



US00D732534S

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

(10) **Patent No.:** **US D732,534 S**

(45) **Date of Patent:** **\*\* Jun. 23, 2015**

(54) **PORTABLE TERMINAL**

(71) Applicant: **Datalogic IP Tech S.r.L.**, Lippo di Calderara di Reno (BO) (IT)

(72) Inventors: **David Paufler**, Bologna (IT); **Bin Li**, Shenzhen (CN)

(73) Assignee: **DATALOGIC IP TECH S.R.L.**, Lippo di Calderara di Reno (BO)

(\*\*) Term: **14 Years**

(21) Appl. No.: **29/502,532**

(22) Filed: **Sep. 17, 2014**

**Related U.S. Application Data**

(62) Division of application No. 29/472,543, filed on Nov. 13, 2013, now Pat. No. Des. 716,307.

**Foreign Application Priority Data**

May 16, 2013 (EM) ..... 002238741  
Oct. 24, 2013 (EM) ..... 002332858

(51) **LOC (10) 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; 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; 324/426; D3/273; 710/73; D18/7; 361/679, 728, 361/679.56; 382/313, 321; 455/575.1, 561, 455/572; 345/156, 168, 169, 172, 173, 87; 705/17, 18, 22-25

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;

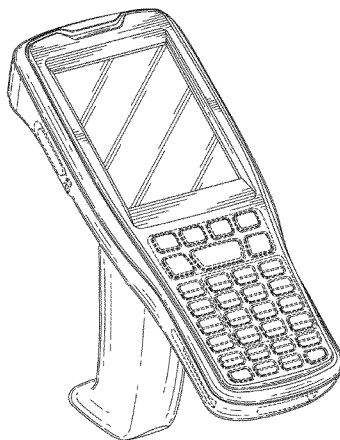
G06K 7/1093; G06K 7/10; G06K 7/109; G06K 7/1417; G06K 9/228; G06K 17/0022; G06K 17/00; G06K 2207/1011; G06K 2207/1013; G06K 2207/1016; G06K 2207/1018; G06K 2017/0051; G06K 2017/0067; G06K 2007/10524; G07G 1/0081; G07G 1/009; G06Q 20/20; G06Q 20/201; G06Q 20/202; G06Q 20/203; G06Q 20/30; G06Q 20/322; 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; 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

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,621,189 A	11/1986	Kumar et al.	
D342,256 S	12/1993	Payne et al.	
D344,501 S	2/1994	Gong et al.	
5,349,497 A *	9/1994	Hanson et al.	361/679.58
D355,904 S	2/1995	Swartz et al.	
D357,240 S	4/1995	Kitazumi et al.	
5,410,141 A	4/1995	Koenck et al.	
D362,435 S	9/1995	Charych et al.	
D363,470 S	10/1995	Yamamoto	
5,471,042 A	11/1995	Kirkeby et al.	
D367,648 S	3/1996	Smith et al.	
5,565,671 A	10/1996	Kirkeby et al.	
D376,989 S	12/1996	McCain	
5,598,082 A *	1/1997	Gilpin et al.	200/293.1
D381,975 S	8/1997	Trausch et al.	
D383,124 S	9/1997	Lanzaro et al.	
5,680,633 A	10/1997	Koenck et al.	
D386,152 S	11/1997	Warneke	
D390,554 S	2/1998	Larson et al.	
D391,234 S	2/1998	Chacon et al.	
5,736,726 A	4/1998	VanHorn et al.	
D396,714 S	8/1998	Nuovo et al.	
D398,002 S	9/1998	Chacon et al.	
D398,903 S	9/1998	Chacon et al.	
5,801,918 A	9/1998	Ahearn et al.	
D400,199 S	10/1998	Fitch et al.	



# US D732,534 S

5,818,027 A	10/1998	Paratore	7,416,129 B2	8/2008	Bhatia et al.
5,831,819 A	11/1998	Chacon et al.	7,435,508 B2	10/2008	Lee et al.
D406,585 S	3/1999	Vuolteenaho et al.	7,446,753 B2	11/2008	Fitch et al.
D414,171 S	9/1999	Swift et al.	7,562,824 B2	7/2009	Bhatia et al.
D414,172 S	9/1999	Hetfield et al.	7,571,857 B2 *	8/2009	Payne et al. .... 235/462.13
D414,470 S	9/1999	Chacon et al.	D599,798 S	9/2009	Fitch et al.
D414,760 S	10/1999	Hefield et al.	D604,303 S	11/2009	Boyd
5,969,328 A	10/1999	Kunert	7,651,029 B1 *	1/2010	Mangaroo et al. .... 235/462.45
D417,445 S	12/1999	Chacon et al.	D611,943 S	3/2010	Boyd
5,996,896 A *	12/1999	Grabon ..... 235/472.02	D612,854 S	3/2010	Arnold et al.
D418,500 S	1/2000	Giordano et al.	7,673,804 B1 *	3/2010	Hinson et al. .... 235/472.01
D420,680 S	2/2000	Curtis	D613,289 S	4/2010	Alegiani et al.
D421,004 S	2/2000	Curtis	D613,290 S	4/2010	Arnold et al.
6,031,524 A	2/2000	Kunert	D614,626 S	4/2010	Dai et al.
D425,057 S	5/2000	Finkbeiner	D614,627 S	4/2010	Lerner et al.
6,065,679 A	5/2000	Levie et al.	7,743,995 B2	6/2010	Wulff
D427,090 S	6/2000	Washburn et al.	D619,138 S	7/2010	Ingold et al.
D428,883 S	8/2000	Mizusugi et al.	7,748,632 B2	7/2010	Coleman et al.
D429,226 S	8/2000	Siddoway et al.	D622,726 S	8/2010	Alegiani et al.
D430,159 S	8/2000	Bhatia et al.	7,787,239 B2	8/2010	Mangaroo et al.
6,109,528 A	8/2000	Kunert et al.	D629,001 S	12/2010	Palmer et al.
D431,562 S	10/2000	Bhatia et al.	7,857,226 B2 *	12/2010	Mangaroo et al. .... 235/472.01
D433,017 S	10/2000	Martinez	7,876,227 B2	1/2011	Bellows
D436,104 S	1/2001	Bhatia et al.	D631,909 S	2/2011	Blanc et al.
6,181,992 B1	1/2001	Gurne et al.	D633,095 S *	2/2011	Cullen et al. .... D14/453
D439,898 S	4/2001	Ober et al.	7,877,841 B2	2/2011	Mangaroo et al.
D446,524 S	8/2001	Bontly et al.	D633,502 S	3/2011	Alegiani
D456,806 S	5/2002	Ahearn et al.	D633,915 S	3/2011	Alegiani et al.
D462,357 S	9/2002	Jenkins	D634,744 S	3/2011	Palmer et al.
D463,425 S	9/2002	Jenkins	7,903,033 B2	3/2011	Bellows
D464,645 S	10/2002	O'Neil	D638,422 S	5/2011	Reed et al.
6,470,637 B2	10/2002	Gratz	7,992,787 B2	8/2011	Mangaroo et al.
6,478,226 B2	11/2002	Canini et al.	8,025,236 B2	9/2011	Mangaroo et al.
D467,918 S	12/2002	Fitch et al.	8,048,552 B1	11/2011	Mao
D470,145 S	2/2003	Schlieffers et al.	8,071,878 B2	12/2011	Mangaroo et al.
6,517,003 B2	2/2003	Vassura et al.	8,079,525 B1	12/2011	Zolotov
D473,872 S	4/2003	Ausems et al.	8,088,507 B2	1/2012	Su et al.
D476,300 S	6/2003	Pottie et al.	8,141,784 B2 *	3/2012	Wang et al. .... 235/462.25
D476,330 S	6/2003	Ahearn et al.	D657,398 S	4/2012	Calderwood et al.
6,633,483 B2	10/2003	Akagi et al.	D658,174 S	4/2012	Tasselli et al.
D486,460 S	2/2004	Bey et al.	D659,033 S *	5/2012	Bailey et al. .... D10/63
6,714,969 B1	3/2004	Klein et al.	8,169,786 B2	5/2012	Mangaroo
D492,681 S	7/2004	Ahearn et al.	D661,306 S	6/2012	Cullen et al.
D493,457 S	7/2004	Hsu	D662,099 S	6/2012	Cullen et al.
D494,593 S	8/2004	Wulff et al.	8,199,489 B2	6/2012	Mangaroo et al.
D496,366 S	9/2004	Croley et al.	D664,145 S	7/2012	Cullen et al.
D497,160 S	10/2004	Nagao et al.	8,313,030 B2	11/2012	Zolotov
6,822,853 B2	11/2004	Wulff et al.	D672,386 S	12/2012	Matunuma et al.
6,832,729 B1	12/2004	Perry et al.	D673,955 S	1/2013	Mangaroo et al.
D502,162 S	2/2005	Kim et al.	D676,080 S	2/2013	Van Den Broecke et al.
D505,422 S	5/2005	Kakizaki et al.	D676,850 S	2/2013	Minafo et al.
D505,423 S	5/2005	Ahearn et al.	8,371,505 B1 *	2/2013	Zolotov ..... 235/462.24
6,920,343 B2	7/2005	Uemura et al.	D677,663 S	3/2013	Minafo et al.
D509,829 S *	9/2005	MacGregor ..... D14/453	8,404,374 B2	3/2013	Chang et al.
D512,427 S	12/2005	Choi et al.	8,500,023 B2	8/2013	Zolotov
6,999,797 B2 *	2/2006	Crawford et al. .... 455/564	8,567,682 B2	10/2013	Boyd
D518,043 S	3/2006	Barness et al.	8,584,953 B2	11/2013	Zolotov
7,028,905 B2 *	4/2006	Sato et al. .... 235/462.45	8,586,225 B1	11/2013	Bausch et al.
7,050,009 B2	5/2006	Chirila	8,587,595 B2 *	11/2013	Wang ..... 345/505
D528,451 S	9/2006	Cunningham et al.	D697,067 S	1/2014	Minafo et al.
D529,943 S	10/2006	Chiu et al.	8,636,224 B2 *	1/2014	Wang ..... 235/494
7,147,162 B2	12/2006	Fitch et al.	D704,711 S	5/2014	Minafo et al.
D538,291 S	3/2007	Croley et al.	D706,337 S	6/2014	Blacken et al.
D538,292 S	3/2007	Croley et al.	D716,307 S *	10/2014	Pauffer et al. .... D14/426
D539,294 S	3/2007	Croley et al.	2002/0023961 A1	2/2002	Itou et al.
7,195,168 B2	3/2007	Wulff	2002/0193082 A1	12/2002	Uemura et al.
7,195,169 B2	3/2007	Bhatia et al.	2003/0006998 A1	1/2003	Kumar
D540,333 S *	4/2007	Croley et al. .... D14/453	2003/0060953 A1	3/2003	Chen
D557,696 S	12/2007	Conti et al.	2003/0089775 A1	5/2003	Yeakley et al.
7,307,645 B2	12/2007	Forsythe	2003/0121981 A1	7/2003	Slutsky et al.
D558,776 S	1/2008	Croley et al.	2004/0089570 A1	5/2004	Chien
D560,223 S	1/2008	Morris et al.	2004/0089722 A1 *	5/2004	Durbin ..... 235/472.01
D565,055 S	3/2008	Hanks	2005/0001037 A1	1/2005	Wulff
7,344,323 B2	3/2008	Fries et al.	2005/0017078 A1	1/2005	Bhatia et al.
D570,843 S	6/2008	Mazzone et al.	2005/0023358 A1	2/2005	Byun et al.
D571,808 S	6/2008	Dorr et al.	2005/0068201 A1	3/2005	Wulff et al.
7,401,162 B2	7/2008	Baker et al.	2005/0150959 A1	7/2005	Izzo et al.
D574,830 S	8/2008	Tasselli et al.	2006/0054704 A1	3/2006	Fitch et al.
D575,287 S	8/2008	Miyashita	2006/0266841 A1 *	11/2006	Hansen et al. .... 235/472.02

2006/0267730	A1 *	11/2006	Steinke et al. ....	340/10.1
2006/0278715	A1 *	12/2006	Hamilton et al. ....	235/472.01
2007/0045424	A1 *	3/2007	Wang .....	235/462.46
2007/0108291	A1	5/2007	Bhatia et al.	
2007/0158428	A1	7/2007	Havens et al.	
2007/0158429	A1	7/2007	Bhatia et al.	
2007/0210169	A1 *	9/2007	Bhatia et al. ....	235/462.13
2008/0006699	A1	1/2008	Hattersley et al.	
2008/0123262	A1	5/2008	Coleman et al.	
2008/0128499	A1 *	6/2008	Chen et al. ....	235/444
2008/0203167	A1 *	8/2008	Soule et al. ....	235/462.01
2008/0268329	A1	10/2008	Mackle et al.	
2008/0297479	A1	12/2008	Yeh	
2009/0093229	A1	4/2009	Grunow et al.	
2009/0168337	A1	7/2009	Conti et al.	
2009/0224039	A1	9/2009	Hause et al.	
2009/0270136	A1	10/2009	Su et al.	
2009/0295567	A1	12/2009	Bellows	
2011/0264882	A1 *	10/2011	Scott et al. ....	711/163
2011/0290876	A1 *	12/2011	Graves et al. ....	235/385
2012/0118969	A1	5/2012	Zolotov	
2012/0120612	A1 *	5/2012	Tran .....	361/730
2012/0312877	A1	12/2012	Zolotov	
2013/0341399	A1 *	12/2013	Xian et al. ....	235/449
2014/0185234	A1 *	7/2014	Lee et al. ....	361/679.56
2014/0217180	A1 *	8/2014	Liu .....	235/472.01
2014/0249942	A1 *	9/2014	Hicks et al. ....	705/17

FOREIGN PATENT DOCUMENTS

DE	20016762	U1	1/2001
EM	000469143	A1	3/2006
EM	001582024	A1	7/2009
EP	1128314	A1	8/2001

OTHER PUBLICATIONS

Photographs of Datalogic Falcon® [Model 4410] Scanner from Datalogic Mobile’s web site, product first released circa 2005, 6 pages.

Photographs of Datalogic Kyman Scanner from Datalogic Mobile’s web site, product first released circa 2007, 6 pages.  
 Datalogic Skorpio™ and Skorpio-GUM™—User’s Manual, Dec. 2009, 117 pages.  
 Honeywell Dolphin 6100 Mobile Computer brochure with features and technical specifications, 2009, 2 pages.

\* cited by examiner

Primary Examiner — Susan Moon Lee  
 (74) Attorney, Agent, or Firm — Duane Morris LLP

(57)

**CLAIM**

We claim the ornamental design for a portable terminal, as shown and described:

**DESCRIPTION**

FIG. 1 is a perspective front view of a portable terminal according to the present invention.  
 FIG. 2 is a front view of the portable terminal of FIG. 1.  
 FIG. 3 is a rear view of the portable terminal of FIG. 1.  
 FIG. 4 is a left side view of the portable terminal of FIG. 1.  
 FIG. 5 is a right side view of the portable terminal of FIG. 1.  
 FIG. 6 is a top view of the portable terminal of FIG. 1; and,  
 FIG. 7 is a bottom view of the portable terminal of FIG. 1.  
 Broken lines and unshaded portions contained within broken lines are not claimed.

**1 Claim, 7 Drawing Sheets**

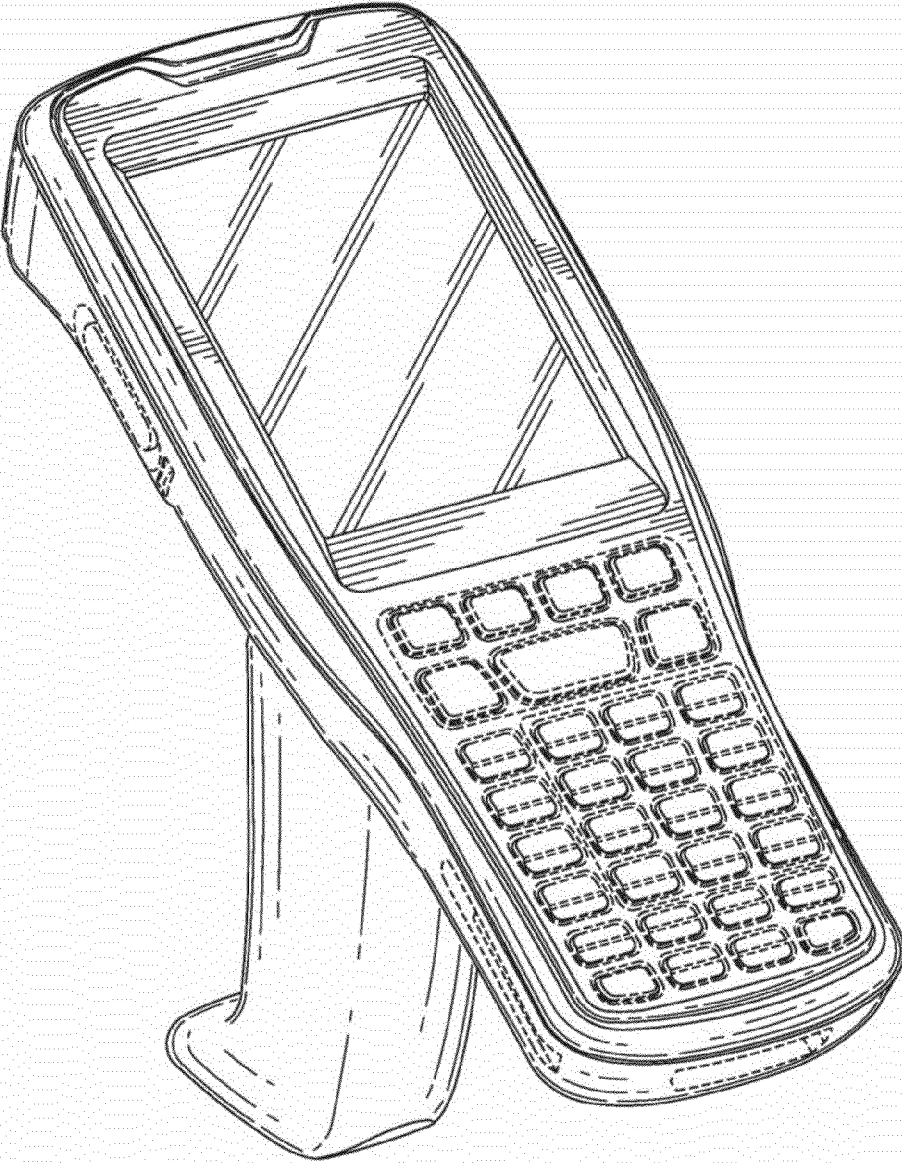


FIG. 1

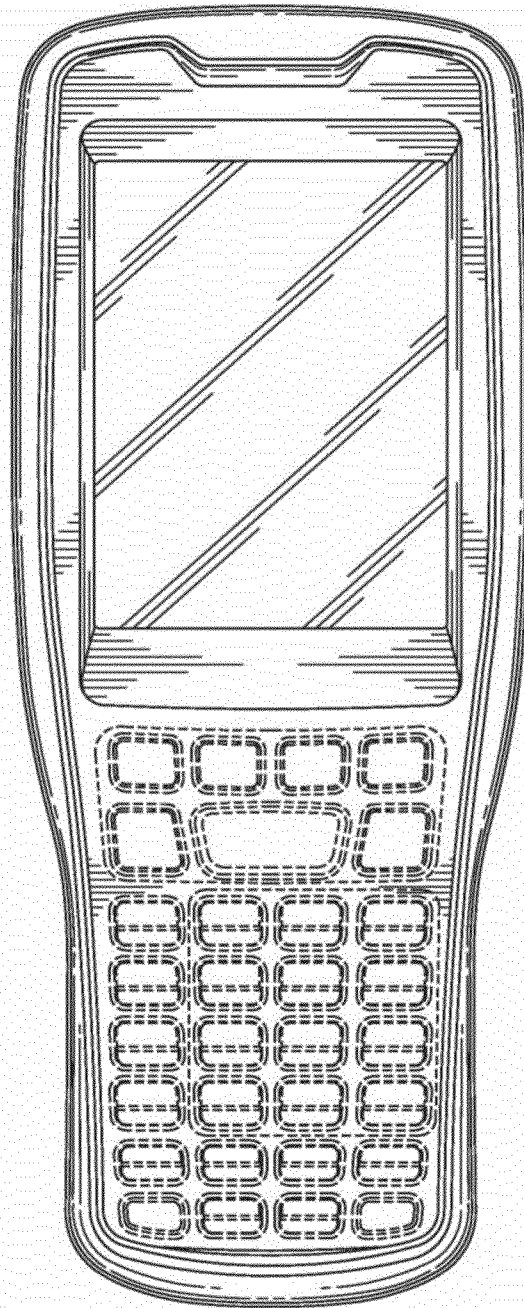


FIG. 2

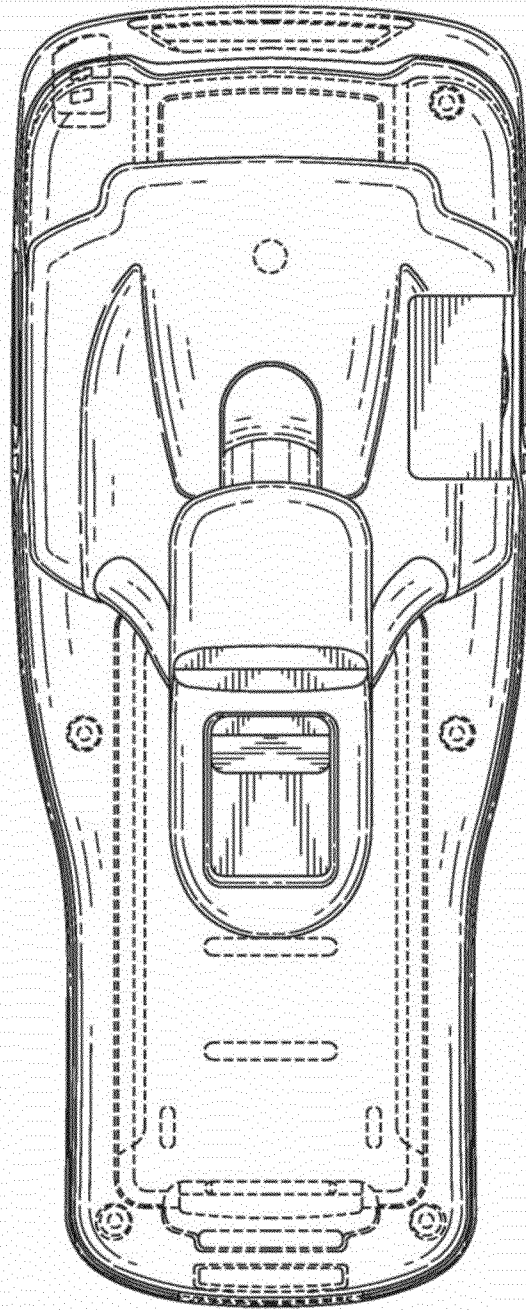


FIG. 3

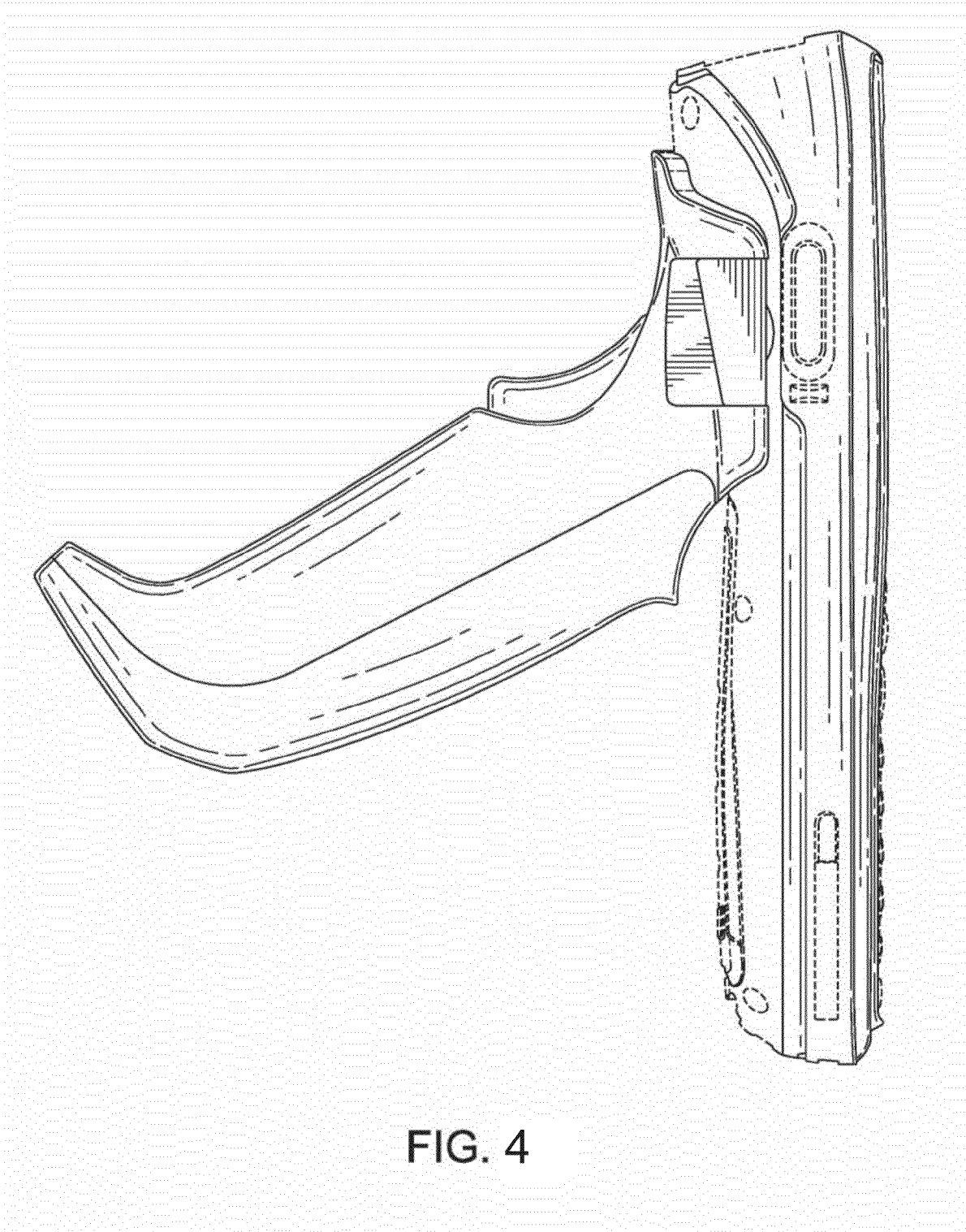


FIG. 4

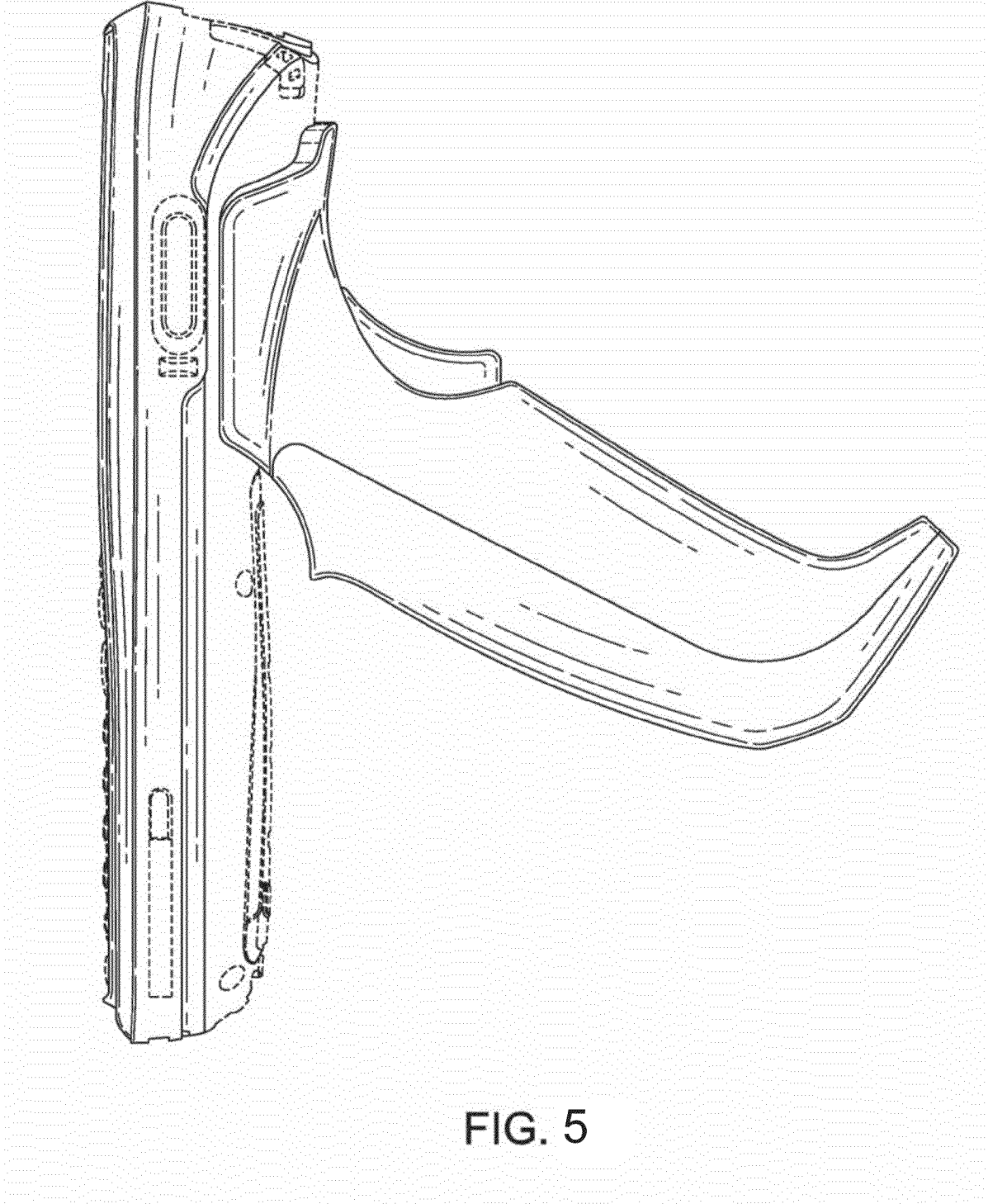


FIG. 5



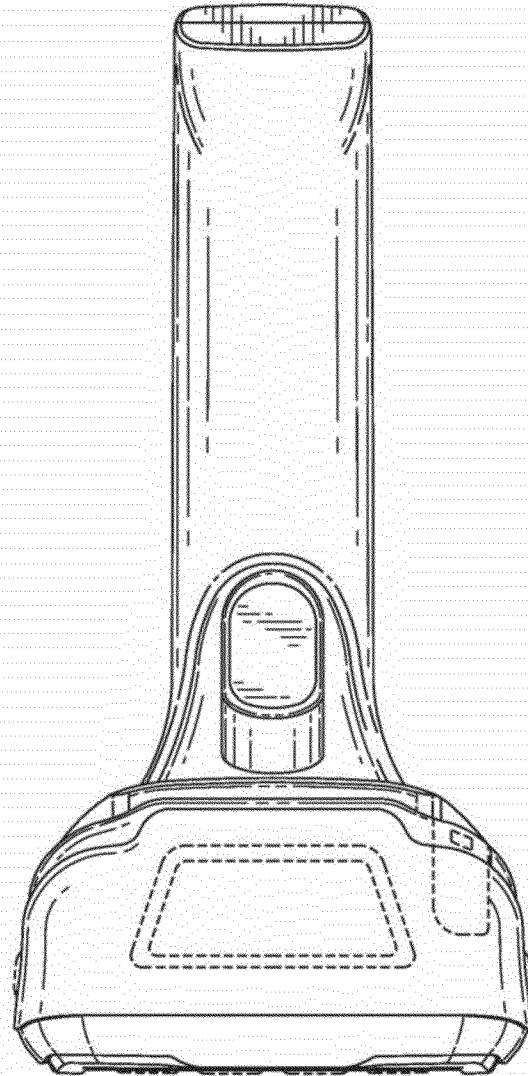


FIG. 6

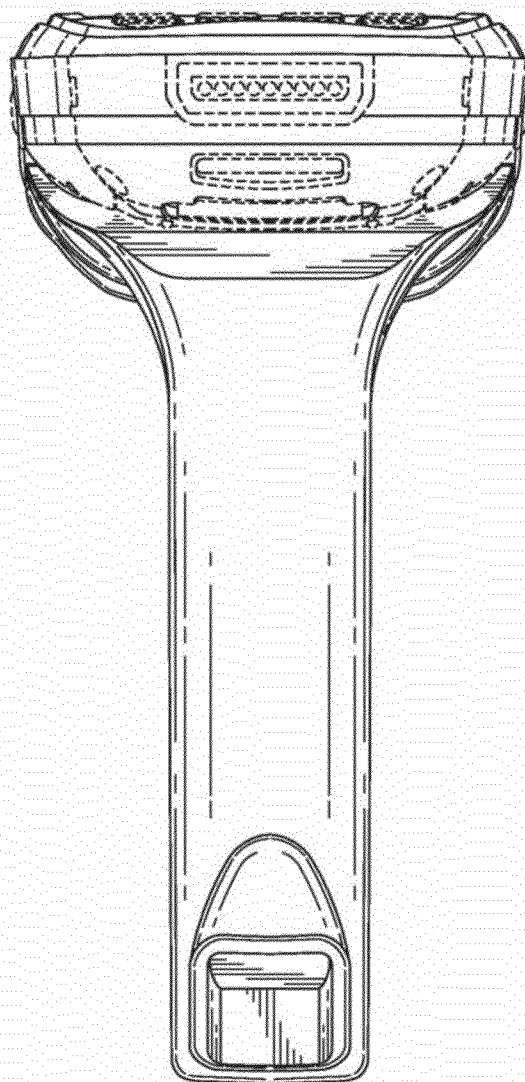


FIG. 7