



US00D880485S

(12) **United States Design Patent**
Zhu

(10) **Patent No.:** **US D880,485 S**

(45) **Date of Patent:** **** Apr. 7, 2020**

(54) **TABLET KEYBOARD CASE WITH
360-DEGREE BIAxIAL HINGE**

Primary Examiner — Cynthia R Underwood

(71) Applicant: **Dongguan Bluefinger Electronics Co.,
Limited, Dongguan (CN)**

(57) **CLAIM**

(72) Inventor: **Dajun Zhu, Dongguan (CN)**

The ornamental design for a tablet keyboard case with 360-degree biaxial hinge, as shown and described.

(73) Assignee: **Dongguan Bluefinger Electronics Co.,
Limited, DongGuan (CN)**

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

(21) Appl. No.: **29/633,472**

(22) Filed: **Jan. 14, 2018**

(51) **LOC (12) Cl.** **14-02**

(52) **U.S. Cl.**
USPC **D14/440**

(58) **Field of Classification Search**
USPC D14/440; 220/495; D3/294; 206/45.23,
206/320, 45.2; 361/679.55; 294/25;
224/218
CPC G06F 1/1628; A47B 23/044; H04B 1/3888
See application file for complete search history.

DESCRIPTION

FIG. 1 is a perspective view of a tablet keyboard case with 360-degree biaxial hinge showing my new design in one of the using positions;
FIG. 2 is a perspective view thereof, showing another using position;
FIG. 3 is a perspective view thereof, showing the third type of using position;
FIG. 4 is a front elevational view thereof;
FIG. 5 is a rear elevational view thereof;
FIG. 6 is a left side elevational view thereof;
FIG. 7 is a right side elevational view thereof;
FIG. 8 is a top plan view thereof;
FIG. 9 is a bottom plan view thereof;
FIG. 10 is a front elevational view of the tablet keyboard case with 360-degree biaxial hinge thereof, showing in open position;
FIG. 11 is a rear elevational view thereof;
FIG. 12 is a left side elevational view thereof;
FIG. 13 is a right side elevational view thereof;
FIG. 14 is a top plan view thereof;
FIG. 15 is a bottom plan view thereof;
FIG. 16 is a front elevational view thereof, showing the tablet keyboard case with 360-degree biaxial hinge in opened 360-degree position;
FIG. 17 is a rear elevational view thereof;
FIG. 18 is a left side elevational view thereof;
FIG. 19 is a right side elevational view thereof;
FIG. 20 is a top plan view thereof; and,
FIG. 21 is a bottom plan view thereof.

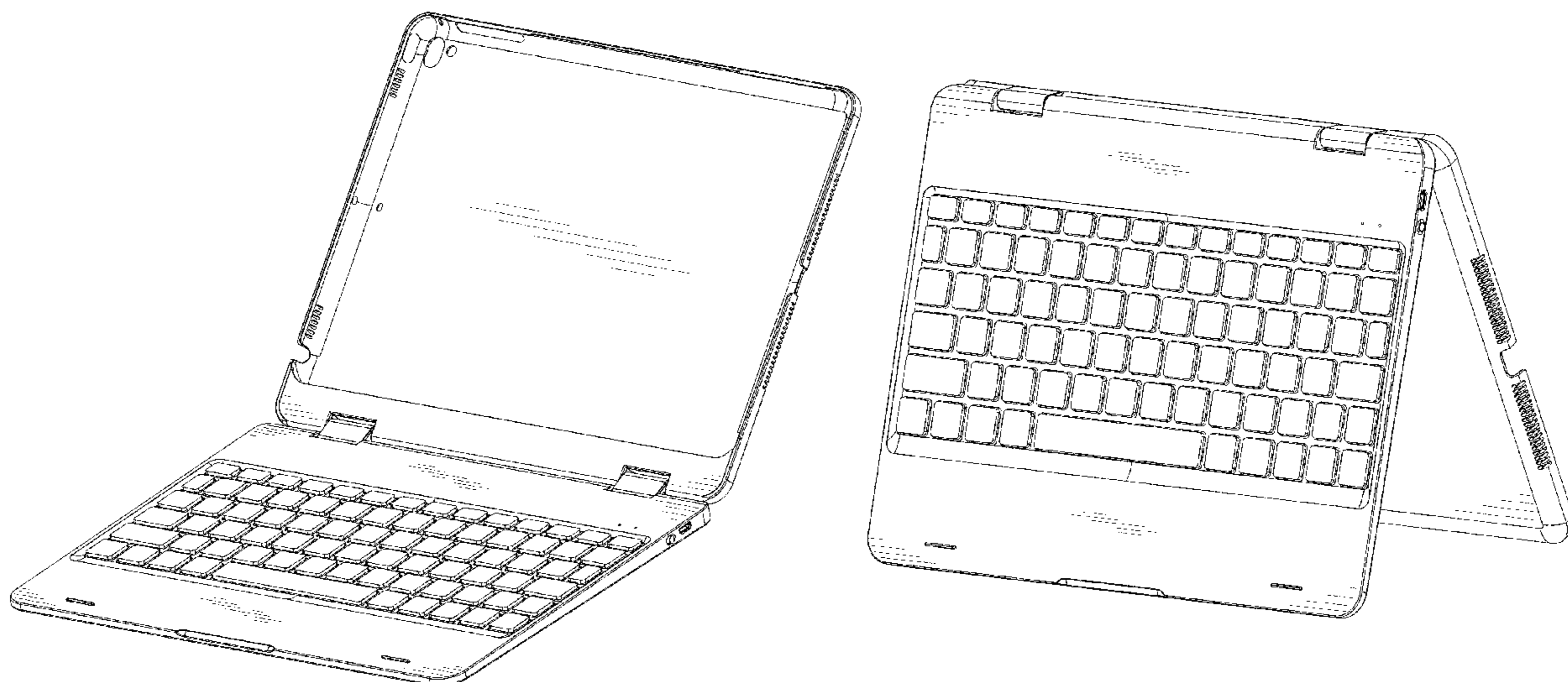
(56) **References Cited**

U.S. PATENT DOCUMENTS

D667,831 S *	9/2012	Stravitz	D14/447
D696,256 S *	12/2013	Piedra	D14/440
D696,669 S *	12/2013	Akana	D14/440
D700,611 S *	3/2014	Boldetti	D14/440
D719,169 S *	12/2014	McBroom	D14/440
8,905,231 B2 *	12/2014	Couch, III	A45C 11/00 206/320
8,960,421 B1 *	2/2015	Diebel	G06F 1/1679 206/320
D723,568 S *	3/2015	Kim	D14/440
D724,090 S *	3/2015	Kim	D14/440
D724,092 S *	3/2015	Zangari	D14/440
D727,916 S *	4/2015	Melmon	D14/440
D727,919 S *	4/2015	Melmon	D14/440

(Continued)

1 Claim, 15 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D729,253 S * 5/2015 Nyholm D14/440
 D733,152 S * 6/2015 Sirichai D14/440
 D734,340 S * 7/2015 Kim D14/440
 9,095,194 B2 * 8/2015 Hassett A45C 11/00
 D744,489 S * 12/2015 Sirichai D14/440
 D744,492 S * 12/2015 Lin G06F 1/1632
 D753,648 S * 4/2016 Shyu D14/315
 D754,666 S * 4/2016 Tiffen D14/440
 9,307,062 B2 * 4/2016 Kim H04M 1/04
 D764,472 S * 8/2016 Corcoran D14/440
 D772,880 S * 11/2016 Corcoran D14/440
 9,489,054 B1 * 11/2016 Sumsion G06F 3/0208
 D773,470 S * 12/2016 Akana D14/440
 D779,485 S * 2/2017 Akana D14/345
 9,578,941 B2 * 2/2017 MacLachlan F16M 11/38
 D789,342 S * 6/2017 Sirichai D14/250
 D792,887 S * 7/2017 Zhang D14/440
 9,717,314 B2 * 8/2017 Idehara A45C 11/00
 D807,363 S * 1/2018 Hallier D14/440
 D807,365 S * 1/2018 Liu D14/440
 D807,892 S * 1/2018 Wang D14/440
 D808,394 S * 1/2018 Lakraa D14/440
 D808,395 S * 1/2018 Fenton D14/440
 D811,390 S * 2/2018 Kim D14/345
 D811,411 S * 2/2018 Moore D14/440
 D818,263 S * 5/2018 Broadhurst D3/218
 D819,038 S * 5/2018 Diebel D14/440
 D820,839 S * 6/2018 Akana D14/345
 D822,675 S * 7/2018 Zhu D14/455
 2007/0057140 A1 * 3/2007 Liou F16M 11/10
 2008/0029412 A1 * 2/2008 Ho A47B 21/0314
 2008/0167095 A1 * 7/2008 Kim H04M 1/0216
 455/575.3

2009/0159763 A1 * 6/2009 Kim F16M 13/00
 248/174
 2009/0178938 A1 * 7/2009 Palmer A45C 5/03
 206/45.23
 2009/0194209 A1 * 8/2009 De Filippis A45C 11/00
 150/107
 2009/0201254 A1 * 8/2009 Rais G06F 1/1613
 345/168
 2010/0294909 A1 * 11/2010 Hauser A47B 23/043
 248/456
 2010/0300909 A1 * 12/2010 Hung H04M 1/04
 206/320
 2011/0227463 A1 * 9/2011 Hou A45C 9/00
 312/223.1
 2011/0266194 A1 * 11/2011 Bau A45C 11/00
 206/736
 2011/0290687 A1 * 12/2011 Han A45C 3/02
 206/320
 2011/0297566 A1 * 12/2011 Gallagher F16M 11/105
 206/320
 2012/0140396 A1 * 6/2012 Zelif G06F 1/1628
 361/679.09
 2013/0140194 A1 * 6/2013 Han G06F 1/1656
 206/45.23
 2013/0233762 A1 * 9/2013 Balaji B65D 25/00
 206/736
 2013/0264459 A1 * 10/2013 McCosh G06F 1/1626
 248/688
 2014/0291175 A1 * 10/2014 Chung G06F 1/1656
 206/45.23
 2015/0296060 A1 * 10/2015 Gu H04M 1/0235
 455/575.4
 2015/0296068 A1 * 10/2015 Chin G06F 1/1628
 455/575.8
 2016/0011628 A1 * 1/2016 Sato G06F 1/1656
 361/679.3
 2016/0187937 A1 * 6/2016 Ahee G06F 1/1681
 361/679.09

* cited by examiner

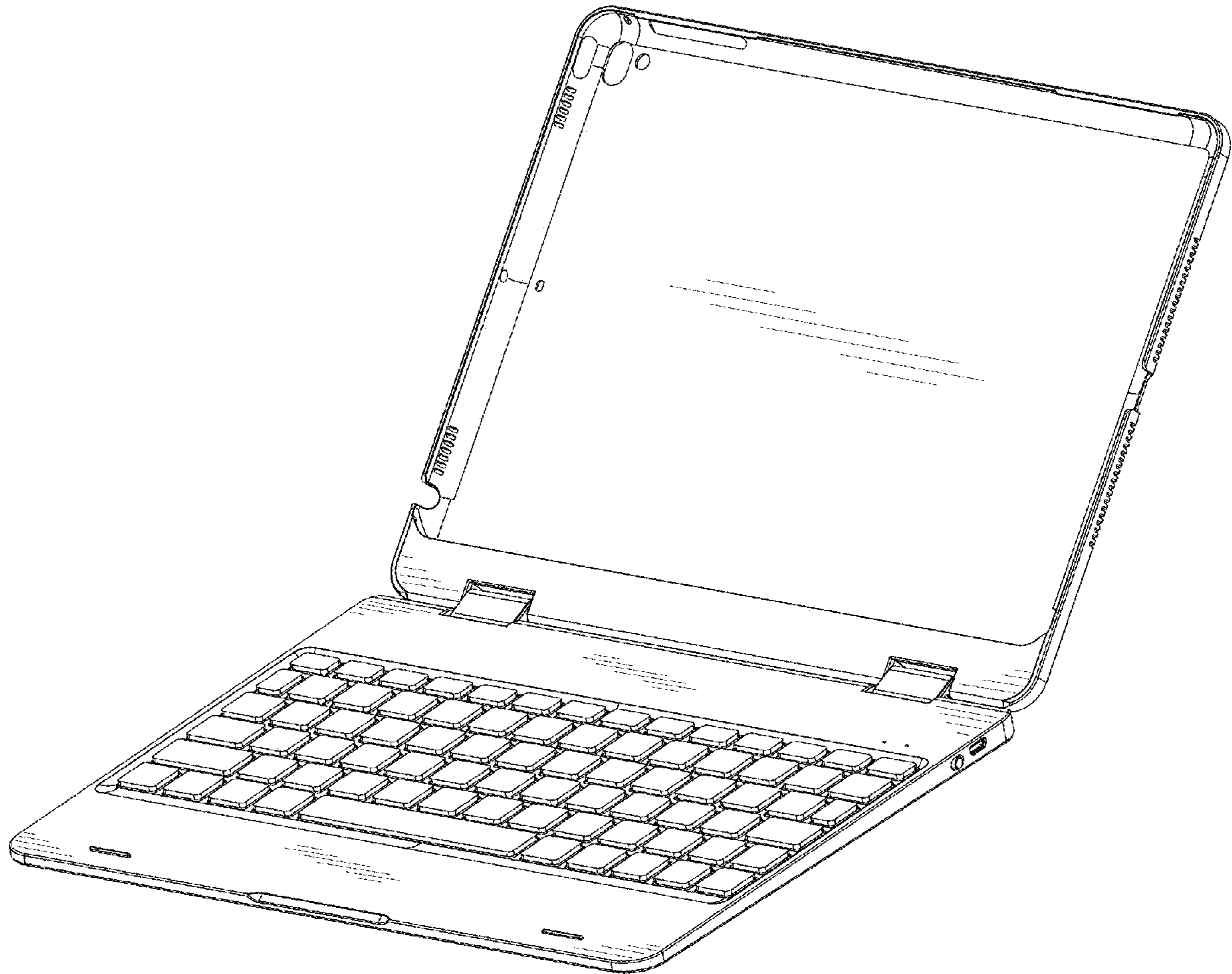


FIG. 1

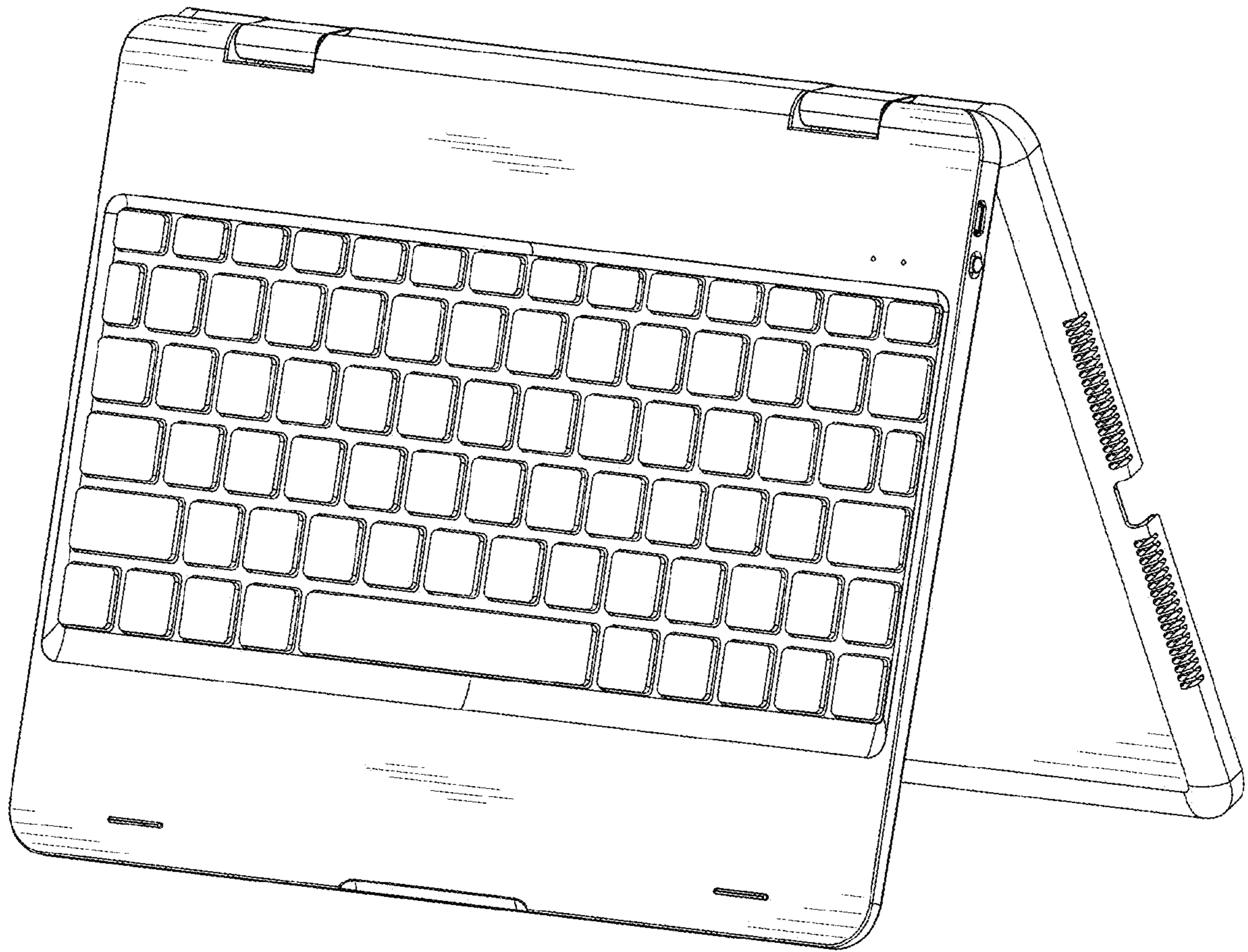


FIG. 2

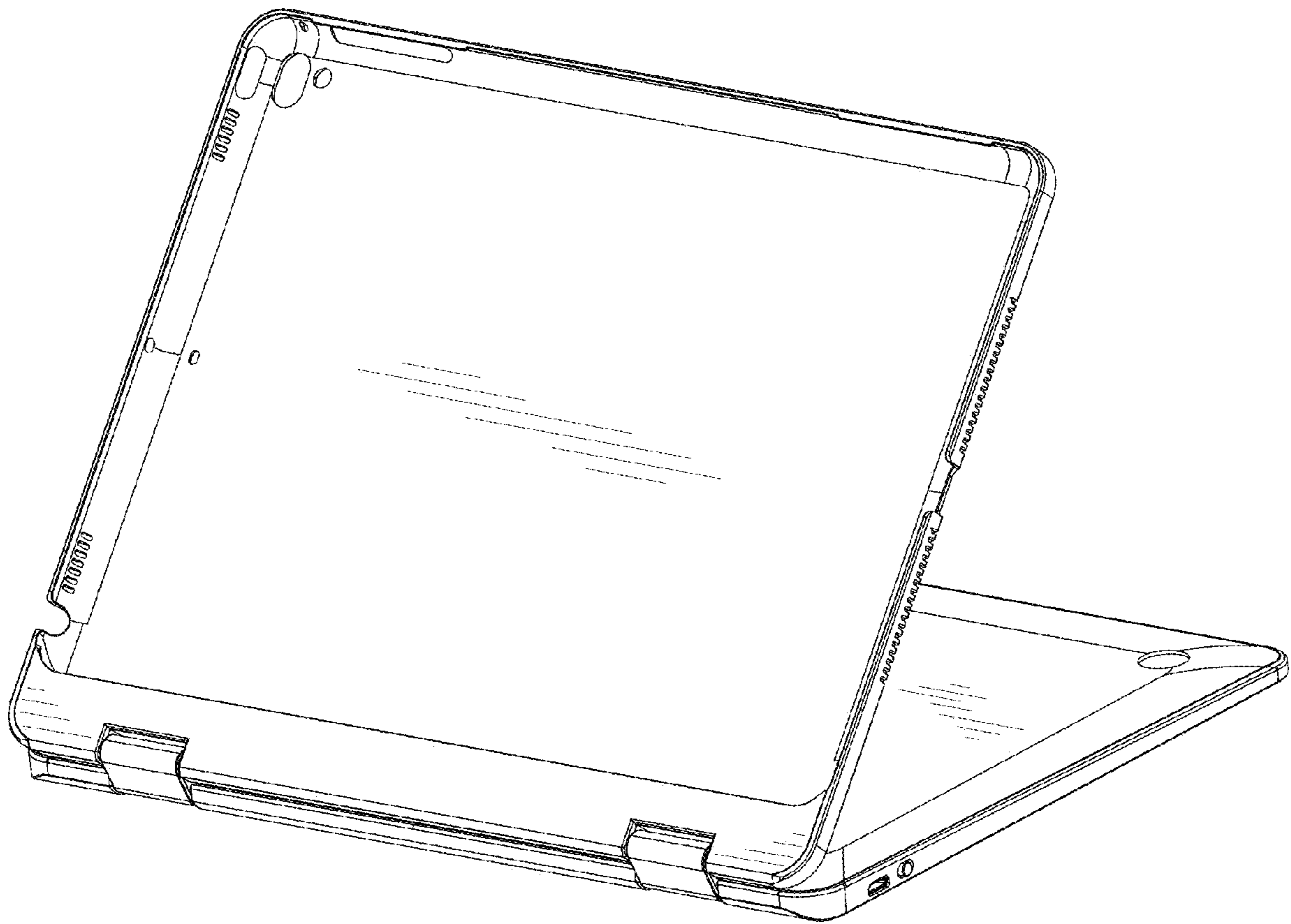


FIG. 3

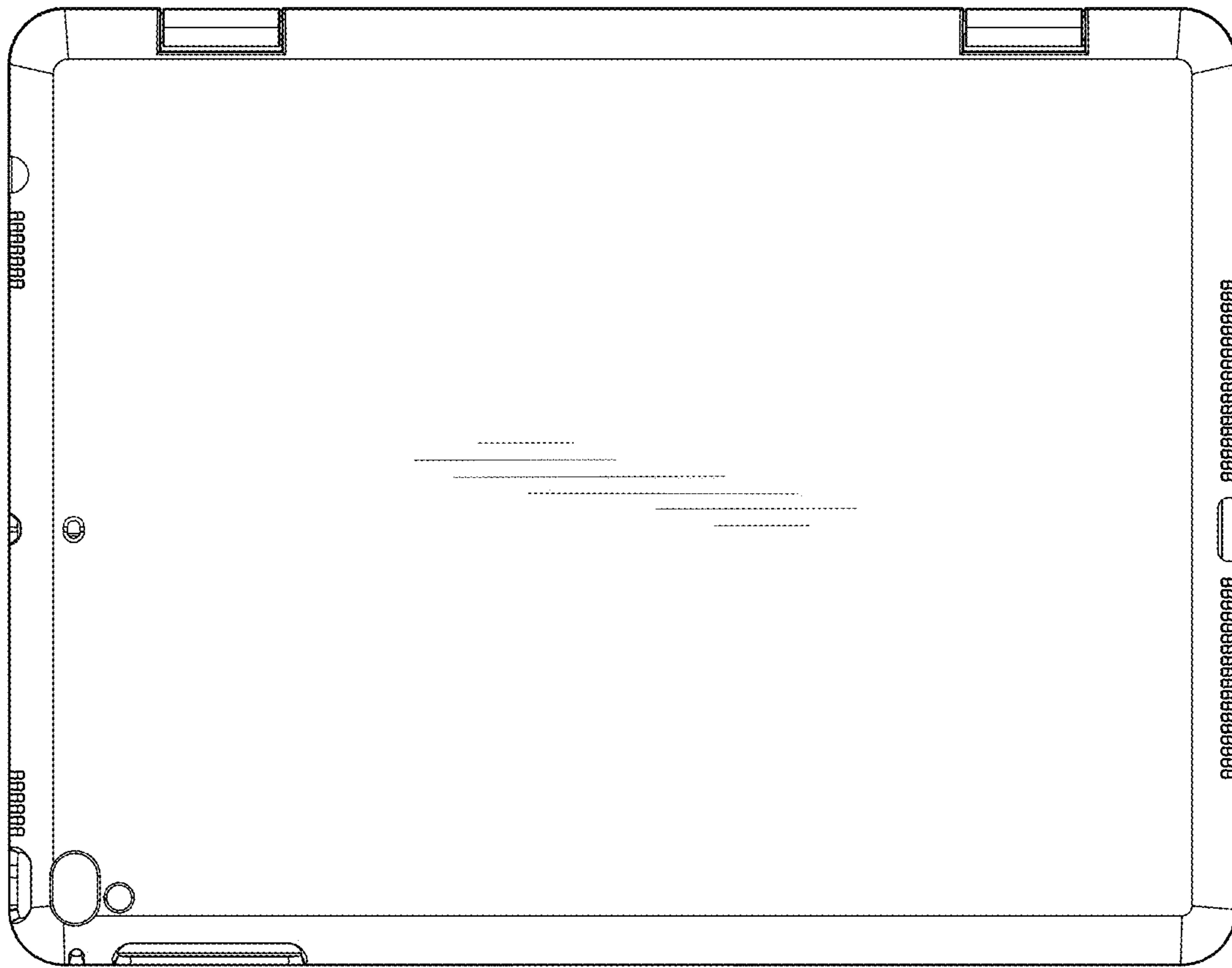


FIG. 4

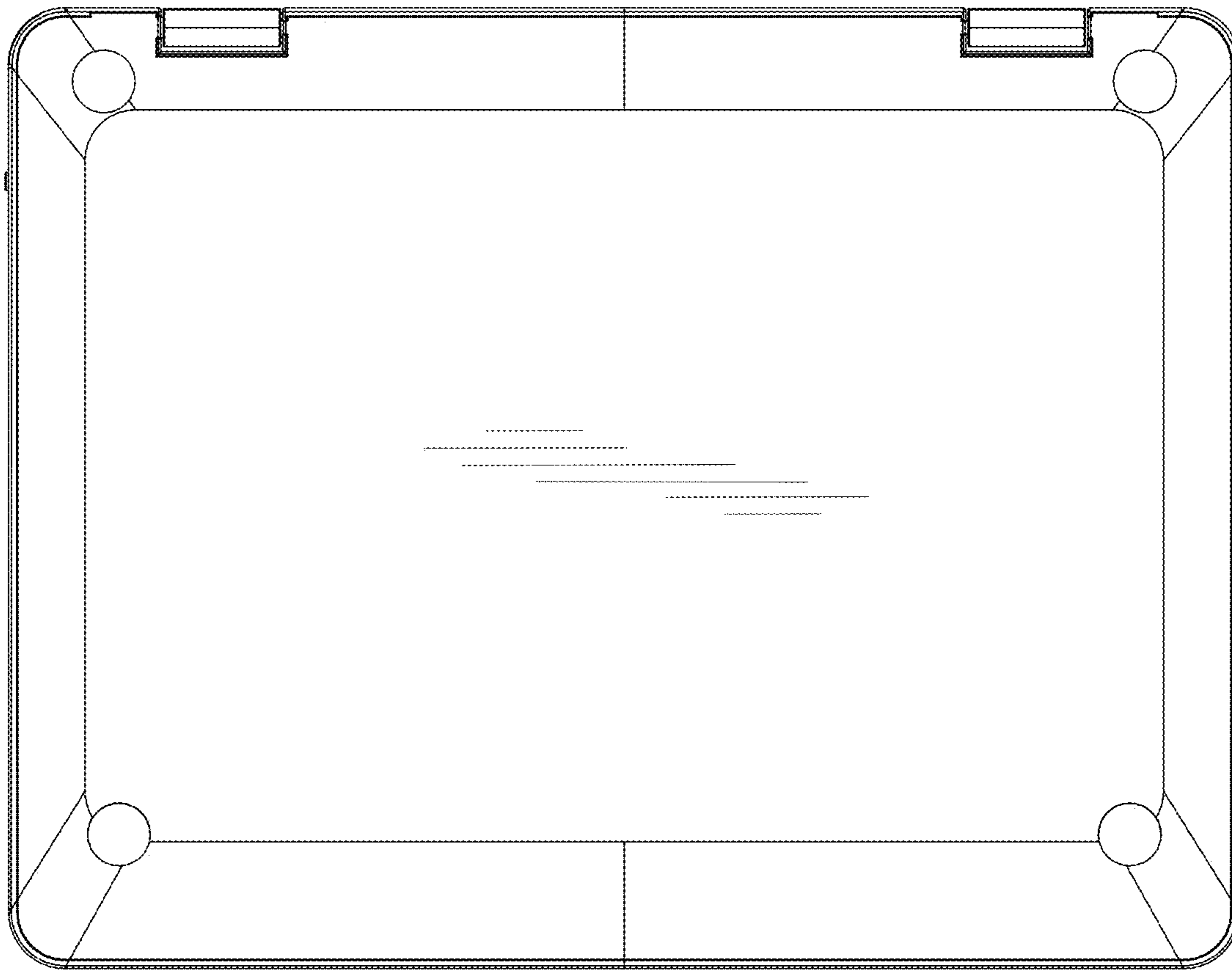


FIG. 5

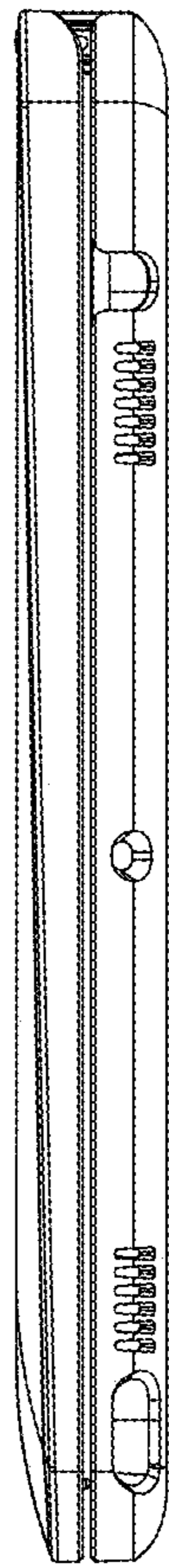


FIG. 6

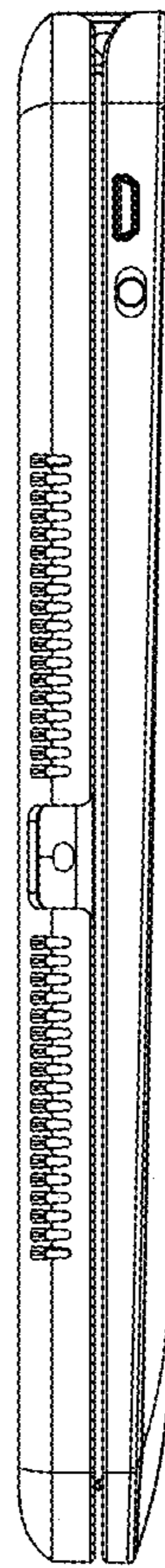


FIG. 7

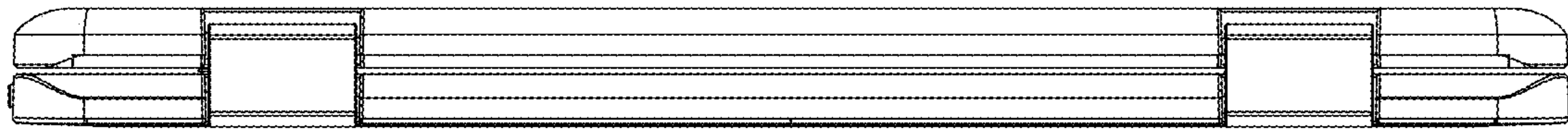


FIG. 8

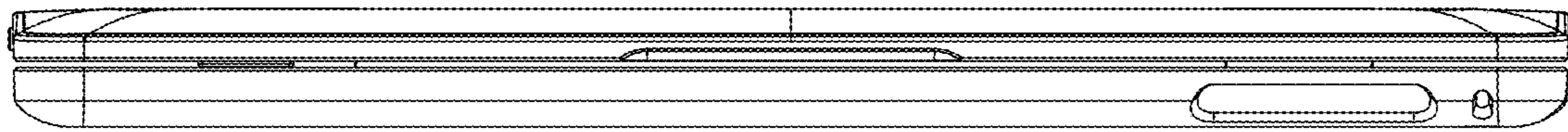


FIG. 9

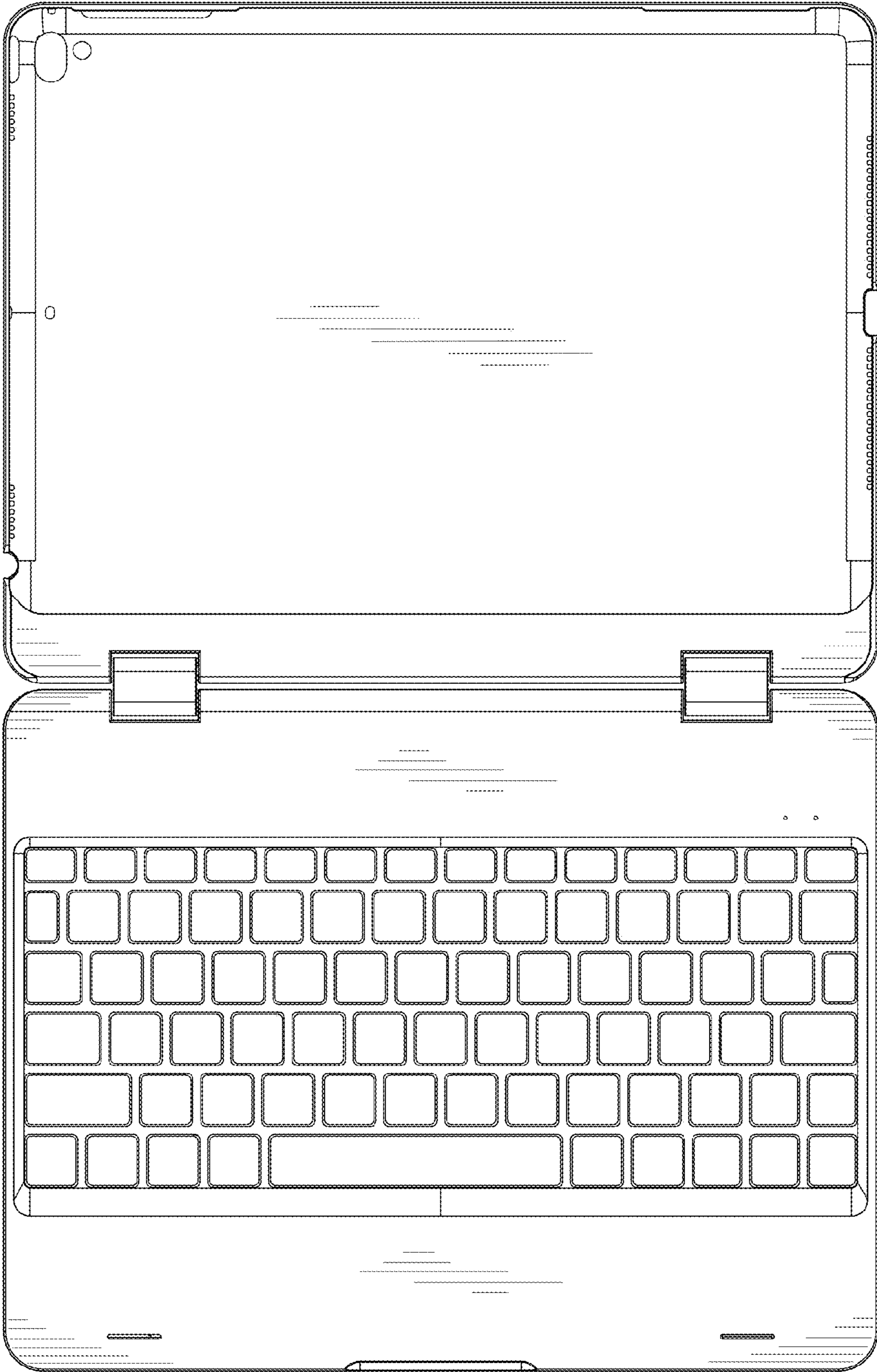


FIG. 10

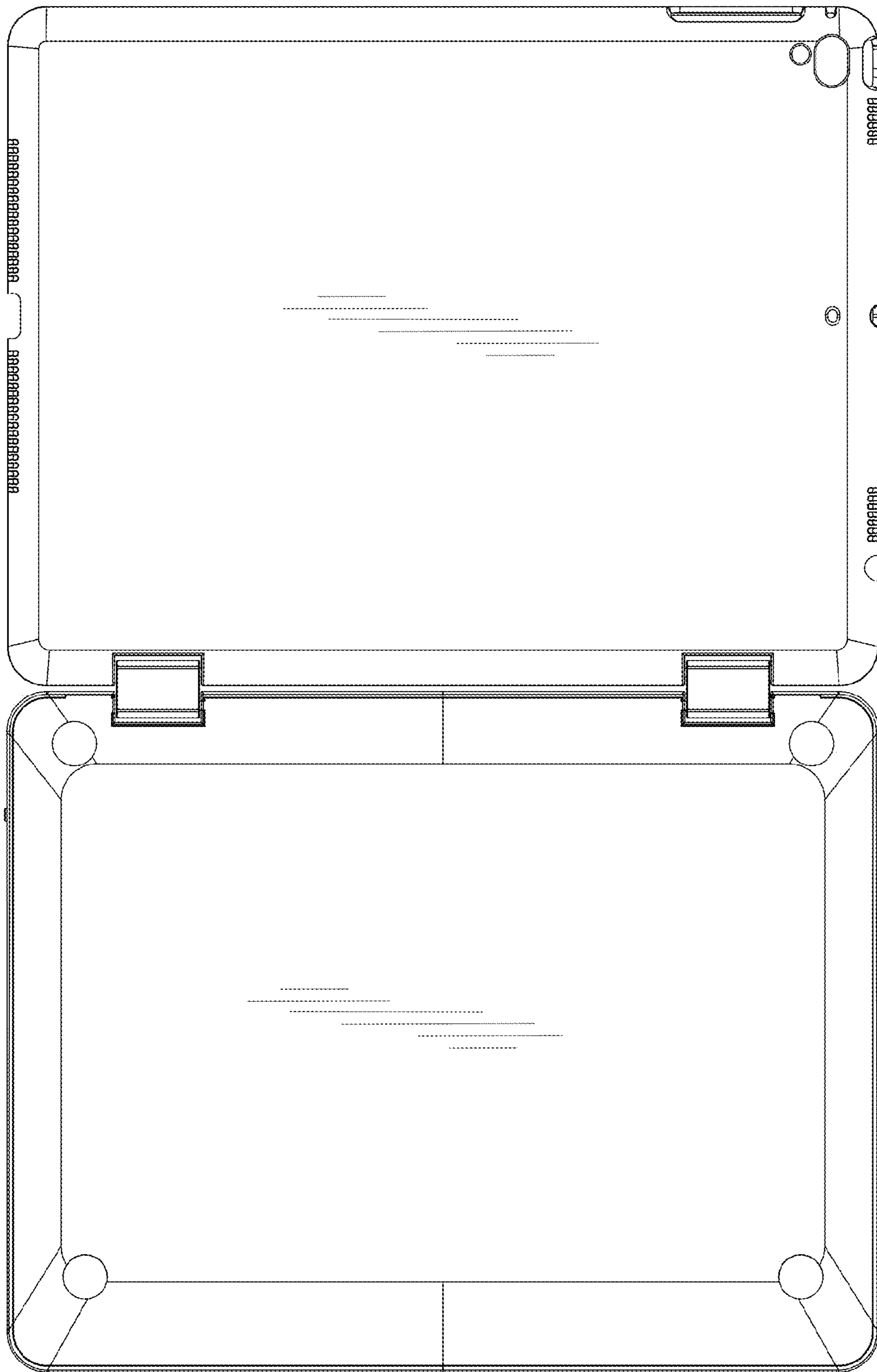


FIG. 11

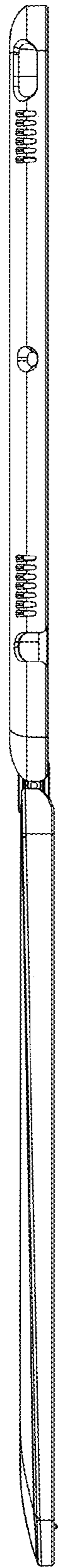


FIG. 12



FIG. 13

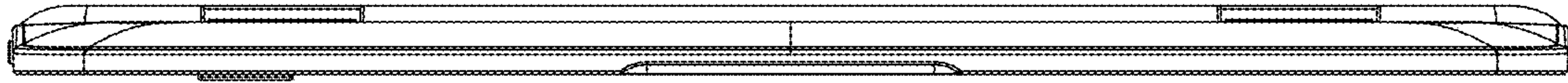


FIG. 14

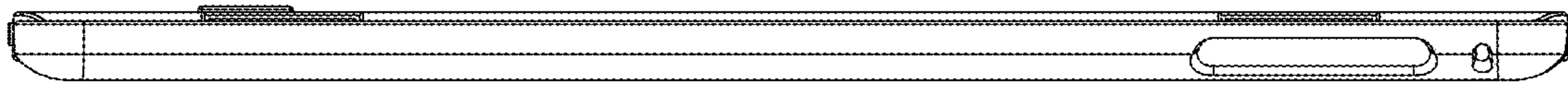


FIG. 15

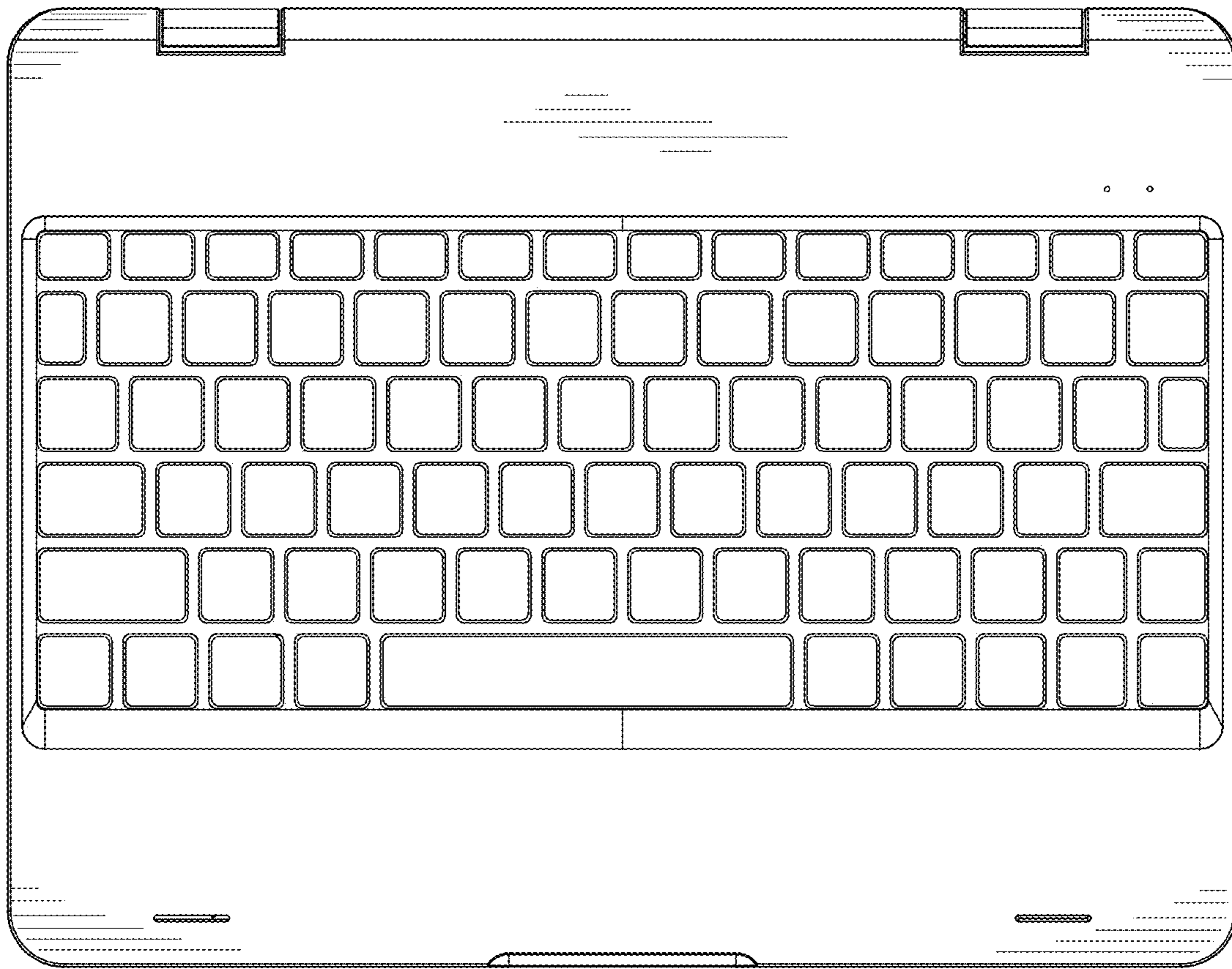


FIG. 16

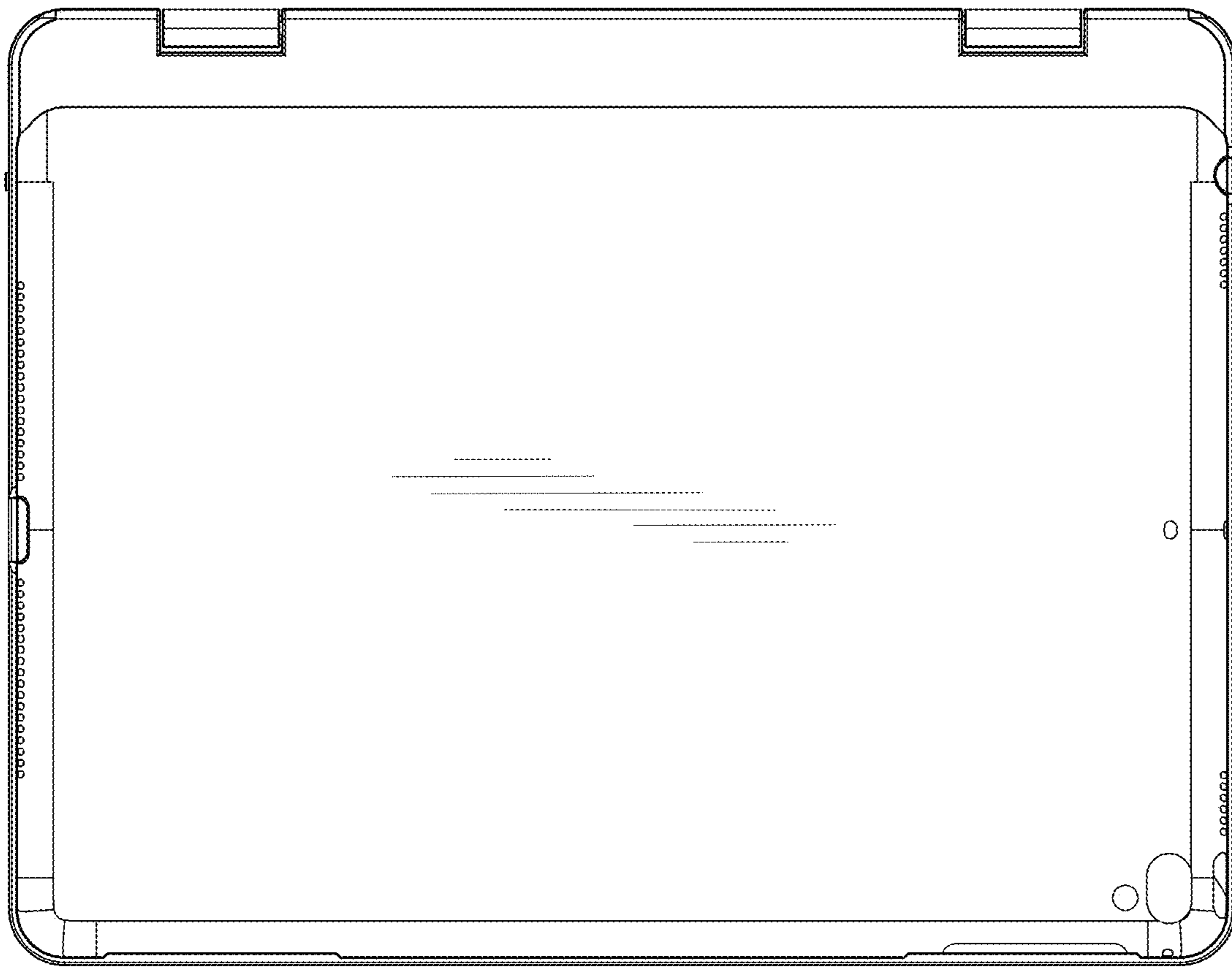


FIG. 17

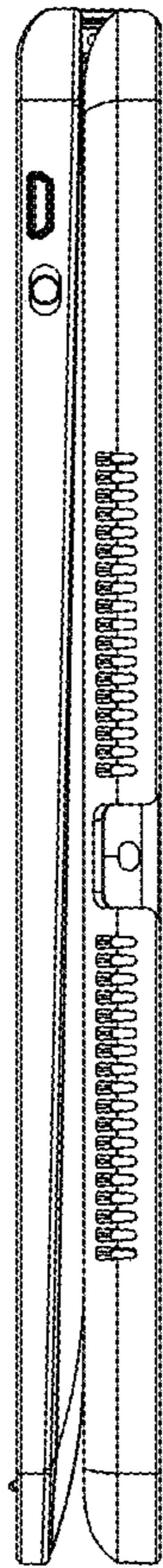


FIG. 18

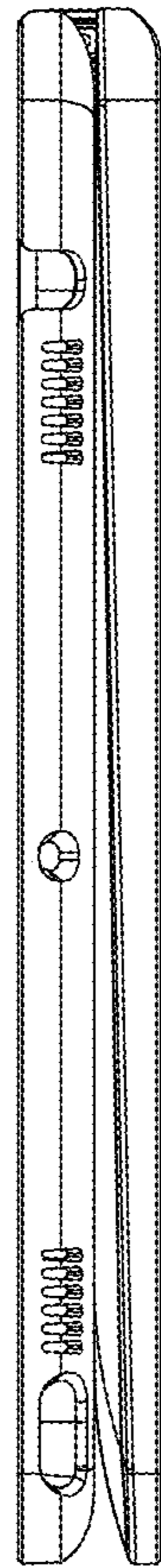


FIG. 19



FIG. 20

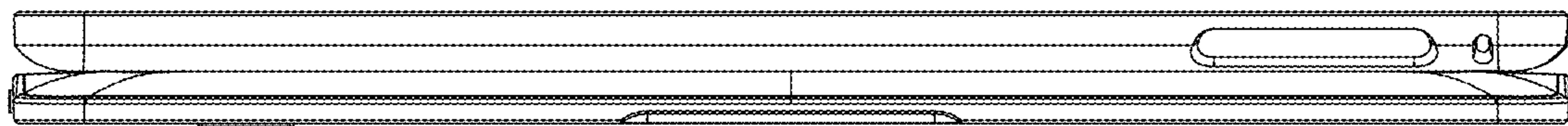


FIG. 21