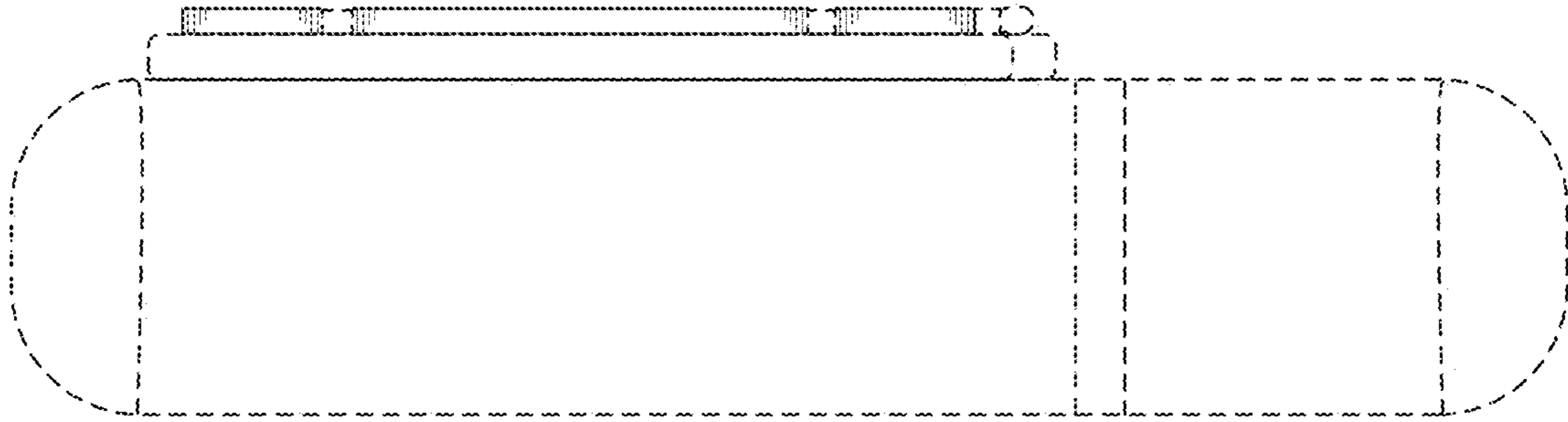


FIG. 4

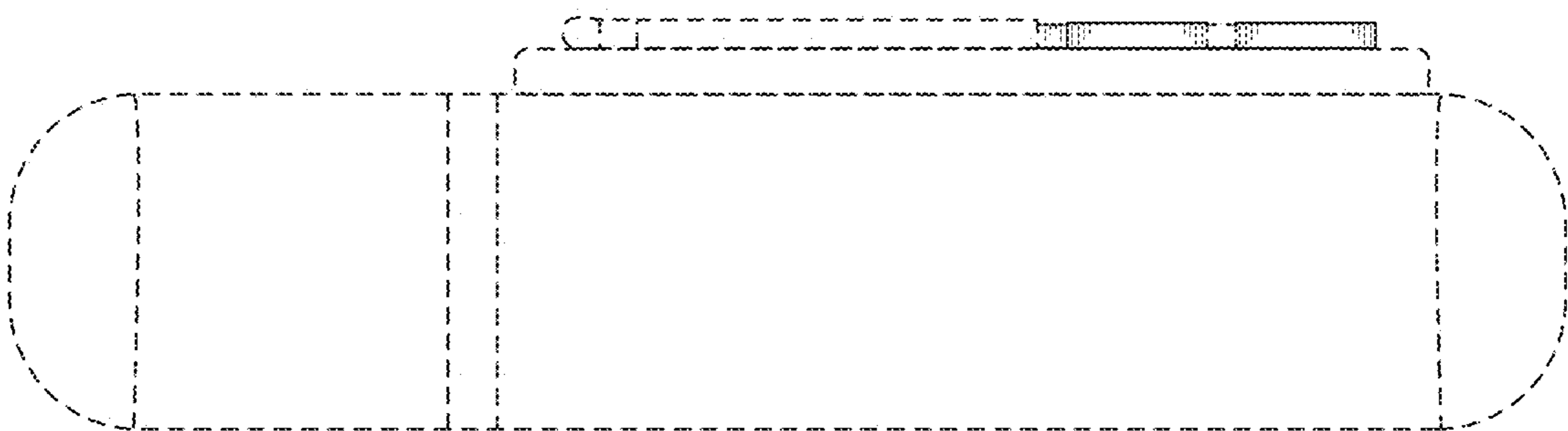


FIG. 5