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(12) **United States Design Patent** (10) **Patent No.:** **US D917,487 S**  
**Bidwell et al.** (45) **Date of Patent:** **\*\* Apr. 27, 2021**

(54) **OPTICAL SCANNER**

(71) Applicant: **Hand Held Products, Inc.**, Fort Mill, SC (US)

(72) Inventors: **Dean J. Bidwell**, Renton, WA (US); **David K. Memke**, Bainbridge Island, WA (US); **Michael James Wells**, Lake Forest Park, WA (US); **Tim Zurmoehle**, Seattle, WA (US); **William Herweh, III**, Seattle, WA (US); **Churu Yun**, Seattle, WA (US); **Mark Oberpriller**, Peachtree Corners, GA (US); **Matthew McElvogue**, Seattle, WA (US); **Rajat Shail**, Chicago, IL (US); **John S. Bandringa**, Everett, WA (US); **Roger Jackson**, Lake Forest Park, WA (US)

(73) Assignee: **HAND HELD PRODUCTS, INC.**, Fort Mill, SC (US)

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

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**Related U.S. Application Data**

(63) Continuation of application No. 29/663,671, filed on Sep. 18, 2018, now abandoned, and a continuation of (Continued)

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

(52) **U.S. Cl.**  
USPC ..... **D14/429; D14/428**

(58) **Field of Classification Search**  
USPC ..... D14/420, 426-430, 453, 346, 341, 347, D14/412, 138 R, 138 AA, 138 C;  
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,996,896 A \* 12/1999 Grabon ..... G06K 7/10881  
235/462.46

D449,995 S 11/2001 Christianson  
(Continued)

OTHER PUBLICATIONS

U.S. Appl. No. 29/663,671, filed Sep. 18, 2018.  
(Continued)

*Primary Examiner* — Susan Moon Lee

(74) *Attorney, Agent, or Firm* — Alston & Bird LLP

(57) **CLAIM**

The ornamental design for an optical scanner, as shown in the accompanying drawings and described above.

**DESCRIPTION**

FIG. 1 is a top front perspective view of the optical scanner in accordance with the present invention;

FIG. 2 is a top rear perspective view of the optical scanner of FIG. 1;

FIG. 3 is a front view of the optical scanner of FIG. 1;

FIG. 4 is a rear view of the optical scanner of FIG. 1;

FIG. 5 is a right side view of the optical scanner of FIG. 1;

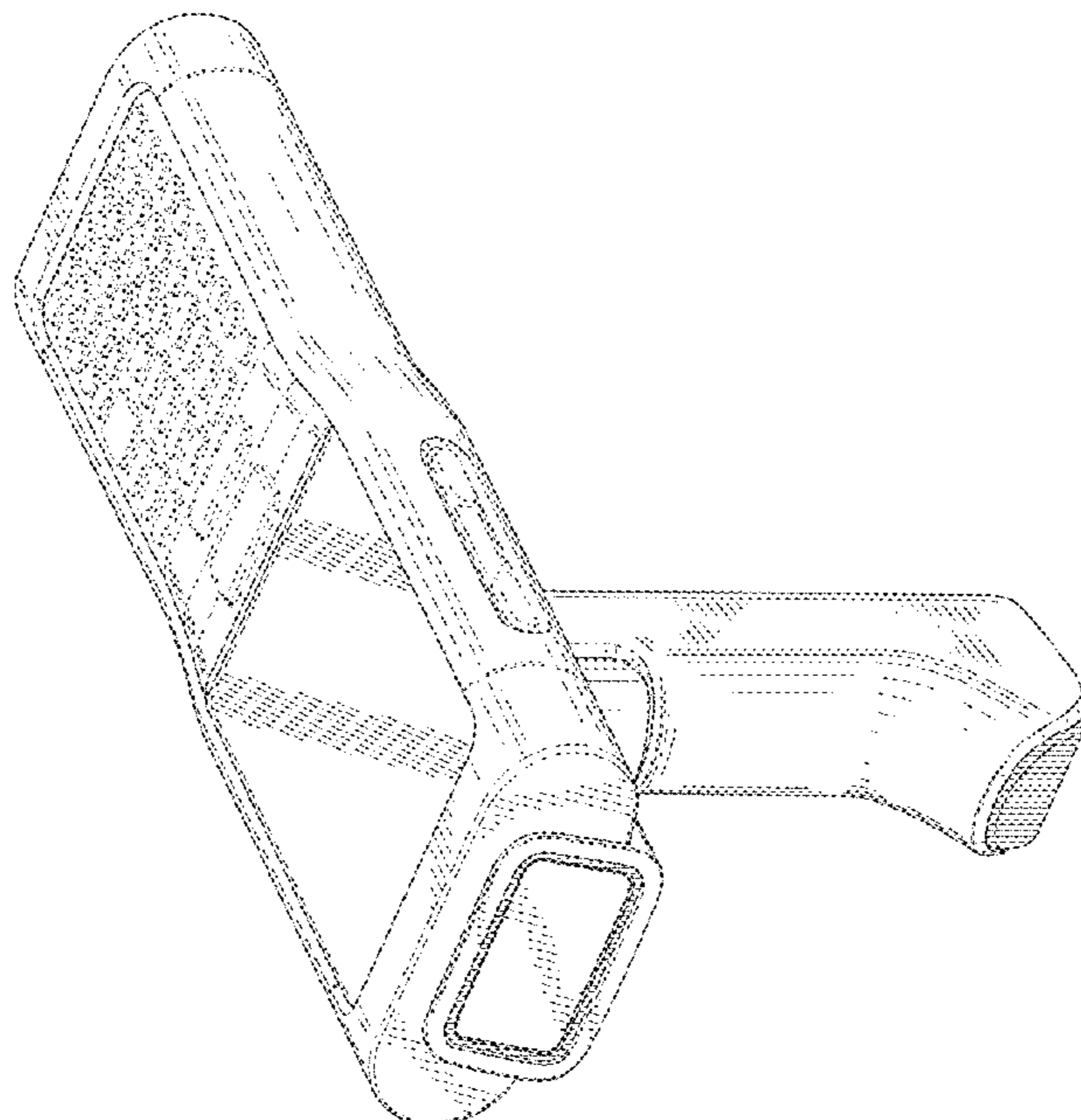
FIG. 6 is a left side view of the optical scanner of FIG. 1;

FIG. 7 is a top view of the optical scanner of FIG. 1; and,

FIG. 8 is a bottom view of the optical scanner of FIG. 1.

The broken lines depict unclaimed features of the optical scanner, shown for purposes of illustration, and forming no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



**Related U.S. Application Data**

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(58) **Field of Classification Search**

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G06F 9/4401; G06K 7/10881; G06K  
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G06K 7/1417; G06K 7/10386; G06K  
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G06K 2007/10534; G06K 2007/10544;  
G06K 19/0723; G06K 7/1095; G06K  
7/089; G06K 7/10821; G07G 1/0081;  
G07G 1/009; G06Q 20/20; G06Q 20/201;  
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20/4014; G06Q 10/087; H04N 1/00127;  
H04N 1/00135; H04N 1/00326; H04N  
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H04N 2201/0084; H04N 2101/00; H04M  
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H04M 1/18; H04M 1/23; H04M 1/236;  
H04B 1/3827; H04B 1/3833; H04B  
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H04B 2001/3894; H01M 2/1066; H01Q  
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9/285; H01Q 19/28; Y10T 29/49016

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D460,075 S \* 7/2002 Destefano ..... D14/426  
D494,593 S \* 8/2004 Wulff ..... D14/347  
D495,335 S 8/2004 Masamitsu et al.  
6,988,664 B1 1/2006 Lee et al.  
D520,997 S 5/2006 Lee et al.  
D535,993 S 1/2007 Ueda  
D539,294 S \* 3/2007 Croley ..... D14/453  
D558,775 S 1/2008 Morris et al.  
D566,712 S 4/2008 Ah

7,633,282 B2 12/2009 Radle et al.  
7,837,112 B2 11/2010 An  
D634,227 S 3/2011 Marzynski et al.  
7,903,033 B2 \* 3/2011 Bellows ..... H01Q 1/242  
343/702  
D638,422 S 5/2011 Reed et al.  
7,992,787 B2 \* 8/2011 Mangaroo ..... H05K 5/0247  
235/472.01  
8,025,236 B2 \* 9/2011 Mangaroo ..... G06K 7/10881  
235/472.01  
D661,209 S 6/2012 Janky et al.  
8,199,489 B2 \* 6/2012 Mangaroo ..... G06F 1/1626  
361/679.55  
D664,457 S 7/2012 Buchanan  
D676,850 S \* 2/2013 Minafo ..... D14/429  
D677,663 S \* 3/2013 Minafo ..... D14/429  
D692,431 S 10/2013 Arceta  
8,567,682 B2 \* 10/2013 Boyd ..... G06K 7/10  
235/472.01  
8,587,595 B2 \* 11/2013 Wang ..... G06K 7/1417  
345/505  
D697,067 S \* 1/2014 Minafo ..... D14/429  
D698,674 S 2/2014 Mattsson  
D704,711 S \* 5/2014 Minafo ..... D14/426  
D705,684 S 5/2014 Takahashi et al.  
D709,503 S 7/2014 Chen et al.  
8,763,909 B2 7/2014 Reed et al.  
D716,307 S \* 10/2014 Paufler ..... D14/426  
D719,040 S 12/2014 Crowe et al.  
D719,955 S \* 12/2014 Hsu ..... D14/428  
D724,976 S 3/2015 Crowe et al.  
D725,098 S 3/2015 Neumann  
D726,185 S 4/2015 Park et al.  
D732,534 S \* 6/2015 Paufler ..... D14/429  
D738,242 S 9/2015 Crowe et al.  
D740,144 S 10/2015 Lamer  
D753,119 S \* 4/2016 Paufler ..... D14/426  
D766,424 S 9/2016 Anderson et al.  
D771,244 S 11/2016 Takemoto et al.  
D771,631 S 11/2016 Fitch et al.  
D773,946 S 12/2016 Hoofnagle et al.  
D774,507 S \* 12/2016 Borgini ..... D14/347  
9,664,708 B2 5/2017 Dorman et al.  
D792,407 S \* 7/2017 Fitch ..... D14/426  
D793,257 S 8/2017 Gao et al.  
D805,932 S 12/2017 Koeniger et al.  
D808,391 S 1/2018 Schooneveldt et al.  
D815,066 S 4/2018 Bidwell et al.  
D820,812 S 6/2018 Bidwell et al.  
D829,212 S 9/2018 Bidwell et al.  
D832,845 S 11/2018 Memke et al.  
D835,107 S \* 12/2018 Memke ..... D14/426  
D837,215 S 1/2019 Memke et al.  
D838,273 S 1/2019 Memke et al.  
D859,411 S 9/2019 Bidwell et al.  
D865,049 S 10/2019 Bidwell et al.  
D868,066 S \* 11/2019 Yang ..... D14/426  
D870,734 S \* 12/2019 Memke ..... D14/426  
D895,622 S \* 9/2020 Sieckowski ..... D14/428  
D896,224 S \* 9/2020 Sieckowski ..... D14/428  
2003/0006998 A1 \* 1/2003 Kumar ..... G06F 3/0202  
715/700  
2005/0001037 A1 \* 1/2005 Wulff ..... G06F 1/1656  
235/462.43  
2005/0150959 A1 \* 7/2005 Izzo ..... G06K 7/10881  
235/472.02  
2005/0194446 A1 9/2005 Wiklof et al.  
2006/0054704 A1 \* 3/2006 Fitch ..... G06F 1/1684  
235/472.01  
2006/0266841 A1 \* 11/2006 Hansen ..... G06F 1/1684  
235/472.02  
2007/0158429 A1 \* 7/2007 Bhatia ..... G06K 7/1098  
235/462.45  
2008/0002024 A1 1/2008 Schweers  
2008/0042657 A1 2/2008 Radle et al.  
2008/0123262 A1 \* 5/2008 Coleman ..... G06F 1/1635  
361/679.08



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2008/0128499 A1\* 6/2008 Chen ..... G06K 7/10851  
235/444  
2008/0203167 A1\* 8/2008 Soule ..... G06F 16/13  
235/462.01  
2008/0297479 A1\* 12/2008 Yeh ..... G06F 1/1626  
345/169  
2009/0168337 A1\* 7/2009 Conti ..... G06F 1/1656  
361/679.56  
2009/0224039 A1\* 9/2009 Hause ..... G06K 7/0004  
235/385  
2009/0270136 A1\* 10/2009 Su ..... H04M 1/0262  
455/572  
2009/0276115 A1 11/2009 Chen  
2012/0120612 A1\* 5/2012 Tran ..... G02B 6/4463  
361/730  
2013/0256405 A1\* 10/2013 Montout ..... G06K 7/10881  
235/375  
2014/0185234 A1\* 7/2014 Lee ..... H04M 1/236  
361/679.56

2014/0217180 A1\* 8/2014 Liu ..... E05B 73/0005  
235/472.01  
2014/0249942 A1\* 9/2014 Hicks ..... G06Q 20/20  
705/17

OTHER PUBLICATIONS

U.S. Appl. No. 29/572,907, filed Aug. 1, 2016.  
Notice of Allowance and Fees Due (PTOL-85) dated May 25, 2018  
for U.S. Appl. No. 29/572,907.  
Notice of Allowance and Fees Due (PTOL-85) dated Oct. 16, 2019  
for U.S. Appl. No. 29/663,671.  
Notice of Allowance and Fees Due (PTOL-85) dated Sep. 9, 2020  
for U.S. Appl. No. 29/663,671.  
Notice of Allowance and Fees Due (PTOL-85) dated Sep. 18, 2020  
for U.S. Appl. No. 29/663,671.  
Notice of Allowance for U.S. Appl. No. 29/572,907, dated May 25,  
2018, 9 pages.

\* cited by examiner

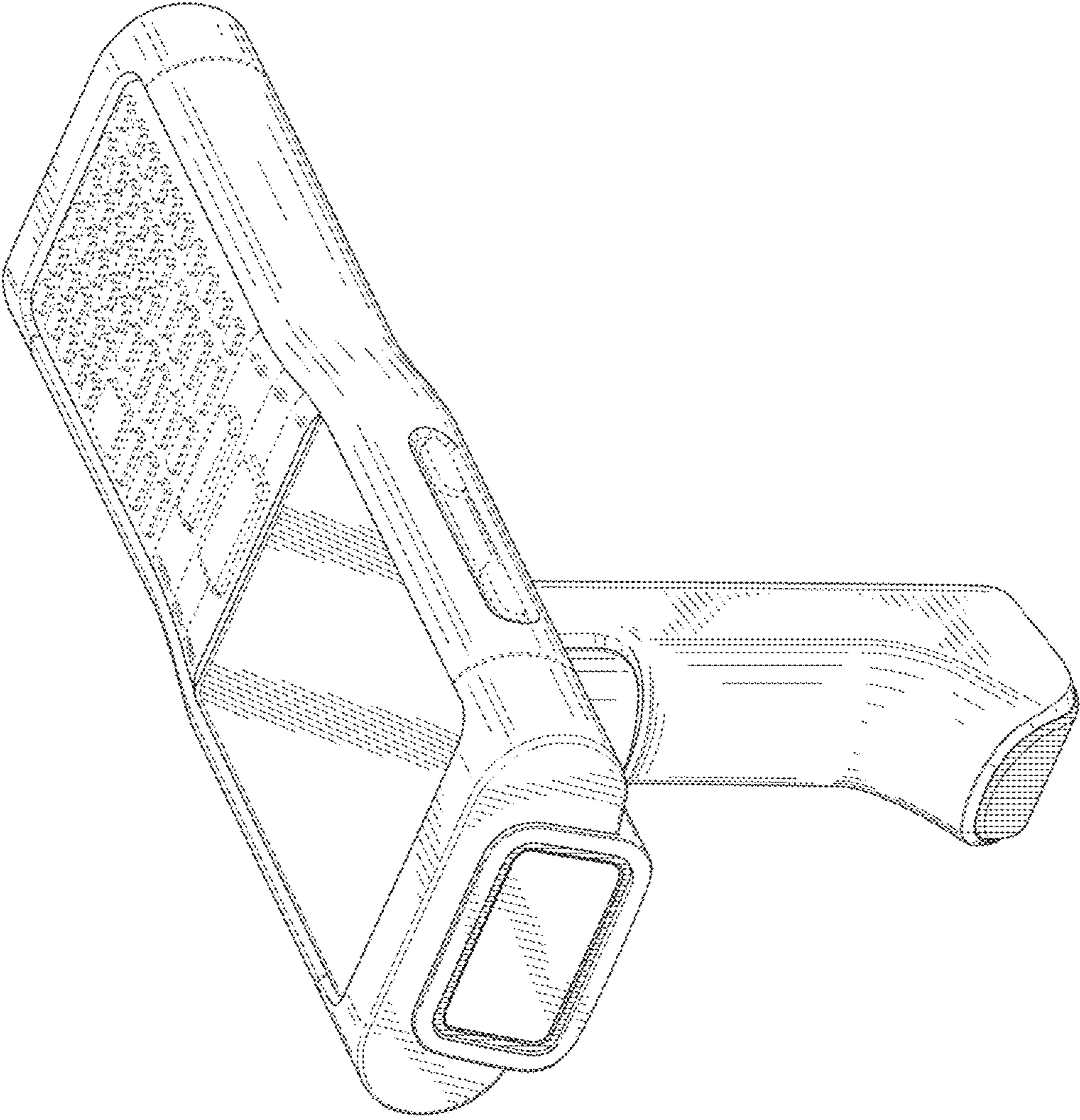


FIG. 1

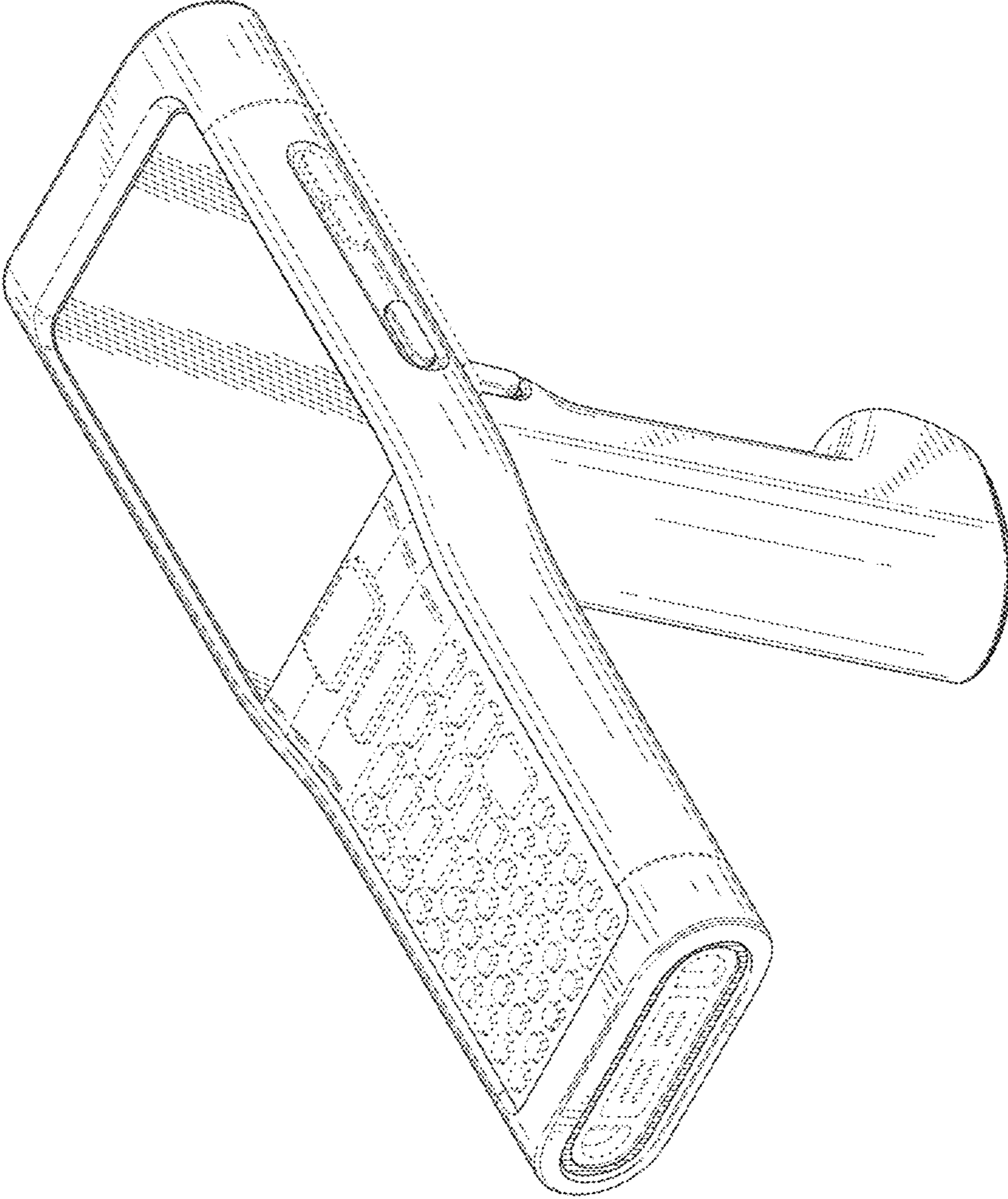


FIG. 2

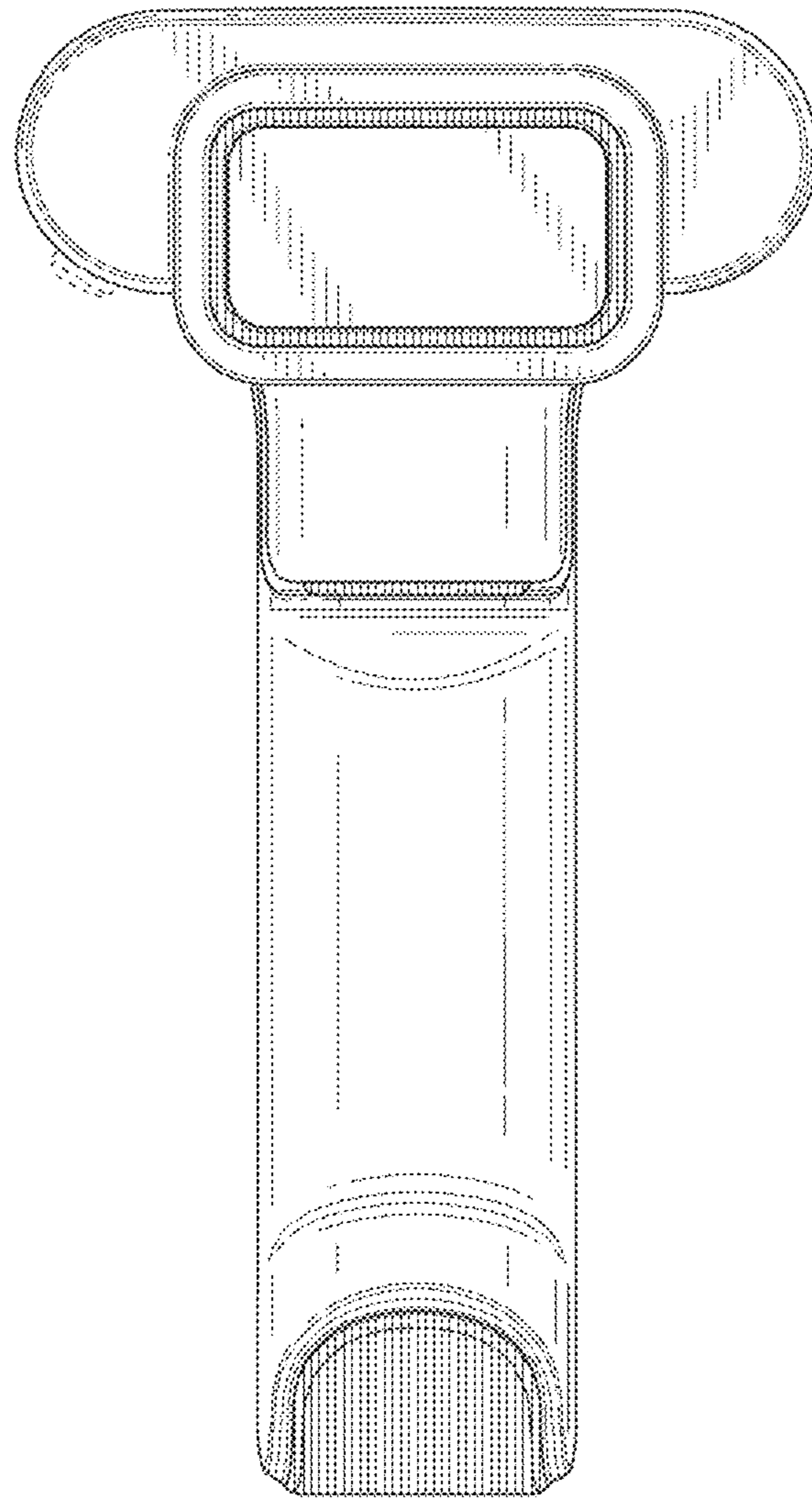


FIG. 3

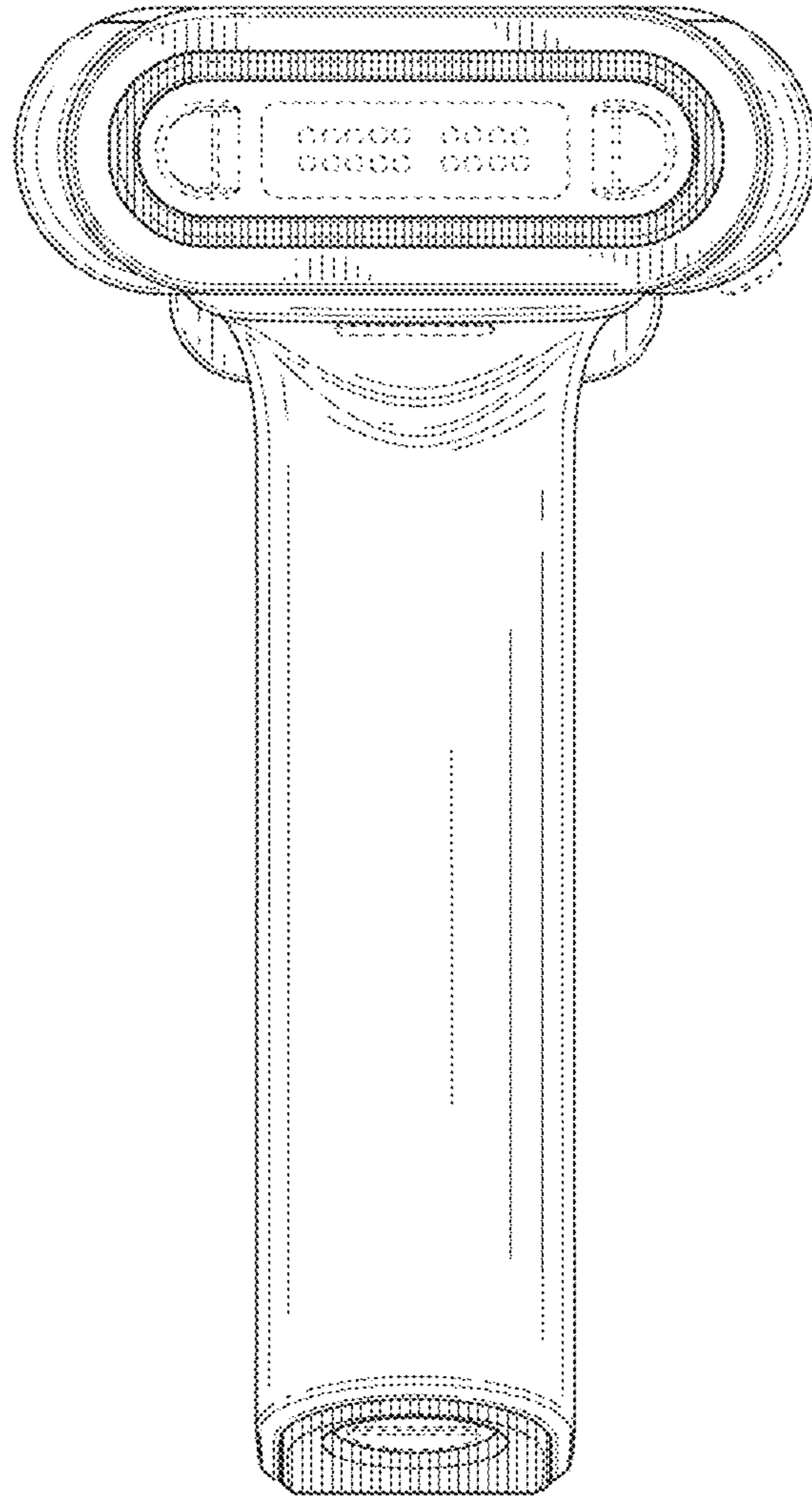


FIG. 4



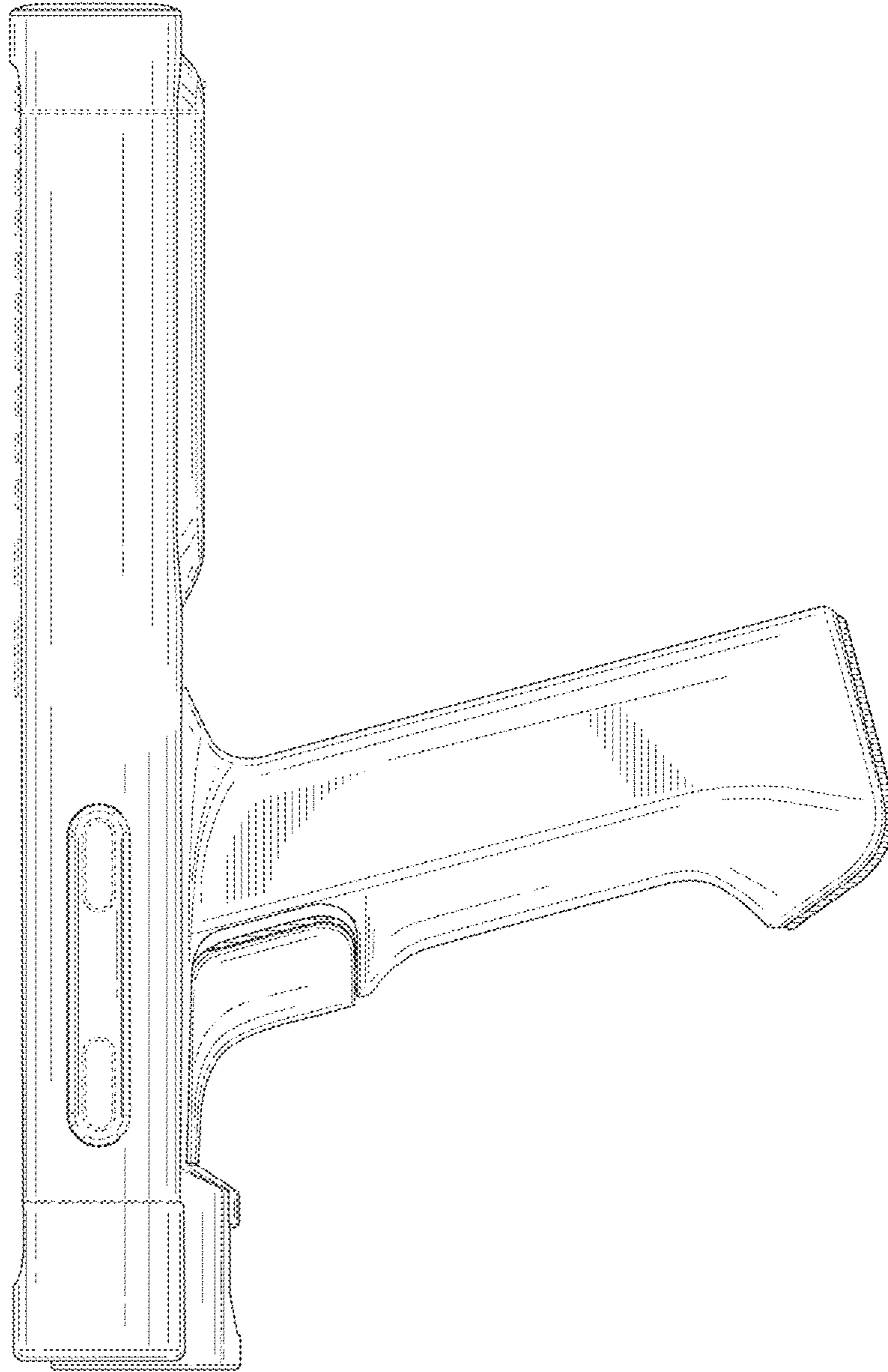


FIG. 5



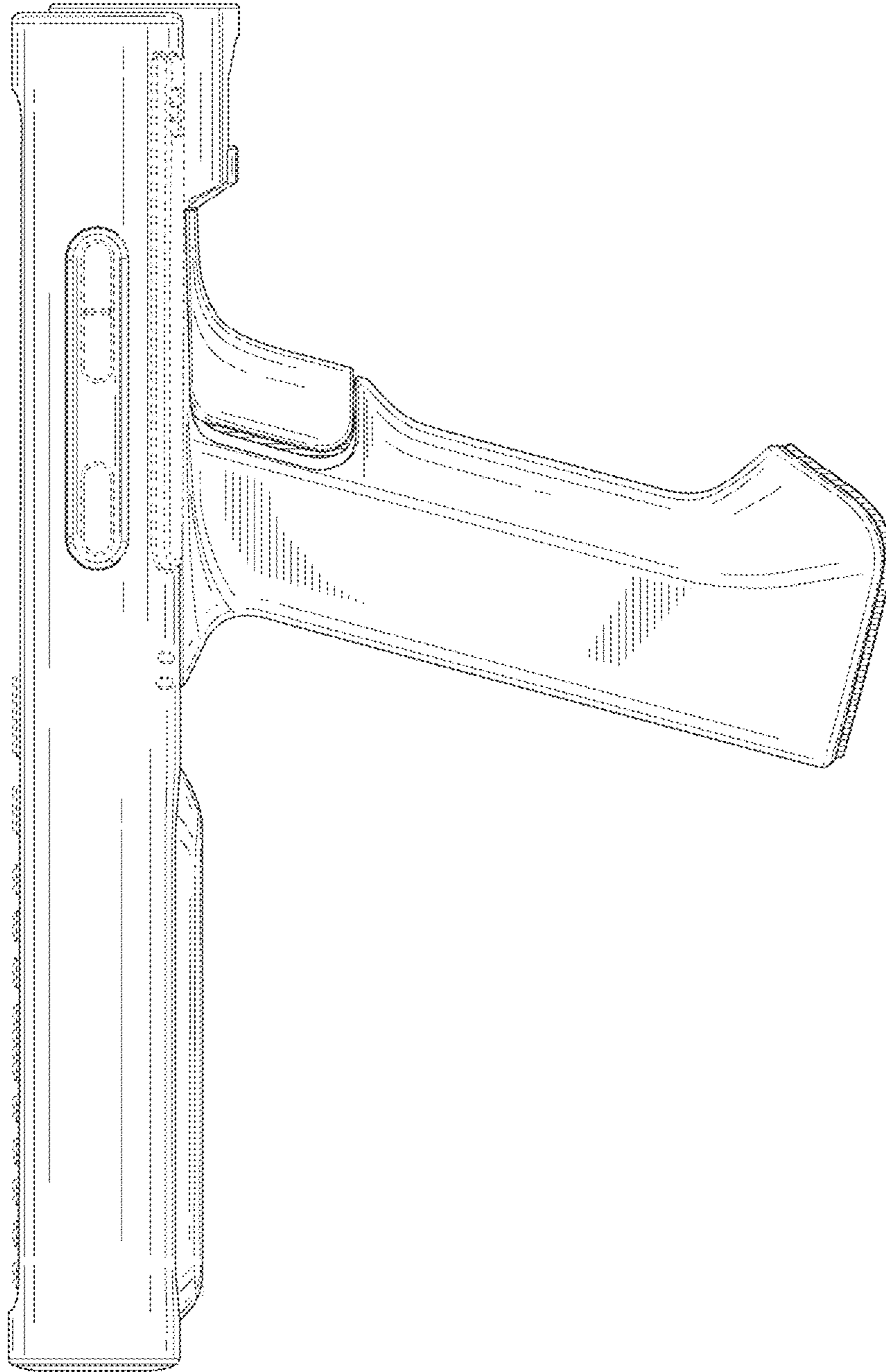


FIG. 6

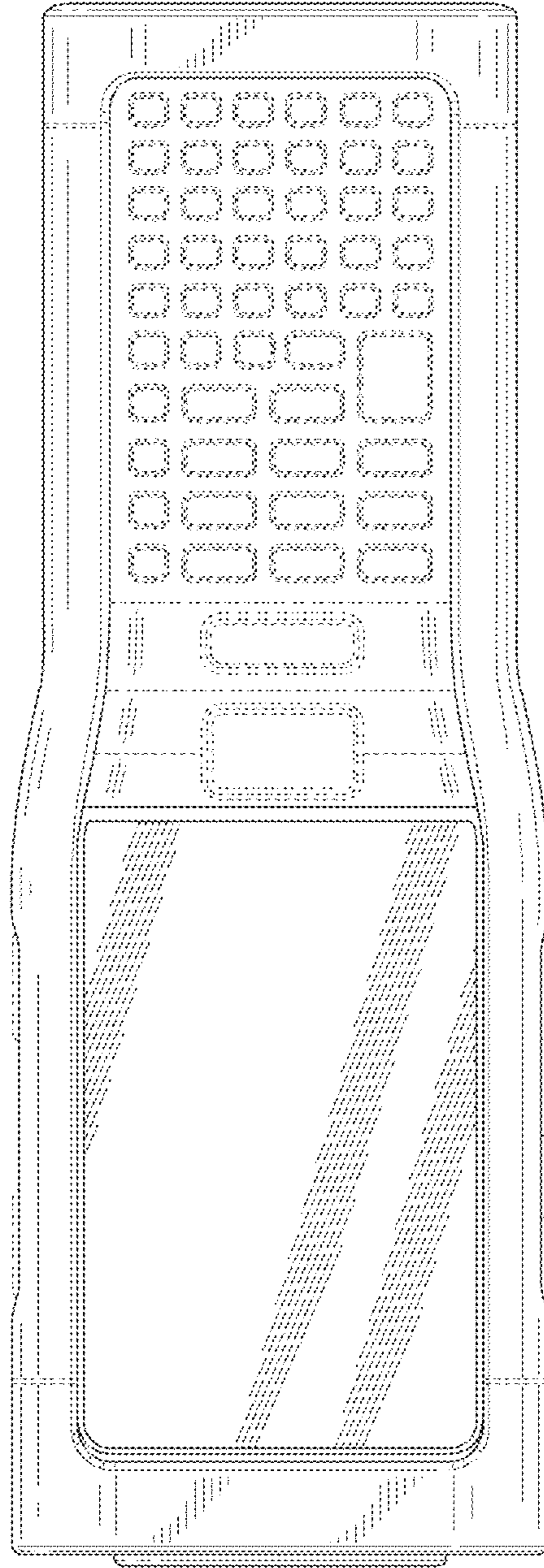


FIG. 7

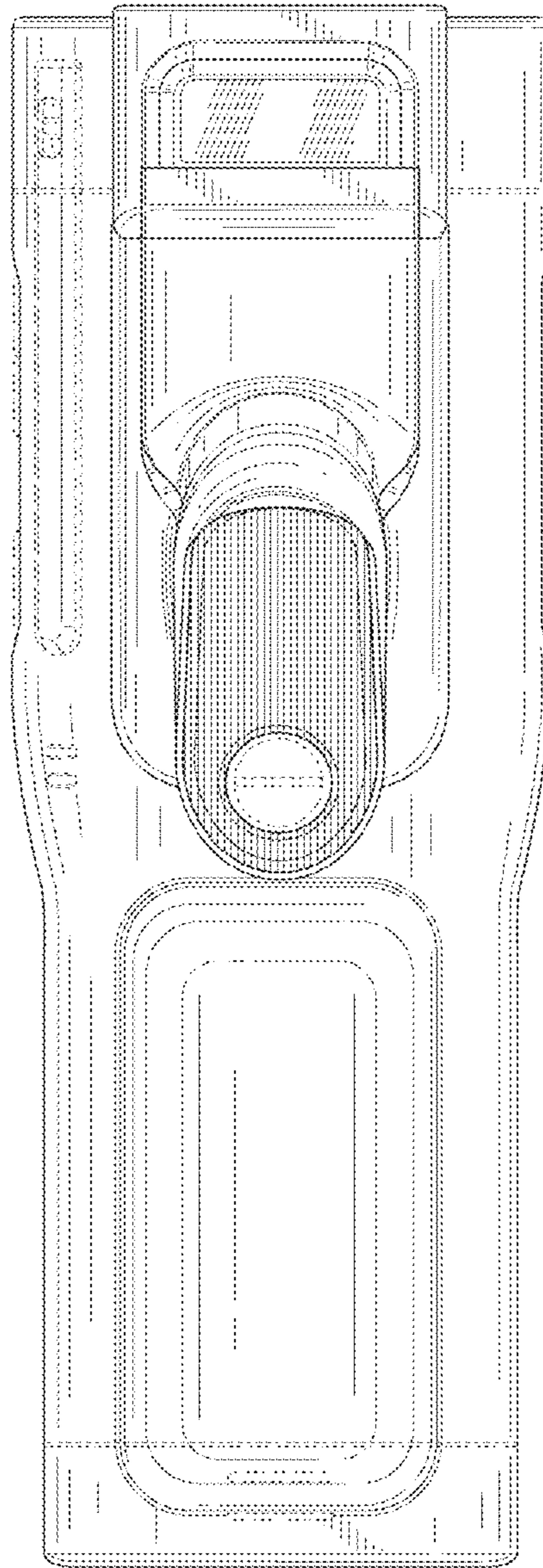


FIG. 8