



US00D796432S

(12) **United States Design Patent**  
**Liu et al.**

(10) **Patent No.:** **US D796,432 S**

(45) **Date of Patent:** **\*\* Sep. 5, 2017**

(54) **THREE-INTERFACE CHARGER**  
(71) Applicant: **Tech-Power Electronics (Shenzhen) Co., Ltd.**, Shenzhen, Guangdong (CN)  
(72) Inventors: **Jiehua Liu**, Guangdong (CN); **Ping Wang**, Guangdong (CN); **Yang Zhang**, Guangdong (CN); **Na Li**, Guangdong (CN)  
(73) Assignee: **Tech-Power Electronics (Shenzhen) Co., Ltd.**, Shenzhen (CN)

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

(21) Appl. No.: **29/536,052**

(22) Filed: **Aug. 13, 2015**

(51) **LOC (10) Cl.** ..... **13-02**

(52) **U.S. Cl.**  
USPC ..... **D13/107**

(58) **Field of Classification Search**  
USPC ..... D13/102-110, 118-119, 184, 199;  
D14/356, 432

CPC ..... Y02E 60/10; Y02E 60/12; Y02E 60/122;  
Y02E 60/124; Y02E 60/50; H01M 2/02;  
H01M 2/022; H01M 2/0202; H01M  
2/0207; H01M 2/0212; H01M 2/1061;  
H01M 2/1022; H01M 2/1055; H01M  
2/1066; H01M 2/105; H01M 2/20; H01M  
2/204; H01M 2/206; H01M 10/44; H01M  
10/46; H01M 10/465; H01M 10/482;  
H01M 2200/30; H01M 2250/30; H01M  
2250/40; H02J 7/00; H02J 7/0003; H02J  
7/0011; H02J 7/0013; H02J 7/0054; H02J  
7/0055; H02J 7/0057; H02J 2007/0062

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D623,136 S \* 9/2010 Andre ..... D13/108  
D638,357 S \* 5/2011 Sasada ..... D13/110

D722,018 S \* 2/2015 Wang ..... D13/103  
D730,823 S \* 6/2015 Leung ..... D13/108  
D732,472 S \* 6/2015 Laffon ..... D13/110  
D734,259 S \* 7/2015 Cypress ..... D13/110  
D735,130 S \* 7/2015 Huang ..... D13/108  
D736,153 S \* 8/2015 Levy ..... D13/108  
D736,154 S \* 8/2015 Levy ..... D13/108  
D740,749 S \* 10/2015 Stewart ..... D13/108  
D756,915 S \* 5/2016 Yang ..... D13/108  
D756,916 S \* 5/2016 Yang ..... D13/108  
2015/0280479 A1 \* 10/2015 Levy ..... H02J 7/0042  
320/111

**OTHER PUBLICATIONS**

Anker 4-Port. Amazon.com. [Online].[Published Jul. 29, 2015].  
[Accessed May 10, 2017].URL:<[https://www.amazon.com/dp/B00VH8G1SY/ref=twister\\_B01414HRWE?\\_encoding=UTF8&psc=1](https://www.amazon.com/dp/B00VH8G1SY/ref=twister_B01414HRWE?_encoding=UTF8&psc=1)>.\*

(Continued)

*Primary Examiner* — Rosemary K Tarcza  
*Assistant Examiner* — Nathaniel D Buckner

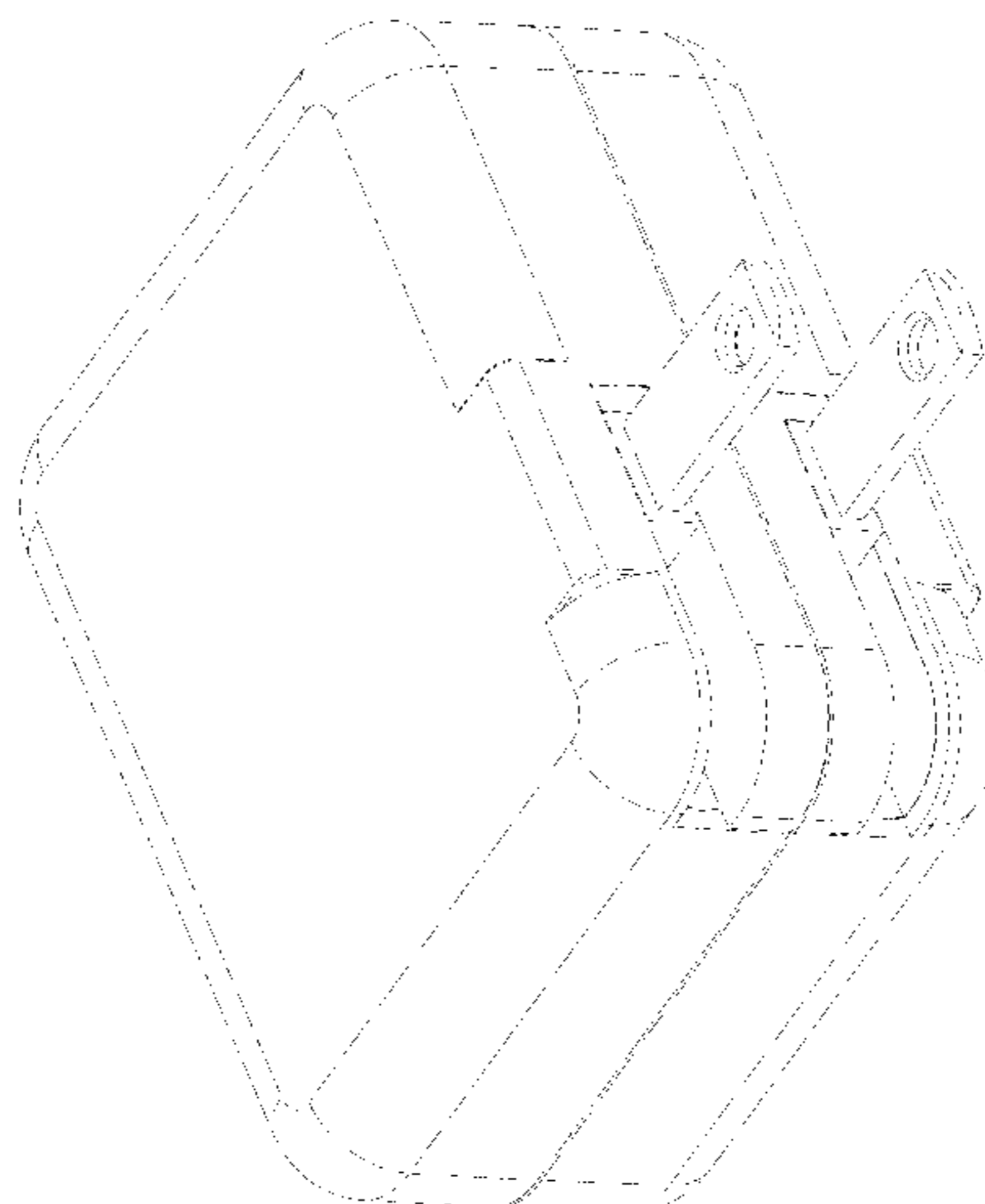
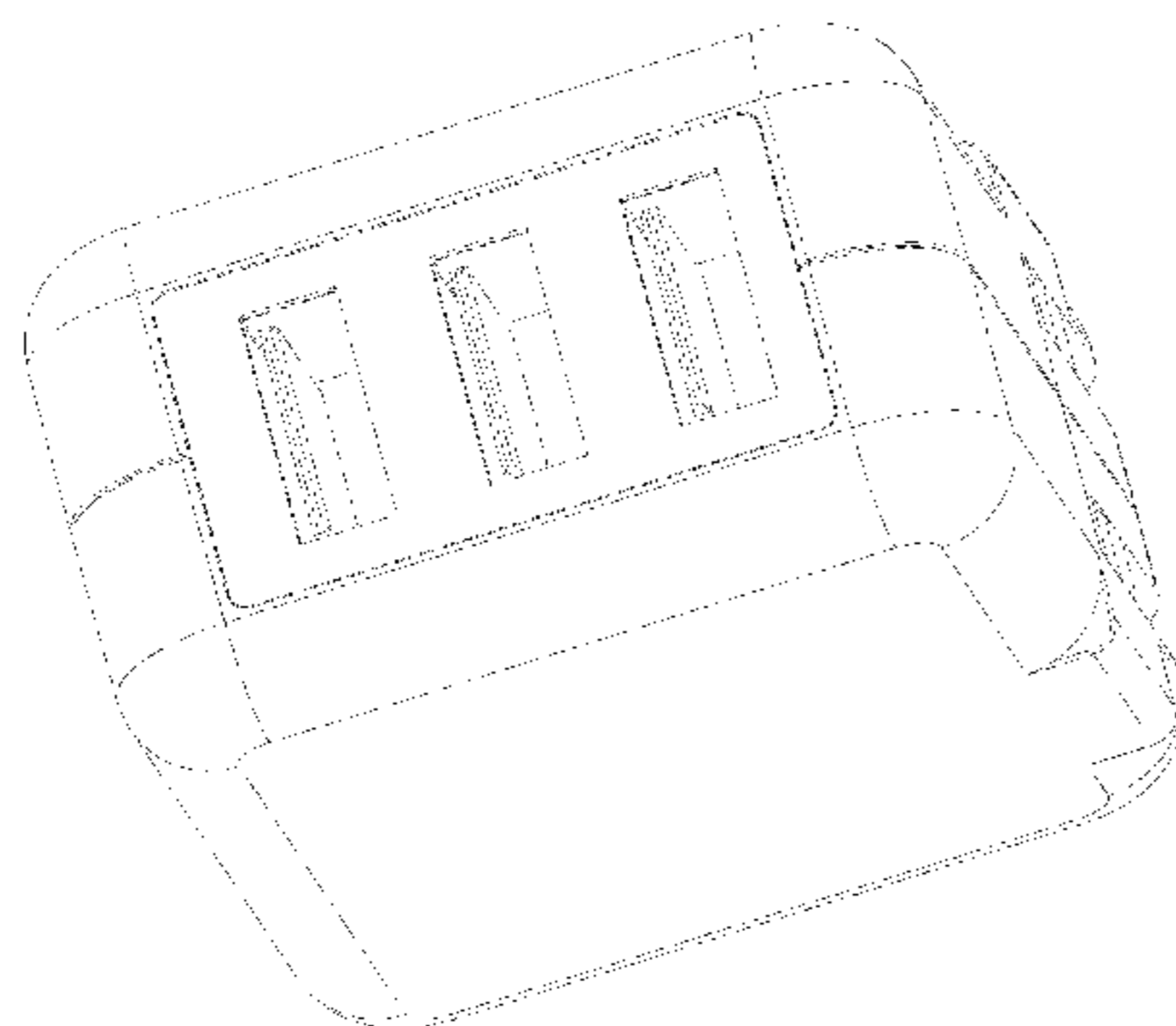
(57) **CLAIM**

The ornamental design for a three-interface charger, as shown and described.

**DESCRIPTION**

FIG. 1 is a front elevational view of a three-interface charger showing our new design;  
FIG. 2 is a rear elevational view thereof;  
FIG. 3 is a left side view thereof;  
FIG. 4 is a right side view thereof;  
FIG. 5 is a top plan view thereof;  
FIG. 6 is a bottom plan view thereof;  
FIG. 7 is a first perspective view thereof;  
FIG. 8 is a second perspective view thereof; and,  
FIG. 9 is a perspective view thereof; shown in a configuration of use.

**1 Claim, 9 Drawing Sheets**



(56)

**References Cited**

OTHER PUBLICATIONS

Ventev Dual USB. Tineye.Com. [Online]. [Published Mar. 31, 2015]. [Accessed May 10, 2017].URL:<[https://tineye.com/search/85c98a024d7a9ad0422c4df554e8c1e84fa4742d/?extension\\_ver=chrome-1.1.5](https://tineye.com/search/85c98a024d7a9ad0422c4df554e8c1e84fa4742d/?extension_ver=chrome-1.1.5)>.\*

\* cited by examiner

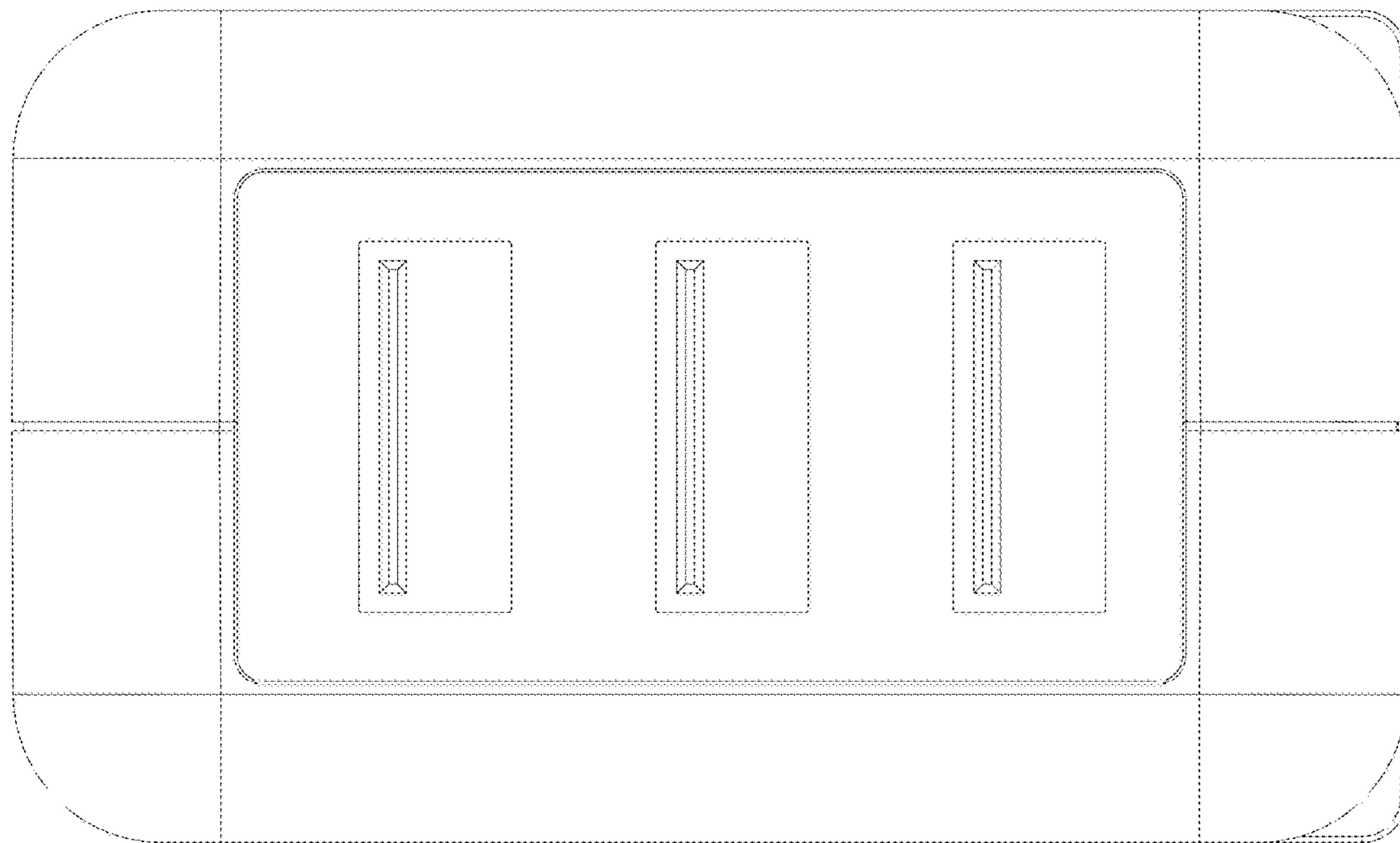


Fig. 1

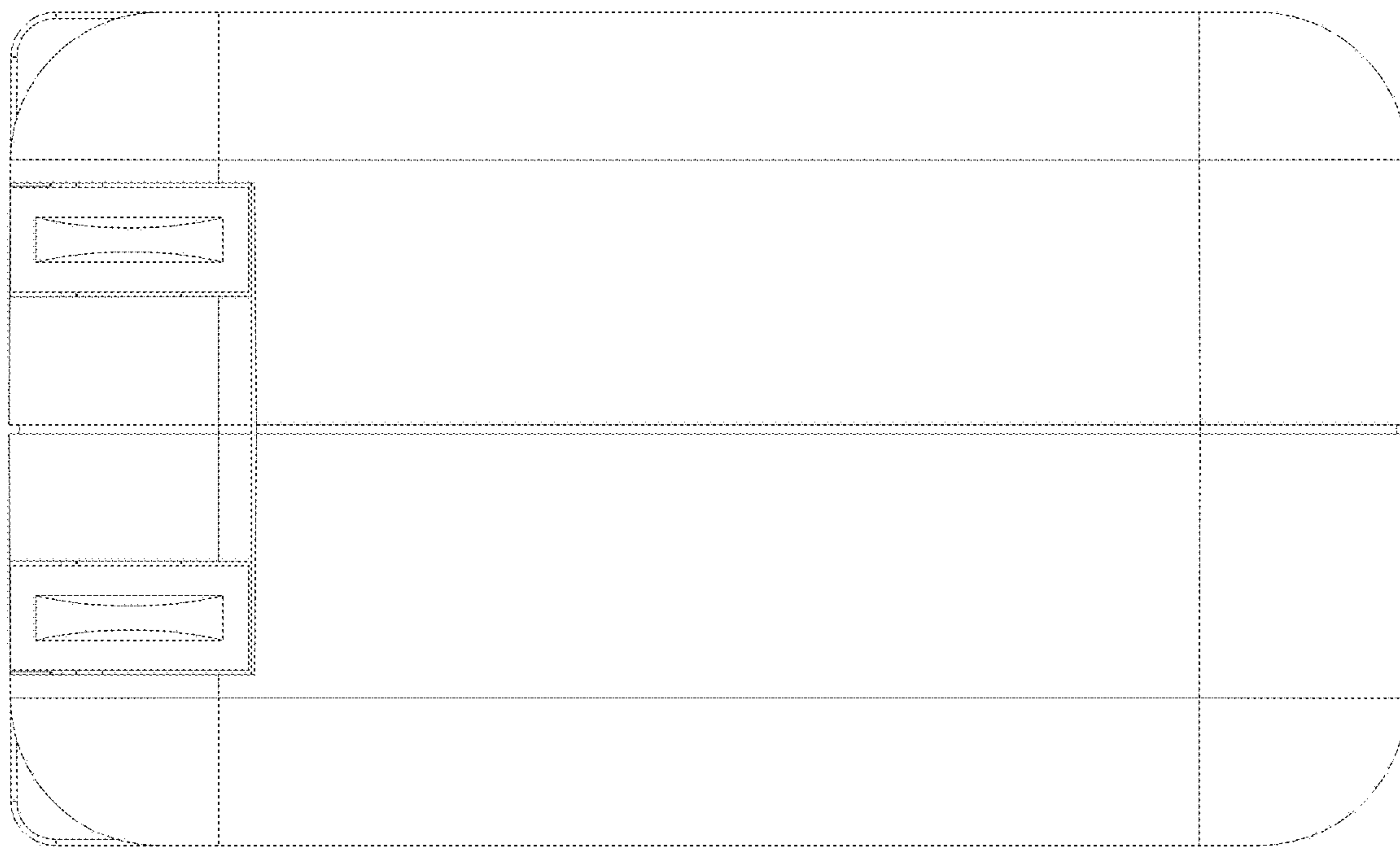


Fig. 2



Fig. 3

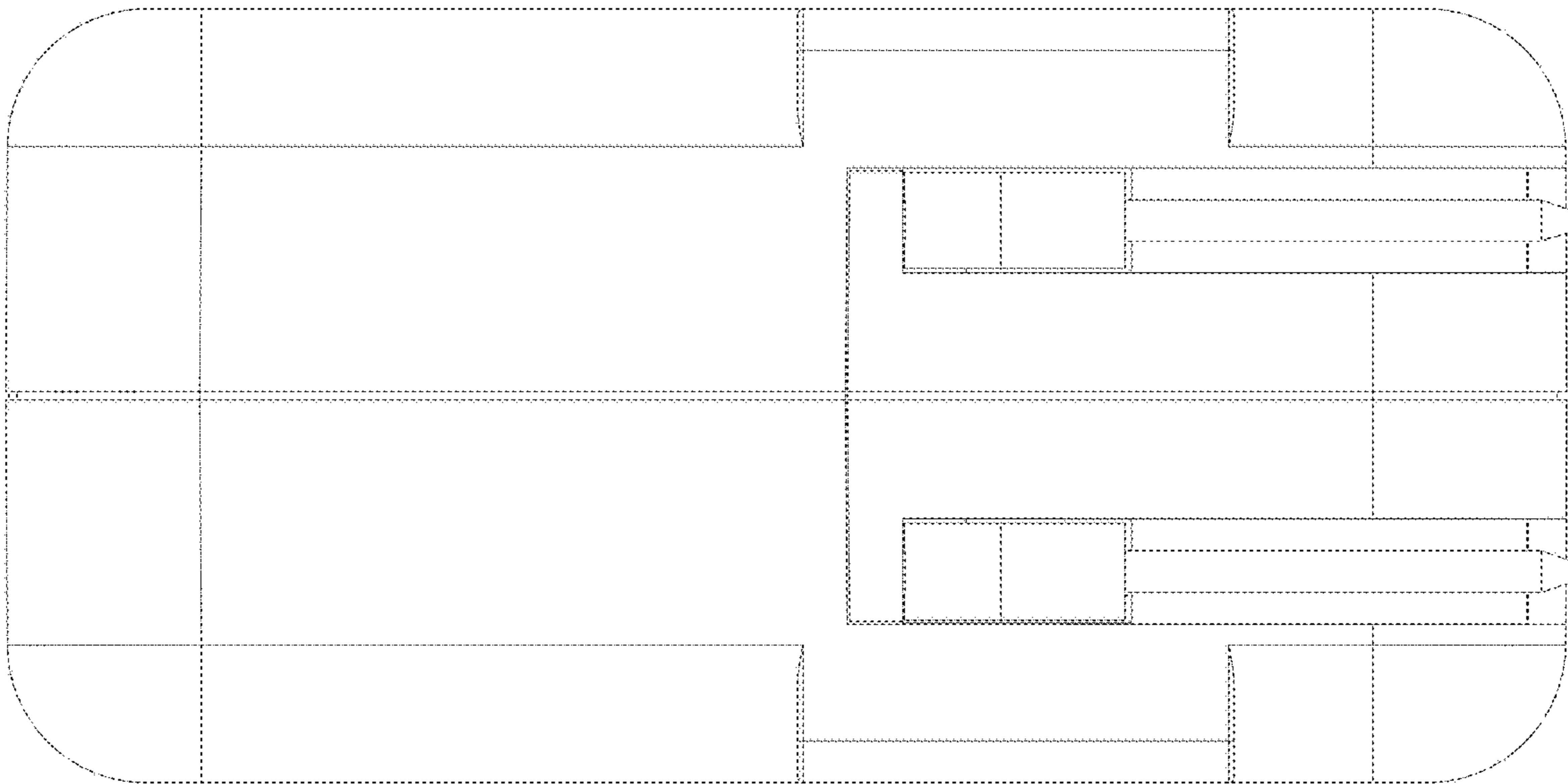


Fig. 4

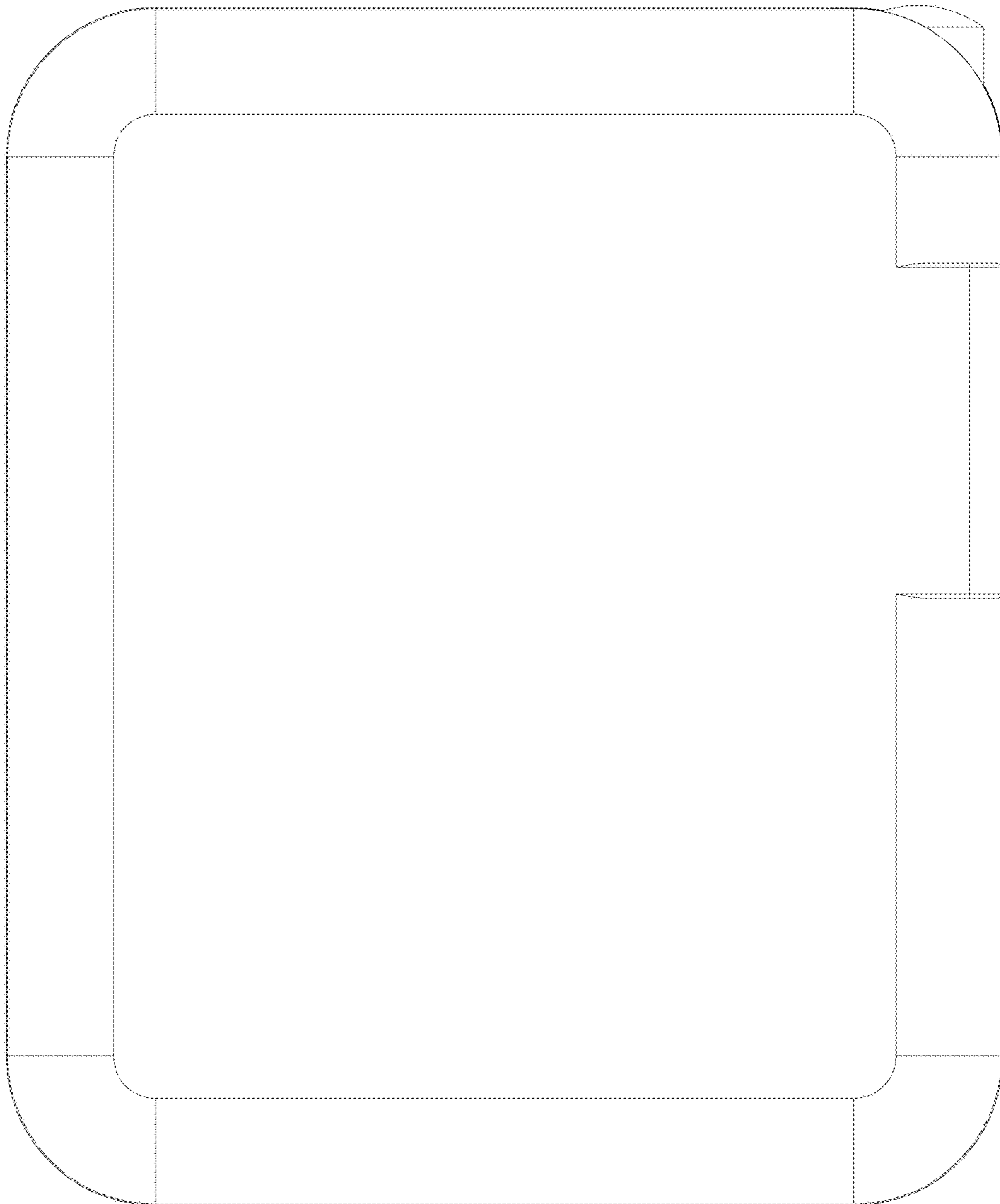


Fig. 5

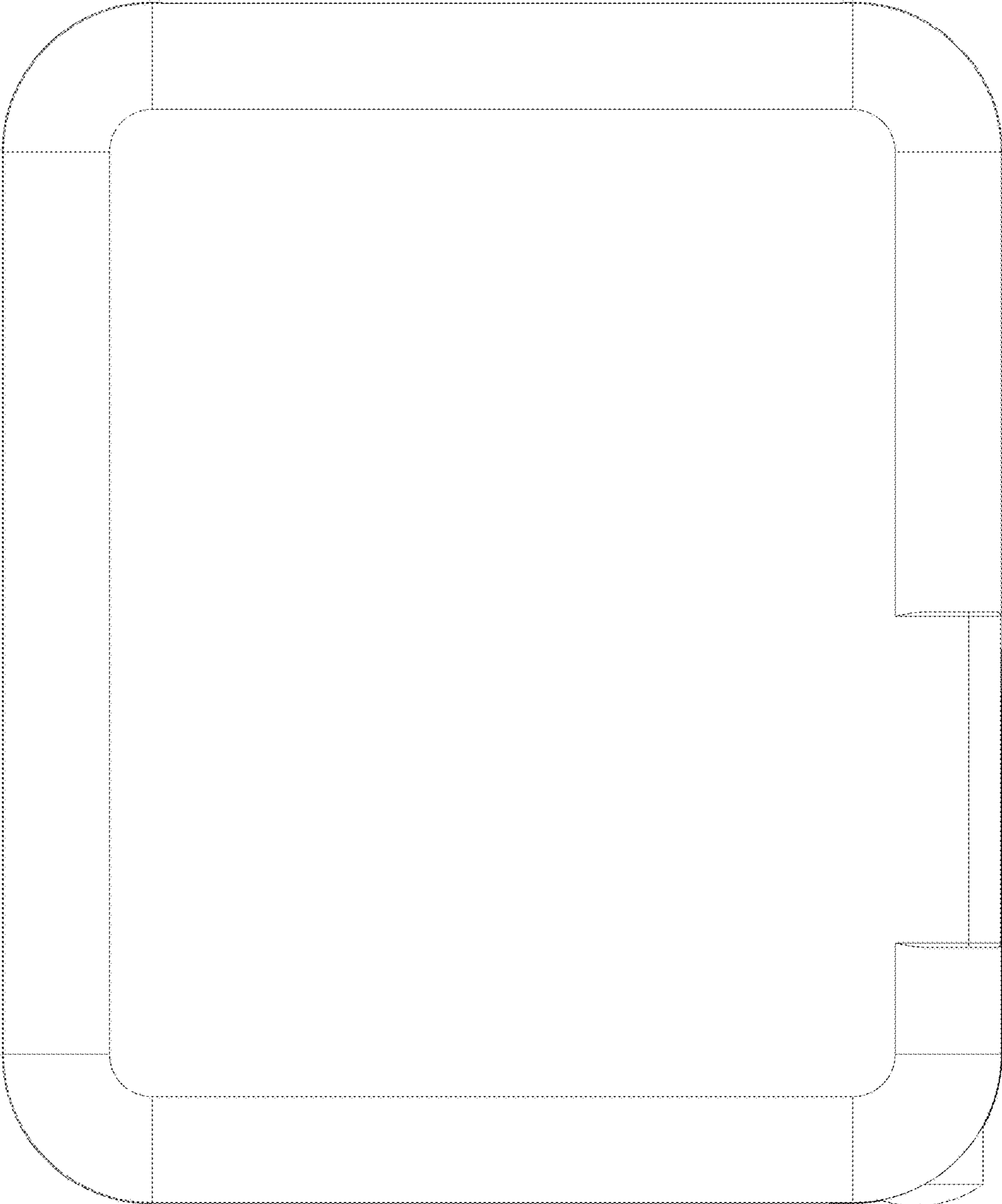


Fig. 6



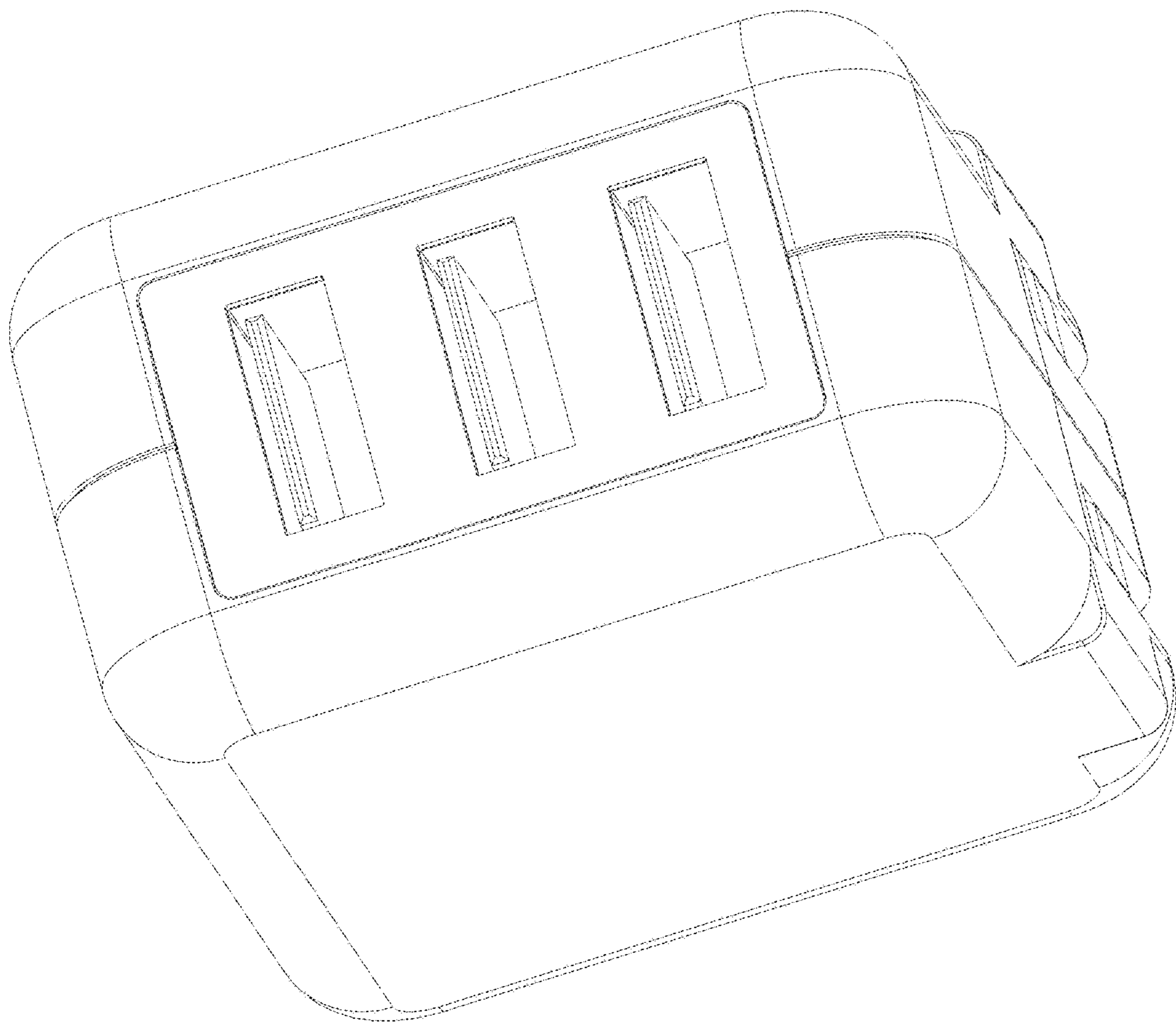


Fig. 7

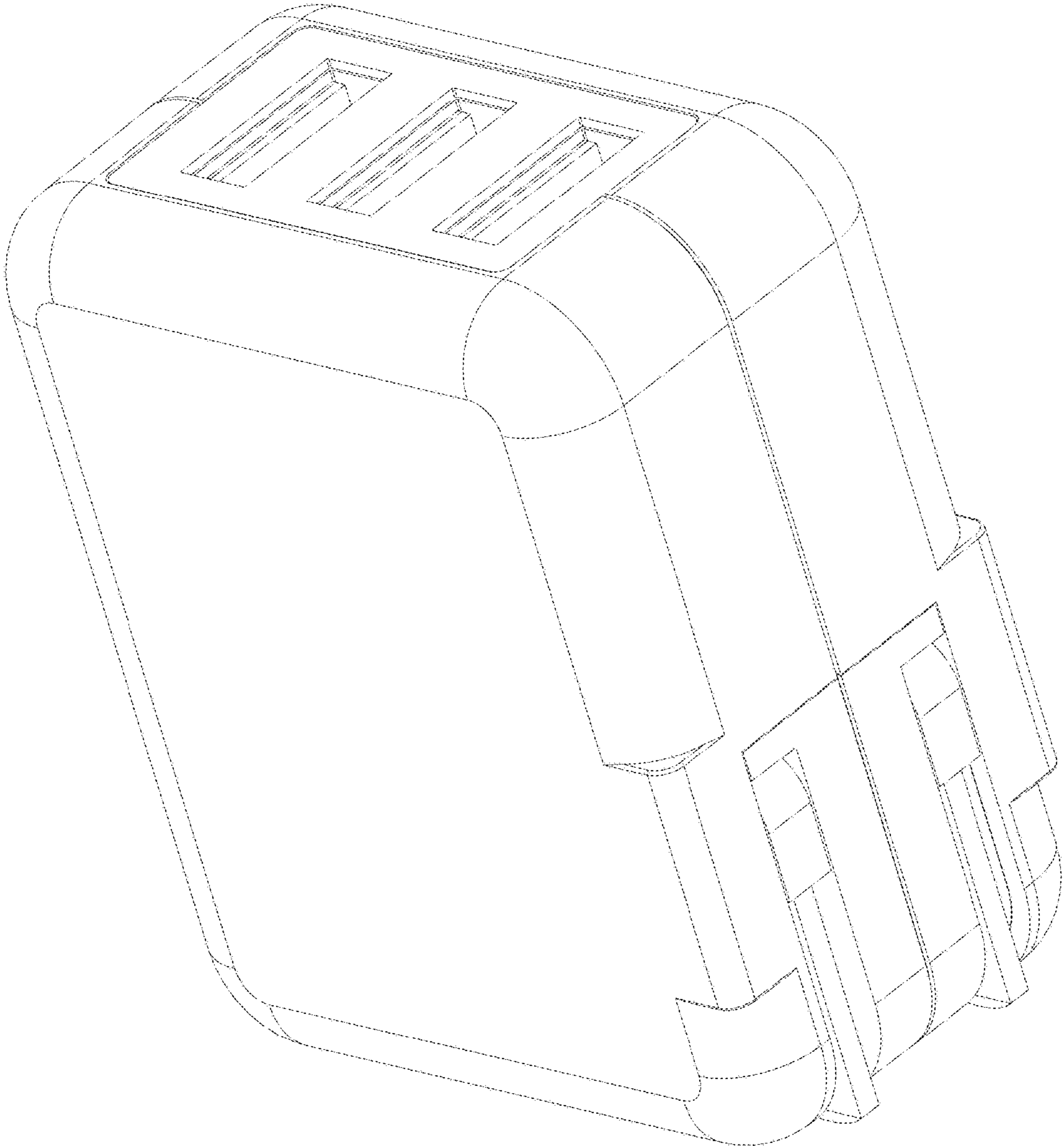


Fig. 8

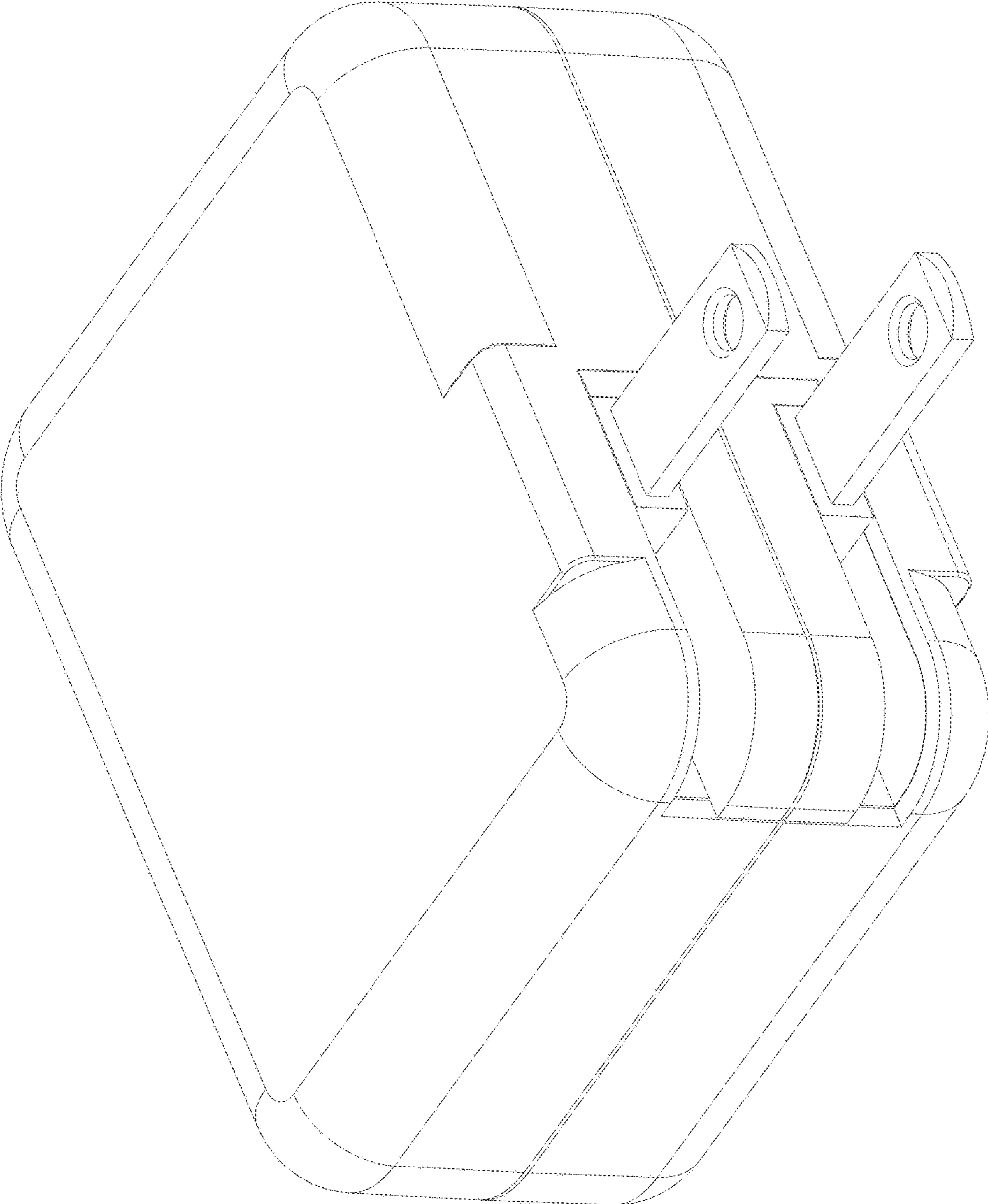


Fig. 9