



US00D960161S

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

(10) **Patent No.:** **US D960,161 S**  
(45) **Date of Patent:** **\*\* Aug. 9, 2022**

(54) **SMART SCANNING DEVICE**

(71) Applicant: **ADVANCED NEW TECHNOLOGIES CO., LTD.**, Grand Cayman (KY)

(72) Inventors: **Mingwei Zhang**, Hangzhou (CN); **Fenghuan Gu**, Hangzhou (CN)

(73) Assignee: **ADVANCED NEW TECHNOLOGIES CO., LTD.**, George Town (KY)

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

(21) Appl. No.: **29/715,006**

(22) Filed: **Nov. 27, 2019**

(30) **Foreign Application Priority Data**

May 30, 2019 (CN) ..... 201930274801.0

(51) **LOC (13) Cl.** ..... **14-02**

(52) **U.S. Cl.**  
USPC ..... **D14/426**

(58) **Field of Classification Search**  
USPC ..... D14/420, 426-430, 453, 346, 341, 347, D14/412, 138; D13/107, 184; 358/473; 235/462.43, 462.45, 462.47, 462.48, 235/462.44, 462.46, 487, 472.01, 472.02, 235/145 A, 145 R; D10/78, 57, 2, 46, 52, D10/53, 81; 324/426; D3/273; 710/73; D18/7; 361/679, 728, 679.56; 382/313, 382/321; 455/575.1, 561, 572, 41.2; 345/156, 168, 169, 172, 173, 87; 705/17, 705/18, 22-25; D16/206, 218, 202, 219, D16/208, 209; 356/328; 396/419, 423, 396/424; 374/130, 100, 121, 102, 141, 374/124, 170, 104, 103; 702/130, 135; 348/164, 165, 149, 333.01, 333.11, 33, 348/82, 347, 373, 374, 375; 250/330, 250/351, 353, 332, 334, 358.1, 316.1, 250/338.1; 600/549, 474, 413, 473, 200, 600/184

CPC ..... G06F 1/626; G06F 1/1626; G06F 1/1656; G06F 1/1632; G06F 1/1684; G06F 1/1635; G06F 8/63; G06F 17/30091; G06F 9/4401; G06K 7/10881; G06K 7/1098; G06K 7/10722; G06K 7/1404; G06K 7/0004; G06K 7/10633; G06K 7/10851; G06K 7/1091; G06K 7/1092; G06K 7/1093; G06K 7/10; G06K 7/109; G06K 7/1417; G06K 9/228; G06K 17/0022; G06K 17/00; G06K  
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D210,668 S \* 4/1968 Janda ..... D14/248  
D266,561 S \* 10/1982 Bee ..... D14/248  
(Continued)

*Primary Examiner* — Susan Moon Lee

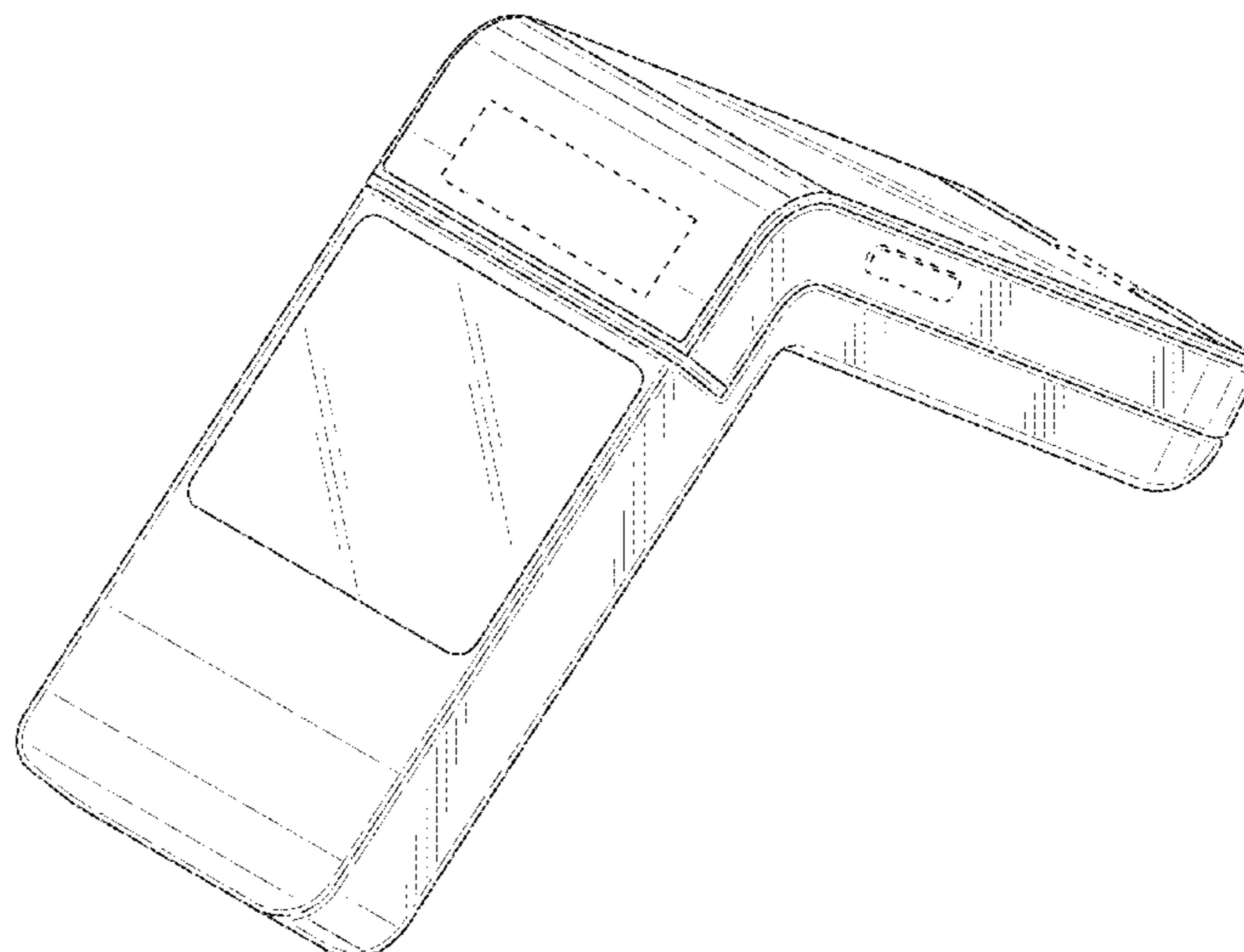
(57) **CLAIM**

The ornamental design for a smart scanning device, as shown and described.

**DESCRIPTION**

FIG. 1 is a front view showing an embodiment of the smart scanning device;  
FIG. 2 is a rear view thereof;  
FIG. 3 is a left-side view thereof;  
FIG. 4 is a right-side view thereof;  
FIG. 5 is a top view thereof;  
FIG. 6 is a bottom view thereof;  
FIG. 7 is a perspective view thereof; and,  
FIG. 8 is an exploded view thereof.  
The broken lines in FIGS. 1-8 illustrate portions of the smart scanning device that are not part of the claimed design. Any shading and cross-hatching are not features of the design but are utilized to illustrate the surface contours of the smart scanning device.

**1 Claim, 8 Drawing Sheets**



**US D960,161 S**

**(58) Field of Classification Search**

CPC ..... 2207/1011; G06K 2207/1013; G06K  
 2207/1016; G06K 2207/1018; G06K  
 2017/0051; G06K 2017/0067; G06K  
 2007/10524; G07G 1/0081; G07G 1/009;  
 G06Q 20/20; G06Q 20/201; G06Q  
 20/202; G06Q 20/203; G06Q 20/30;  
 G06Q 20/32; G06Q 20/322; G06Q  
 20/4014; G06Q 10/087; H04N 1/00127;  
 H04N 1/00135; H04N 1/00326; H04N  
 1/00334; H04N 1/00307; H04N 1/107;  
 H04N 2201/0084; H04N 2101/00; H04N  
 5/332; H04N 5/33; H04N 5/2251; H04N  
 5/2258; H04N 5/2256; H04N 5/23293;  
 H04N 5/23203; H04N 5/2254; H04N  
 5/2252; H04N 5/2253; H04N 5/23229;  
 H04N 5/3651; H04M 1/0249; H04M  
 1/0262; H04M 1/0266; H04M 1/18;  
 H04M 1/23; H04M 1/236; H04B 1/3827;  
 H04B 1/3833; H04B 1/3877; H04B  
 1/3883; H04B 1/3888; H04B 2001/3894;  
 H01M 2/1066; G01J 5/025; G01J 5/0265;  
 G01J 5/026; G01J 5/027; G01J 5/02;  
 G01J 5/06; G01J 5/08; G01J 5/04; G01J  
 5/12; G01J 5/00; G01J 5/18; G01J  
 5/0834; G01J 5/522; G01J 5/0806; G01J  
 5/028; G01J 2005/0077; G01J 2005/0081;  
 G02B 7/08; G02B 7/04; G01K 1/02;  
 G01K 3/04; G03B 17/18; G03B 3/02;  
 G03B 3/04; G03B 3/10

See application file for complete search history.

**(56)**

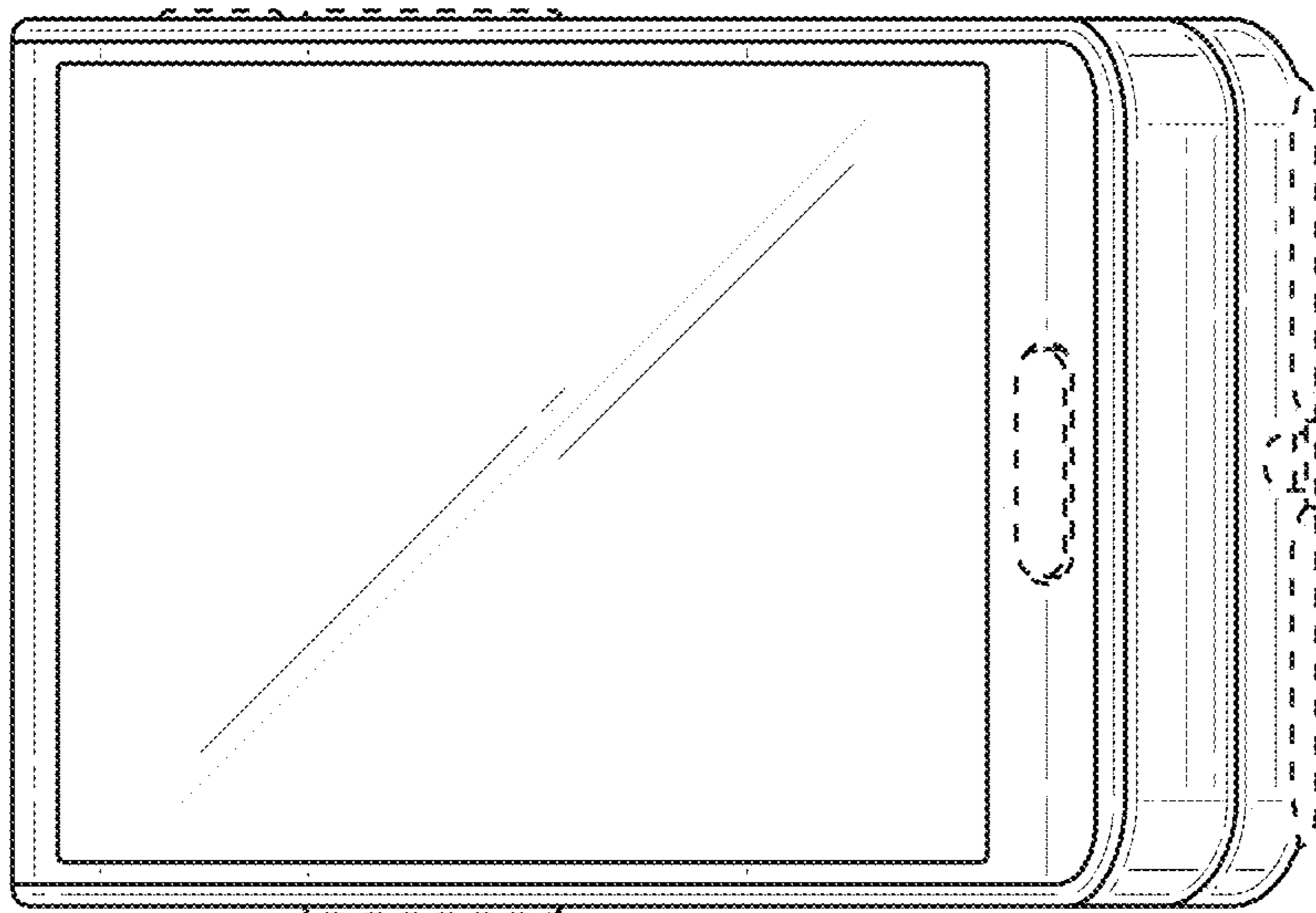
**References Cited**

**U.S. PATENT DOCUMENTS**

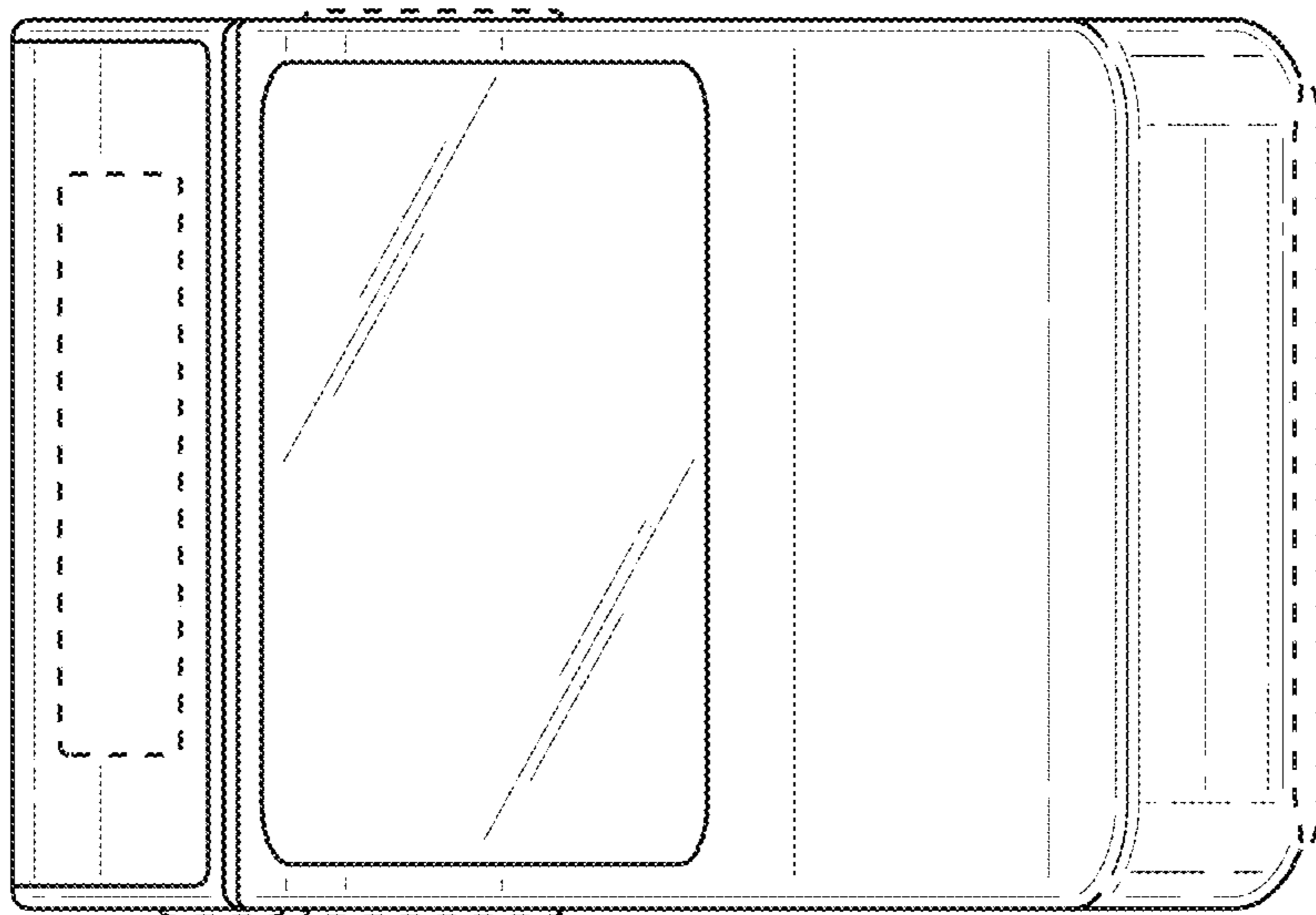
D271,393 S \* 11/1983 Carr ..... D14/248  
 D282,659 S \* 2/1986 Abrams ..... D14/248  
 D289,291 S \* 4/1987 Kapper ..... D14/389  
 4,656,345 A \* 4/1987 Kurimoto ..... G06K 7/10881  
 235/455  
 D293,795 S \* 1/1988 Yamamoto ..... D14/428  
 4,736,411 A \* 4/1988 Chan ..... H04M 1/02  
 379/434  
 D297,732 S \* 9/1988 Chan ..... D14/149  
 D299,028 S \* 12/1988 Hermann ..... D14/344  
 D299,135 S \* 12/1988 Rhodes ..... D14/248  
 4,818,847 A \* 4/1989 Hara ..... G06K 7/12  
 235/455  
 4,818,856 A \* 4/1989 Matsushima ..... G06K 7/10881  
 235/462.11  
 D307,894 S \* 5/1990 Siemiatkowski ..... D14/426  
 4,930,848 A \* 6/1990 Knowles ..... G06K 7/10881  
 235/462.45  
 D315,901 S \* 4/1991 Knowles ..... D14/428  
 D319,436 S \* 8/1991 Matsushita ..... D14/428  
 D320,981 S \* 10/1991 Conversano ..... D14/431  
 5,132,523 A \* 7/1992 Bassett ..... G06K 7/10871  
 235/455  
 5,155,346 A \* 10/1992 Doing ..... G06K 7/10871  
 235/462.43  
 D331,576 S \* 12/1992 Yamanaka ..... D14/428  
 5,184,005 A \* 2/1993 Ukai ..... G06K 7/10881  
 235/462.27  
 D340,042 S \* 10/1993 Copper ..... D14/388

5,256,866 A \* 10/1993 Conversano ..... G06K 7/10881  
 235/462.49  
 D341,584 S \* 11/1993 Shepard ..... D14/428  
 D342,064 S \* 12/1993 Harden ..... D14/426  
 D352,704 S \* 11/1994 Etoh ..... D14/426  
 D352,935 S \* 11/1994 Etoh ..... D14/428  
 D353,134 S \* 12/1994 Etoh ..... D14/426  
 5,546,471 A \* 8/1996 Merjanian ..... G07C 9/37  
 382/126  
 D374,440 S \* 10/1996 Kanno ..... D14/428  
 5,844,228 A \* 12/1998 Nukui ..... G06K 7/1092  
 200/332.2  
 D406,126 S \* 2/1999 Massieu ..... D14/428  
 5,883,375 A \* 3/1999 Knowles ..... G06K 17/0022  
 235/462.43  
 D408,383 S \* 4/1999 Carter ..... D14/374  
 5,929,425 A \* 7/1999 Kanno ..... G06K 17/0022  
 235/462.46  
 6,338,434 B1 \* 1/2002 Wilz, Sr. .... G06K 7/10851  
 235/472.01  
 6,761,317 B1 \* 7/2004 Knowles ..... G06K 7/10603  
 235/487  
 D518,482 S \* 4/2006 Hodges ..... D14/426  
 D535,993 S \* 1/2007 Ueda ..... D14/480.7  
 7,161,470 B2 \* 1/2007 Berquist ..... G06K 17/00  
 340/10.5  
 D583,822 S \* 12/2008 Matsumoto ..... D14/453  
 D589,531 S \* 3/2009 Fullerton ..... D14/496  
 D601,052 S \* 9/2009 Friedli ..... D10/108  
 D613,296 S \* 4/2010 Hattori ..... D14/453  
 D616,445 S \* 5/2010 Wong ..... D14/402  
 D618,355 S \* 6/2010 Delaey ..... D24/185  
 D626,550 S \* 11/2010 Julien ..... D14/341  
 D626,551 S \* 11/2010 Julien ..... D14/341  
 D642,577 S \* 8/2011 Kim ..... D14/410  
 D669,119 S \* 10/2012 Sato ..... D18/50  
 8,550,915 B2 \* 10/2013 Ashida ..... A63F 13/02  
 345/161  
 8,591,333 B2 \* 11/2013 Ashida ..... A63F 13/98  
 345/161  
 D710,362 S \* 8/2014 Kaminsky ..... D14/426  
 D717,785 S \* 11/2014 Winston ..... D14/307  
 D719,955 S \* 12/2014 Hsu ..... D14/428  
 D734,308 S \* 7/2015 Jeon ..... D14/248  
 D734,309 S \* 7/2015 Moon ..... D14/248  
 D762,766 S \* 8/2016 Bedier ..... D18/4.4  
 9,444,145 B2 \* 9/2016 Chan ..... H01Q 9/285  
 D821,399 S \* 6/2018 Jones ..... D14/402  
 D822,026 S \* 7/2018 Jones ..... D14/407  
 D851,653 S \* 6/2019 Huang ..... D14/428  
 D880,580 S \* 4/2020 Wang ..... D18/4.6  
 D883,286 S \* 5/2020 Sieckowski ..... D14/428  
 D895,622 S \* 9/2020 Sieckowski ..... D14/428  
 D897,335 S \* 9/2020 Kraus ..... D14/299  
 10,789,437 B1 \* 9/2020 Zhang ..... G06K 7/109  
 10,970,505 B2 \* 4/2021 Zhang ..... G06K 7/109  
 D946,649 S \* 3/2022 Wang ..... D18/4.6  
 2002/0109010 A1 \* 8/2002 Wilz ..... G06K 7/10851  
 235/462.45  
 2003/0222150 A1 \* 12/2003 Sato ..... G06K 7/1098  
 235/472.02  
 2008/0015017 A1 \* 1/2008 Ashida ..... A63F 13/98  
 463/37  
 2009/0312053 A1 \* 12/2009 An ..... G06K 7/10386  
 455/556.2  
 2015/0063795 A1 \* 3/2015 Orton ..... F16M 13/00  
 396/425  
 2015/0255873 A1 \* 9/2015 Chan ..... H01Q 9/285  
 29/600  
 2018/0173911 A1 \* 6/2018 Murofushi ..... G06K 19/0772  
 2019/0278958 A1 \* 9/2019 Ioki ..... G06K 7/10009

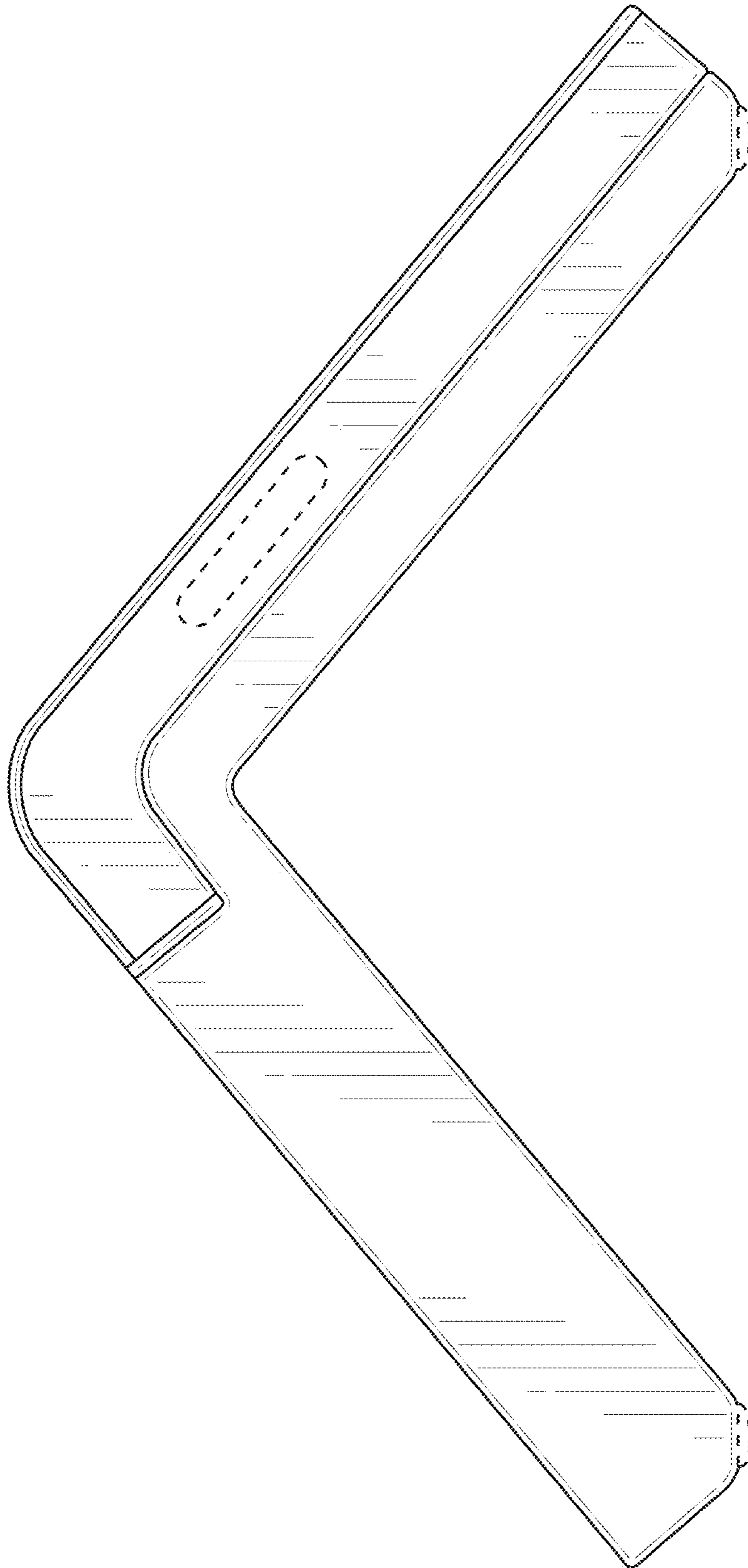
\* cited by examiner



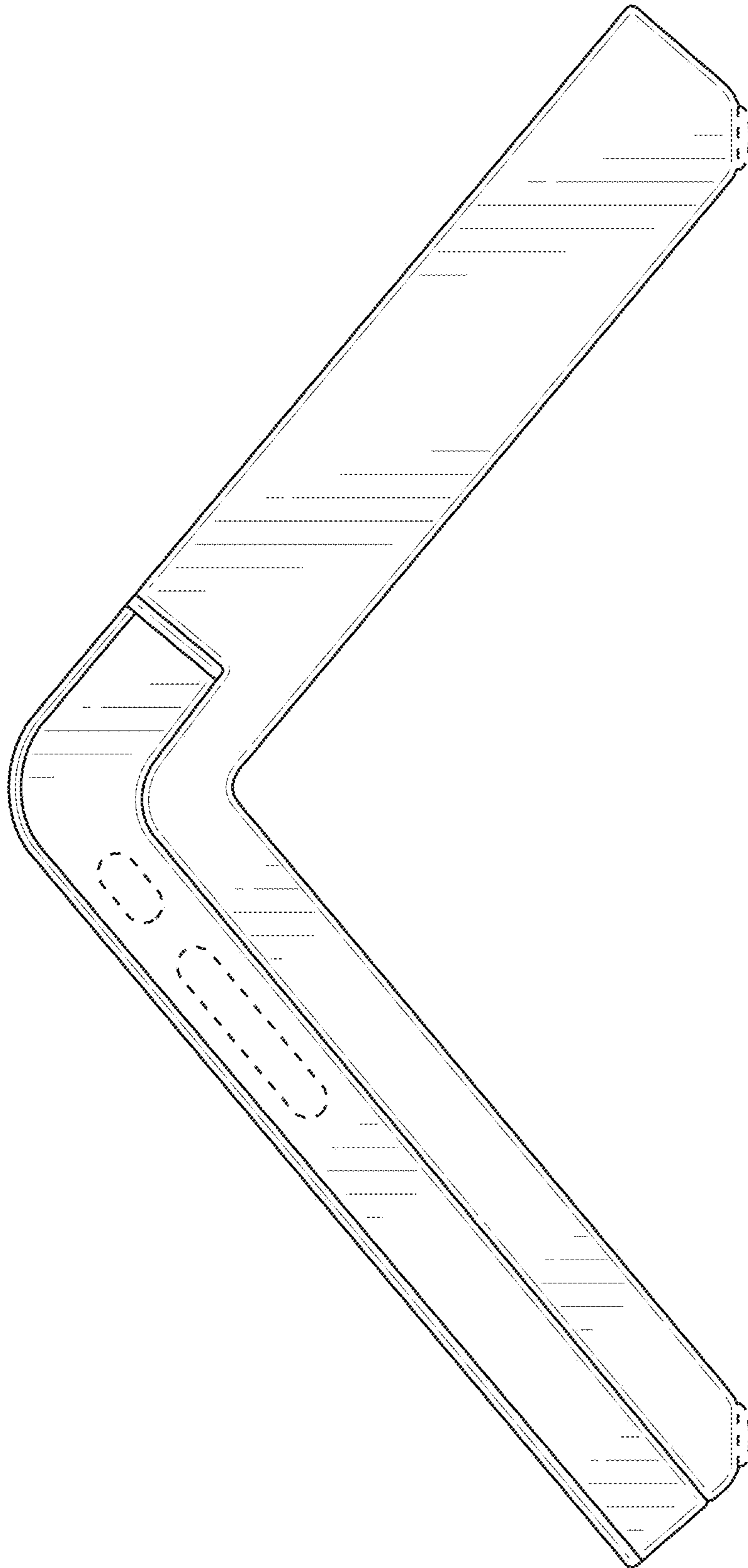
**FIG. 1**



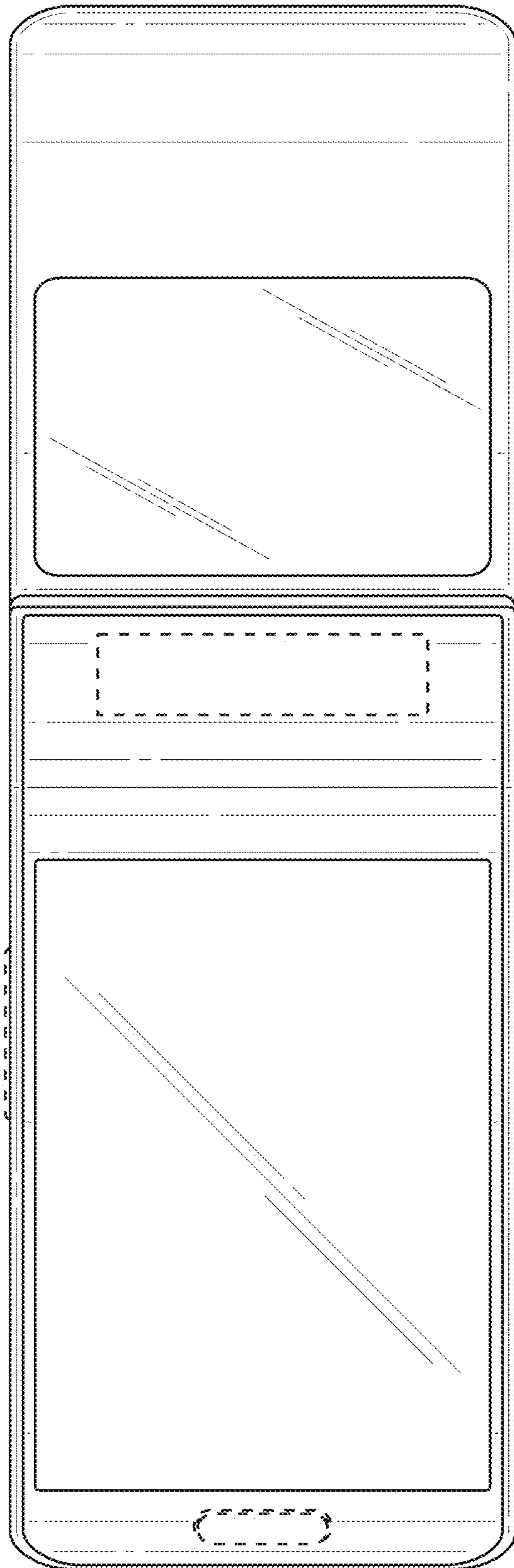
**FIG. 2**



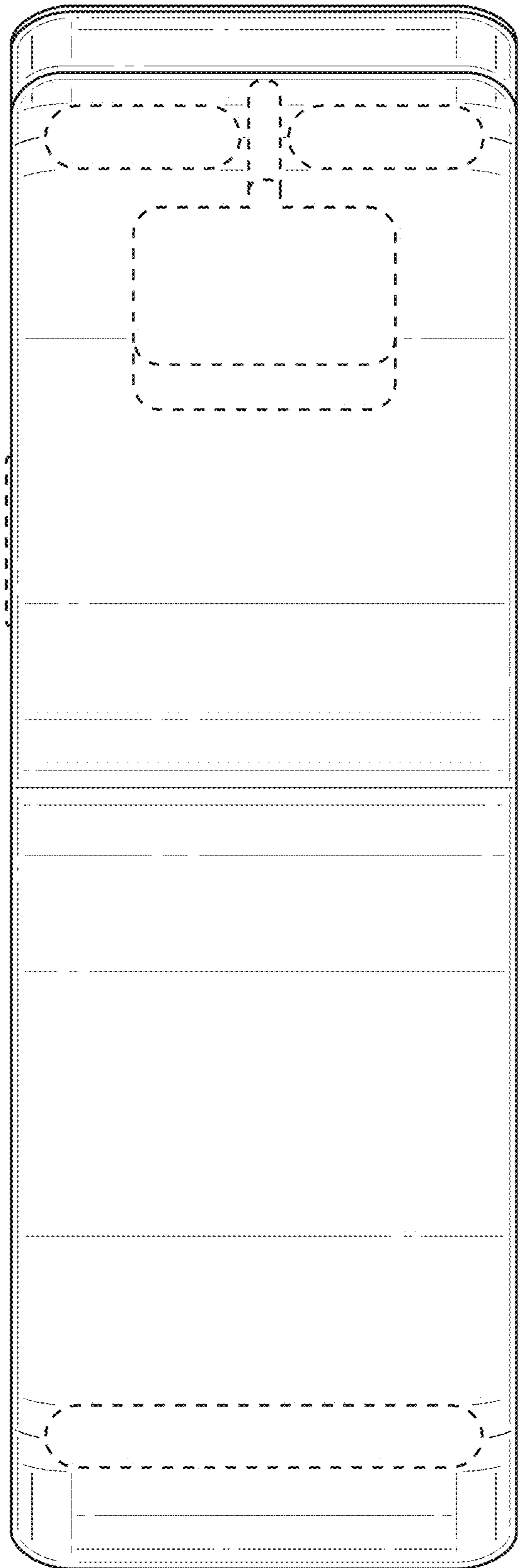
**FIG. 3**



**FIG. 4**

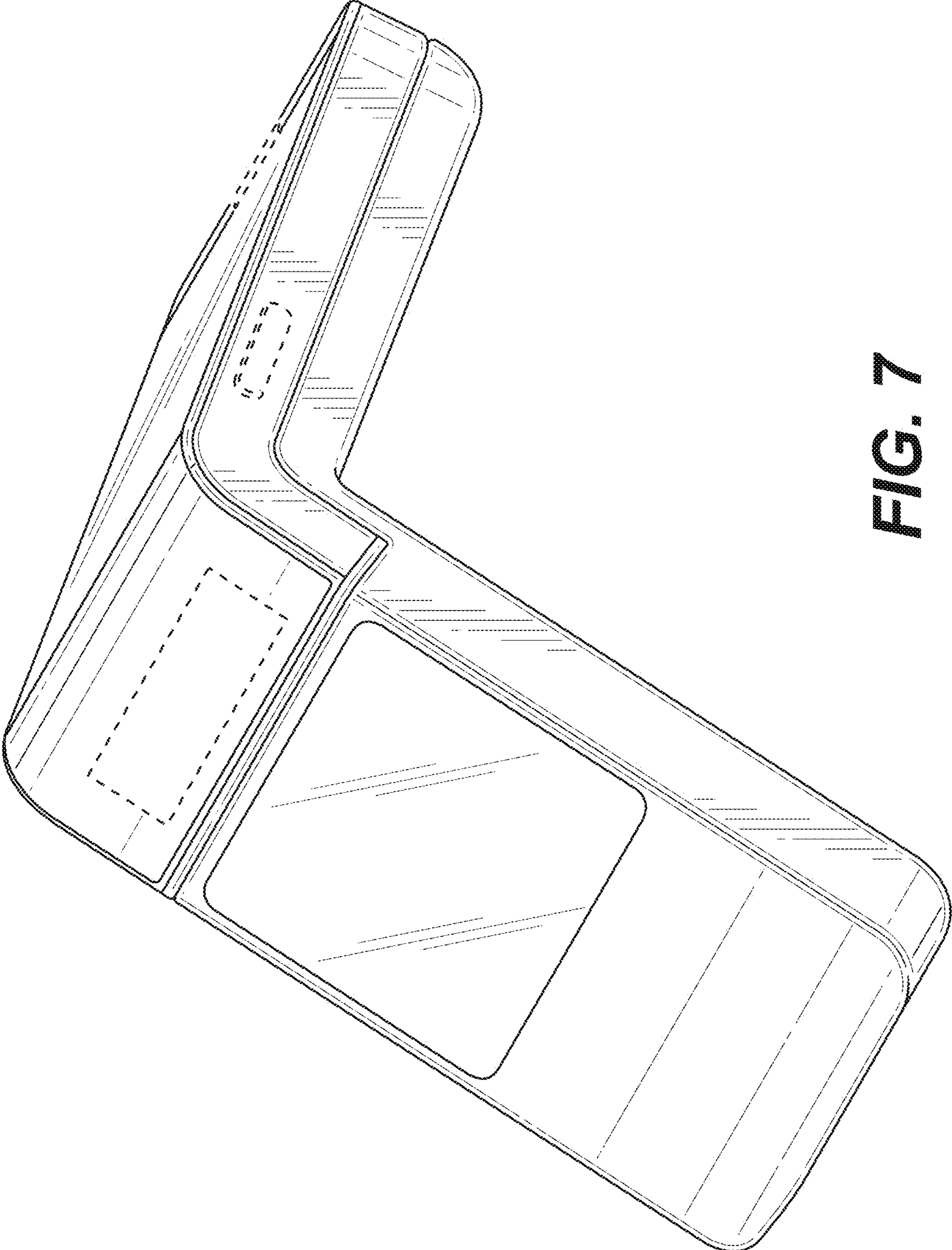


**FIG. 5**

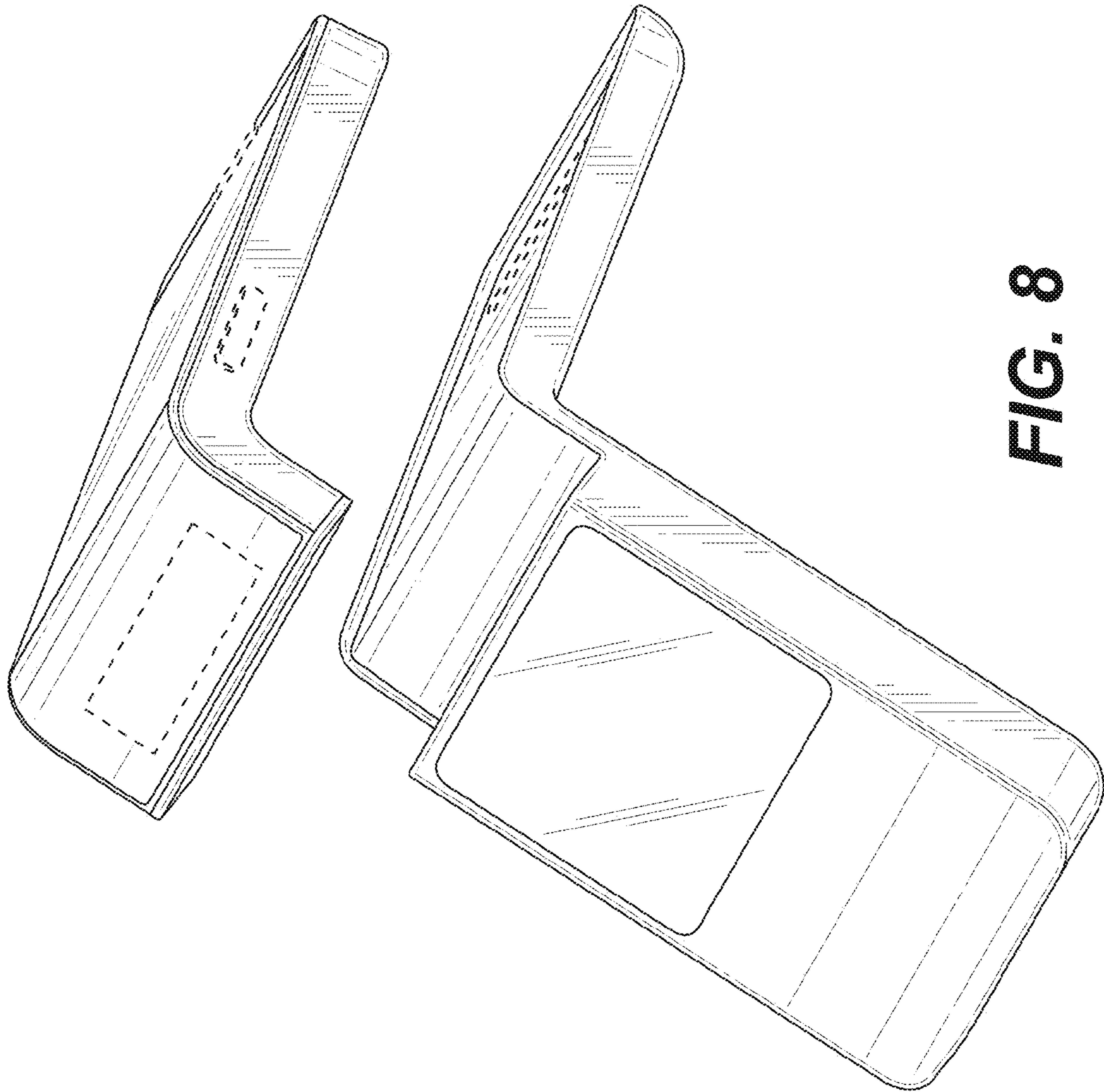


**FIG. 6**





**FIG. 7**



**FIG. 8**