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

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- (54) **JIGSAW**
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- 3,695,344 A 10/1972 Schnizler, Jr.
- 3,739,659 A 6/1973 Workman, Jr.
- 3,842,328 A 10/1974 Supel et al.
- 3,965,778 A 6/1976 Aspers et al.
- 4,002,959 A 1/1977 Schadlich et al.
- 4,118,615 A 10/1978 Leibundgut

(Continued)

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(52) **U.S. Cl.**
USPC **D8/64**

(58) **Field of Classification Search**
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 CPC B27B 19/09; B23D 49/162; B23D 49/165; B23D 49/167; B25F 5/02
 See application file for complete search history.

FOREIGN PATENT DOCUMENTS

- CN 2295295 Y 10/1998
- CN 2369805 Y 3/2000

(Continued)

OTHER PUBLICATIONS

International Search Report and Written Opinion for Application No. PCT/US2019/018701, dated May 29, 2019, 12 pages.

(Continued)

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(57) **CLAIM**

I claim the ornamental design for a jigsaw, as shown and described.

(56) **References Cited**

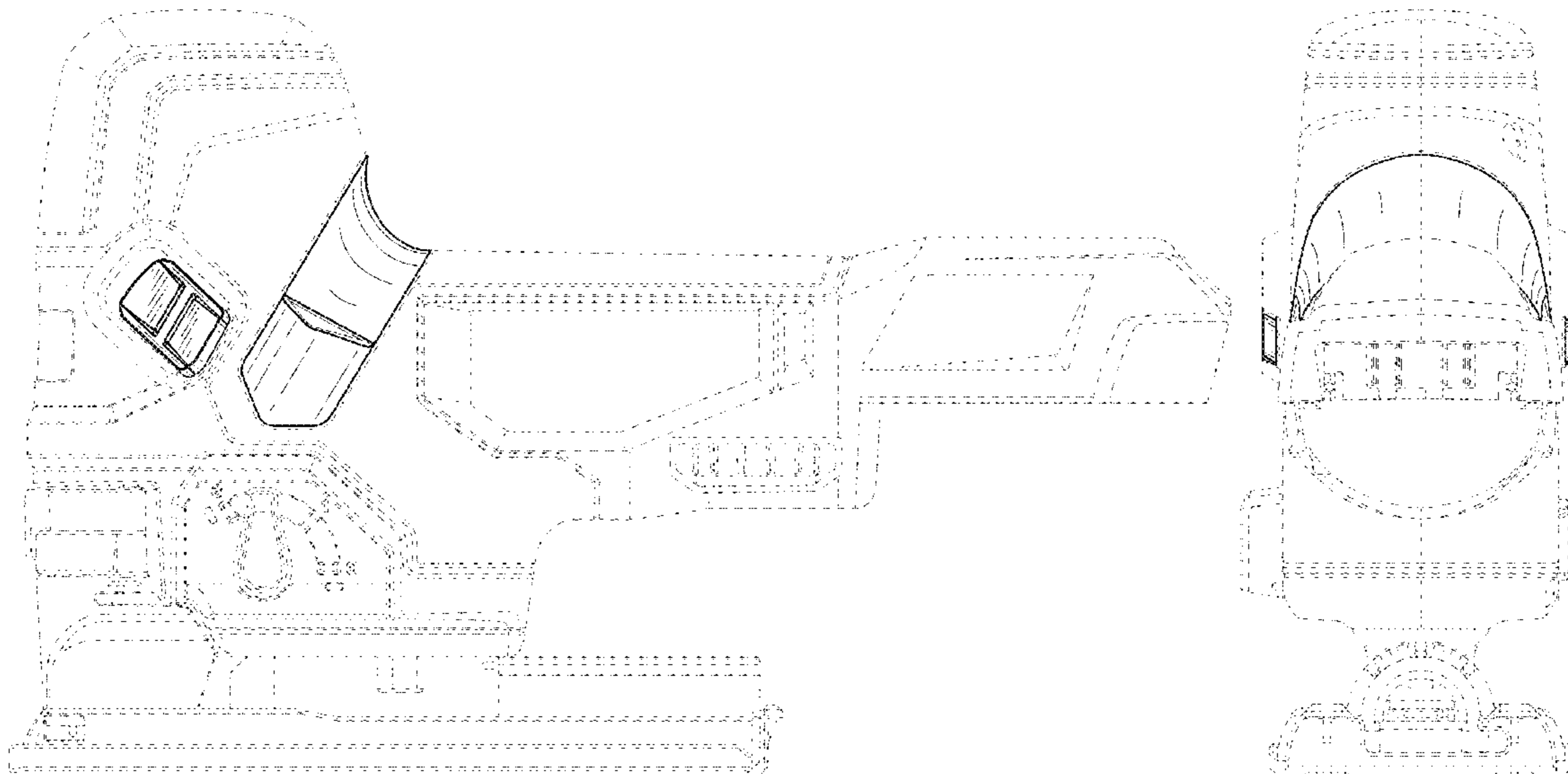
U.S. PATENT DOCUMENTS

- 2,306,769 A 12/1942 Wilhide
- 2,320,113 A 5/1943 Wilhide
- 2,781,800 A 2/1957 Papworth
- 2,931,402 A 4/1960 Papworth
- 2,949,944 A 8/1960 Blachly
- 2,980,218 A 4/1961 Young
- 3,121,813 A 2/1964 Pratt et al.
- 3,225,232 A 12/1965 Turley et al.
- 3,309,484 A 3/1967 Frenzel
- 3,328,613 A 6/1967 Gawron
- 3,388,728 A 6/1968 Riley, Jr. et al.
- 3,491,259 A 1/1970 Damijonaitis et al.
- 3,536,943 A 10/1970 Bowen, III et al.
- 3,611,095 A 10/1971 Schnizler

DESCRIPTION

FIG. 1 is a front perspective view of a jigsaw in accordance with an embodiment of the present invention.
 FIG. 2 is a left side view of the jigsaw of FIG. 1.
 FIG. 3 is a right side view of the jigsaw of FIG. 1.
 FIG. 4 is a front view of the jigsaw of FIG. 1.
 FIG. 5 is a rear view of the jigsaw of FIG. 1.
 FIG. 6 is a top view of the jigsaw of FIG. 1; and,
 FIG. 7 is a bottom view of the jigsaw of FIG. 1.
 The portions of the jigsaw shown in broken lines are included for the purpose of illustrating environment and form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS		
4,129,240	A	12/1978 Geist
4,157,491	A	6/1979 Werner et al.
4,238,884	A	12/1980 Walton, II
4,240,204	A	12/1980 Walton, II et al.
4,262,421	A	4/1981 Bergler et al.
4,298,072	A	11/1981 Baker et al.
4,307,325	A	12/1981 Saar
4,342,929	A	8/1982 Horne
4,348,603	A	9/1982 Huber
4,410,846	A	10/1983 Gerber et al.
4,412,158	A	10/1983 Jefferson et al.
4,418,562	A	12/1983 Sakai et al.
4,490,771	A	12/1984 Huber et al.
4,503,370	A	3/1985 Cuneo
4,504,769	A	3/1985 Fushiya et al.
4,516,324	A	5/1985 Heininger, Jr. et al.
4,543,723	A	10/1985 Bortfield et al.
4,574,226	A	3/1986 Binder
4,628,459	A	12/1986 Shinohara et al.
4,628,605	A	12/1986 Clowers
4,689,534	A	8/1987 Gerber et al.
4,725,764	A	2/1988 Prestel
4,881,435	A	11/1989 Hansson
4,940,177	A	7/1990 Jimena
4,964,558	A	10/1990 Crutcher et al.
5,007,776	A	4/1991 Shoji
5,017,109	A	5/1991 Albert et al.
5,105,130	A	4/1992 Barker et al.
5,115,175	A	5/1992 Fletcher
5,120,983	A	6/1992 Samann
5,146,682	A	9/1992 Blochle et al.
5,154,242	A	10/1992 Soshin et al.
5,196,747	A	3/1993 Kress et al.
5,203,242	A	4/1993 Hansson
5,268,622	A	12/1993 Philipp
5,440,215	A	8/1995 Gilmore
5,443,196	A	8/1995 Burlington
5,443,276	A	8/1995 Nasser et al.
5,526,460	A	6/1996 DeFrancesco et al.
5,558,476	A	9/1996 Uchida et al.
5,596,810	A	1/1997 Neubert et al.
5,605,268	A	2/1997 Hayashi et al.
5,644,846	A	7/1997 Durr et al.
5,732,870	A	3/1998 Moorman et al.
5,738,177	A	4/1998 Schell et al.
5,747,953	A	5/1998 Philipp
5,798,584	A	8/1998 Schaeffeler et al.
5,798,589	A	8/1998 Ohi et al.
5,923,145	A	7/1999 Reichard et al.
5,931,072	A	8/1999 Shibata
5,933,969	A	8/1999 Houben et al.
5,946,810	A	9/1999 Hoelderlin et al.
6,025,683	A	2/2000 Philipp
6,047,477	A	4/2000 Di Nicolantonio
D426,124	S *	6/2000 Kassalen D8/64
6,121,700	A	9/2000 Yamaguchi et al.
6,155,246	A	12/2000 Yamami et al.
6,241,027	B1	6/2001 Beck et al.
6,308,425	B1	10/2001 Schumann
6,320,286	B1	11/2001 Ramarathnam
6,353,705	B1	3/2002 Capps et al.
6,491,114	B1	12/2002 Webel
D468,983	S *	1/2003 Kondo D8/64
6,508,313	B1	1/2003 Carney et al.
6,518,719	B1	2/2003 Suzuki et al.
6,522,041	B1	2/2003 Verbrugge et al.
6,536,536	B1	3/2003 Gass et al.
6,538,403	B2	3/2003 Gorti et al.
6,568,089	B1	5/2003 Popik et al.
D475,264	S *	6/2003 Kondo D8/64
6,606,779	B2	8/2003 Verbrugge et al.
6,612,039	B2	9/2003 Kakiuchi et al.
6,669,072	B2	12/2003 Burke et al.
6,750,579	B2	6/2004 Verbrugge et al.
6,755,336	B2	6/2004 Harper et al.
6,771,043	B2	8/2004 Matsunaga et al.
6,796,475	B2	9/2004 Adams
6,810,589	B2	11/2004 Lagaly et al.
6,848,985	B2	2/2005 Lamprecht et al.
6,873,124	B2	3/2005 Kawano et al.
6,882,127	B2	4/2005 Konigbauer
6,892,459	B2	5/2005 Okumara et al.
6,945,337	B2	9/2005 Kawai et al.
6,974,061	B2	12/2005 Adams et al.
6,975,050	B2	12/2005 Cleanthous et al.
6,978,846	B2	12/2005 Kawai et al.
7,018,142	B2	3/2006 Cooper
7,047,651	B2	5/2006 Delfini et al.
D522,829	S *	6/2006 Andriolo D8/64
7,058,291	B2	6/2006 Weaver et al.
D524,620	S *	7/2006 Netzler D8/64
7,082,867	B2	8/2006 Liao
D527,598	S *	9/2006 Netzler D8/64
7,101,274	B1	9/2006 Etter et al.
7,103,979	B2	9/2006 Yoshida et al.
7,109,675	B2	9/2006 Matsunaga et al.
7,112,934	B2	9/2006 Gilmore
D530,173	S *	10/2006 Waldron D8/64
7,219,435	B2	5/2007 Yoshida et al.
7,246,533	B2	7/2007 Lagaly et al.
7,254,892	B2	8/2007 Walker
7,314,097	B2	1/2008 Jenner et al.
7,350,302	B2	4/2008 Imai et al.
7,372,226	B2	5/2008 Wiker et al.
7,419,013	B2	9/2008 Sainomoto et al.
7,428,934	B2	9/2008 Arimura
7,513,047	B2	4/2009 Wu
7,516,553	B2	4/2009 Yoshida et al.
7,518,837	B2	4/2009 Tseng et al.
7,526,867	B2	5/2009 Park
7,538,503	B2	5/2009 Machens et al.
7,552,749	B2	6/2009 Kageler et al.
7,554,290	B2	6/2009 Johnson et al.
7,596,873	B2	10/2009 Di Nicolantonio
7,628,102	B2	12/2009 Kamiya et al.
7,748,125	B2	7/2010 Rakaczki
7,771,253	B2	8/2010 Wuensch
7,784,388	B2	8/2010 Chen
7,818,887	B2	10/2010 Saegesser et al.
7,823,458	B2	11/2010 Kibblewhite et al.
7,882,899	B2	2/2011 Borinato et al.
7,882,900	B2	2/2011 Borinato et al.
7,893,586	B2	2/2011 West et al.
7,908,736	B2	3/2011 Smith et al.
8,022,654	B2	9/2011 Zhao et al.
8,046,926	B2	11/2011 Bigden et al.
RE43,041	E	12/2011 Adams et al.
8,074,731	B2	12/2011 Iwata et al.
8,082,825	B2	12/2011 Butler
8,141,444	B2	3/2012 Lagaly et al.
8,171,616	B2	5/2012 Smith et al.
8,176,069	B2	5/2012 Matsunaga et al.
8,179,069	B2	5/2012 Matsunaga et al.
8,272,135	B2	9/2012 Zhou
8,281,874	B2	10/2012 Imada et al.
8,291,603	B2	10/2012 Saegesser et al.
8,324,845	B2	12/2012 Suzuki et al.
8,336,432	B1	12/2012 Butler
8,360,166	B2	1/2013 Iimura et al.
8,461,785	B2	6/2013 Sidhu
8,564,236	B2	10/2013 Hirabayashi et al.
8,587,230	B2	11/2013 Pant et al.
8,587,231	B2	11/2013 Pant
8,627,900	B2	1/2014 Oomori et al.
8,653,764	B2	2/2014 Oberheim
8,656,598	B2	2/2014 Kaiser et al.
8,678,106	B2	3/2014 Matsunaga et al.
8,698,430	B2	4/2014 Watanabe et al.
8,713,806	B2	5/2014 Tokunaga et al.
8,732,962	B2	5/2014 Laett
8,752,644	B2	6/2014 Weusthof
8,757,287	B2	6/2014 Mak et al.
8,763,258	B2	7/2014 Miller et al.
8,813,373	B2	8/2014 Scott

(56)

References Cited

U.S. PATENT DOCUMENTS

8,826,548 B2 9/2014 Kaiser et al.
 8,881,842 B2 11/2014 Borinato et al.
 8,931,576 B2 1/2015 Iwata
 9,044,851 B2 6/2015 Tully
 9,085,087 B2 7/2015 Ni et al.
 9,114,519 B2 8/2015 Iwata et al.
 9,138,885 B2 9/2015 Tully
 9,154,009 B2 10/2015 Alemu
 9,186,735 B2 11/2015 Da Graca
 9,257,925 B2 2/2016 Coates
 9,314,855 B2 4/2016 Ookubo et al.
 9,314,900 B2 4/2016 Vanko et al.
 9,318,932 B2 4/2016 Purohit et al.
 9,321,112 B2 4/2016 Vantran et al.
 9,406,915 B2 8/2016 White et al.
 9,444,307 B2 9/2016 Watanabe et al.
 9,450,472 B2 9/2016 Hatfield et al.
 9,543,871 B2 1/2017 Kato
 9,554,807 B2 1/2017 McGinley et al.
 9,583,745 B2 2/2017 White et al.
 9,583,793 B2 2/2017 White et al.
 9,604,355 B2 3/2017 Tully
 9,762,153 B2 9/2017 Forster et al.
 9,827,623 B2 11/2017 Gibbons et al.
 9,833,891 B2 12/2017 Patterson
 9,866,153 B2 1/2018 Kusakawa
 9,871,484 B2 1/2018 White et al.
 9,889,548 B2 2/2018 Sattler
 9,893,384 B2 2/2018 Velderman et al.
 2002/0057147 A1 5/2002 Shinoura et al.
 2002/0185514 A1 12/2002 Adams et al.
 2003/0015979 A1 1/2003 Karwath
 2003/0121677 A1 7/2003 Watanabe et al.
 2003/0190877 A1 10/2003 Gallagher et al.
 2004/0113583 A1 6/2004 Konigbauer
 2004/0117993 A1 6/2004 Armstrong
 2004/0197159 A1 10/2004 Ishida et al.
 2004/0200628 A1 10/2004 Schmitzer et al.
 2005/0058890 A1 3/2005 Brazell et al.
 2005/0061523 A1 3/2005 Bader et al.
 2005/0132582 A1 6/2005 Gudmundson
 2006/0096103 A1 5/2006 Roberts
 2006/0168824 A1 8/2006 Lagaly et al.
 2006/0255166 A1 11/2006 Imamura et al.
 2006/0288594 A1 12/2006 Delfini et al.
 2007/0101586 A1 5/2007 Felder et al.
 2007/0247095 A1 10/2007 Machens et al.
 2007/0273311 A1 11/2007 Guinet et al.
 2008/0010840 A1 1/2008 Lagaly et al.
 2008/0189962 A1 8/2008 Reuss et al.
 2008/0209742 A1 9/2008 Kretschmar et al.
 2009/0000128 A1 1/2009 Kaiser et al.
 2009/0077820 A1 3/2009 Gibbons et al.
 2010/0000100 A1 1/2010 Saegesser et al.
 2010/0031517 A1 2/2010 Fukinuki et al.
 2010/0034604 A1 2/2010 Imamura et al.
 2010/0175902 A1 7/2010 Rejman et al.
 2010/0222713 A1 9/2010 Faller et al.
 2010/0224384 A1 9/2010 Gwosdz et al.
 2010/0229892 A1 9/2010 Reese et al.
 2011/0114347 A1 5/2011 Kasuya et al.
 2011/0154921 A1 6/2011 Duan
 2011/0162861 A1 7/2011 Borinato et al.
 2011/0239473 A1 10/2011 Zurkirchen
 2011/0283858 A1 11/2011 Zhou
 2011/0303427 A1 12/2011 Tang
 2012/0192440 A1 8/2012 Jerabek et al.
 2012/0199372 A1 8/2012 Nishikawa et al.
 2012/0247796 A1 10/2012 Mueller et al.
 2012/0279736 A1 11/2012 Tanimoto et al.
 2013/0062086 A1 3/2013 Ito et al.
 2013/0076271 A1 3/2013 Suda et al.
 2013/0087355 A1 4/2013 Oomori et al.
 2013/0126202 A1 5/2013 Oomori et al.
 2013/0145631 A1 6/2013 Ni et al.

2013/0171918 A1 7/2013 Huang
 2013/0187587 A1 7/2013 Knight et al.
 2013/0189043 A1 7/2013 Ushiuzo et al.
 2013/0206437 A1 8/2013 Saitou
 2013/0207491 A1 8/2013 Hatfield et al.
 2013/0270934 A1 10/2013 Smith et al.
 2013/0277081 A1 10/2013 Hayashi et al.
 2013/0333910 A1 12/2013 Tanimoto et al.
 2013/0342041 A1 12/2013 Ayers et al.
 2014/0013917 A1 1/2014 Meier
 2014/0062265 A1 3/2014 Zeng et al.
 2014/0117892 A1 5/2014 Coates
 2014/0216773 A1 8/2014 Steurer
 2014/0216777 A1 8/2014 Emch et al.
 2014/0245620 A1 9/2014 Fankhauser et al.
 2014/0310964 A1 10/2014 Miller et al.
 2014/0331506 A1 11/2014 Sugita et al.
 2014/0352995 A1 12/2014 Matsunaga et al.
 2015/0042247 A1 2/2015 Kusakawa
 2015/0135907 A1 5/2015 Hirabayashi et al.
 2015/0148806 A1 5/2015 McGinley et al.
 2015/0212512 A1 7/2015 Butler
 2015/0290790 A1 10/2015 Schomisch et al.
 2015/0298308 A1 10/2015 Kato
 2016/0008961 A1 1/2016 Takano et al.
 2016/0079887 A1 3/2016 Takano et al.
 2016/0129578 A1 5/2016 Sprenger et al.
 2016/0151845 A1 6/2016 Yamamoto et al.
 2016/0193673 A1 7/2016 Yoshida et al.
 2016/0218589 A1 7/2016 Purohit et al.
 2017/0008159 A1 1/2017 Boeck et al.
 2017/0151660 A1 6/2017 Tully
 2017/0157760 A1 6/2017 McAuliffe et al.
 2017/0222579 A1 8/2017 Wang et al.
 2017/0264219 A1 9/2017 Takeda
 2017/0338452 A1 11/2017 Varipatis et al.
 2017/0338753 A1 11/2017 Forster et al.
 2017/0338754 A1 11/2017 Forster et al.
 2018/0099394 A1 4/2018 Ichikawa et al.
 2018/0316292 A1 11/2018 Wu

FOREIGN PATENT DOCUMENTS

CN 1695857 A 11/2005
 CN 201244699 Y 5/2009
 CN 201659555 12/2010
 CN 101989070 A 3/2011
 CN 202068299 12/2011
 CN 202622753 12/2012
 CN 103567500 2/2014
 CN 103785665 A 5/2014
 CN 203660853 6/2014
 CN 104065231 9/2014
 CN 203843806 9/2014
 CN 204103728 1/2015
 CN 104690596 A 6/2015
 CN 204517624 7/2015
 CN 204585170 8/2015
 CN 204585171 8/2015
 CN 204696893 10/2015
 CN 105215951 1/2016
 CN 205310192 6/2016
 CN 106964843 A 7/2017
 CN 107570799 1/2018
 DE 3318199 11/1984
 DE 2650470 A1 5/1987
 DE 3538941 5/1987
 DE 3538942 5/1987
 DE 8808570 U1 9/1988
 DE 3214482 C2 10/1988
 DE 19617477 11/1997
 DE 202007004931 9/2007
 DE 202007010879 10/2007
 DE 202008010458 U1 11/2008
 DE 102007042185 A1 3/2009
 DE 102009032405 A1 5/2010
 DE 102010001030 A1 7/2011
 DE 102012218275 4/2014
 DE 102013202202 8/2014

(56)

References Cited

FOREIGN PATENT DOCUMENTS

DE	102016210937	A1	12/2017
EP	31867		7/1981
EP	0018465	B1	4/1984
EP	224053		6/1987
EP	0423673	B1	12/1994
EP	0628762	A1	12/1994
EP	0716492	A1	6/1996
EP	0617505	B1	11/1996
EP	1074327	A2	2/2001
EP	1442813	A2	8/2004
EP	3000563	A1	3/2016
EP	3260240	A1	12/2017
JP	S63251175	A	10/1988
JP	S63176075	U	11/1988
JP	H08141928	A	6/1996
JP	H08290312	A	11/1996
JP	H11164579	A	6/1999
JP	2004255542	A	9/2004
JP	2004322262	A	11/2004
JP	4359018	B2	11/2009
JP	2009297807	A	12/2009
JP	2010110875	A	5/2010

JP	2014233793	A	12/2014
JP	2015024486	A	2/2015
NL	8803009	A	7/1990
WO	WO2005102602	A2	11/2005
WO	WO2007083447	A1	7/2007
WO	WODM073765		3/2010
WO	2010081771		7/2010
WO	WO2011018276	A1	2/2011
WO	WO2011047904	A1	4/2011
WO	WO2011072436	A1	6/2011
WO	WO2011134775	A1	11/2011
WO	WO2012135608	A1	10/2012
WO	WO2013161118	A1	10/2013
WO	WO2014001124	A1	1/2014

OTHER PUBLICATIONS

Festool USA, "Getting Started: Festool Carvex Jigsaw—Setup and Common Uses." YouTube, published Sep. 17, 2013, <https://www.youtube.com/watch?v=6ZPlodgspwc>.

International Search Report and Written Opinion for Application No. PCT/US2019/023537, dated Jul. 4, 2019, 12 pages.

* cited by examiner

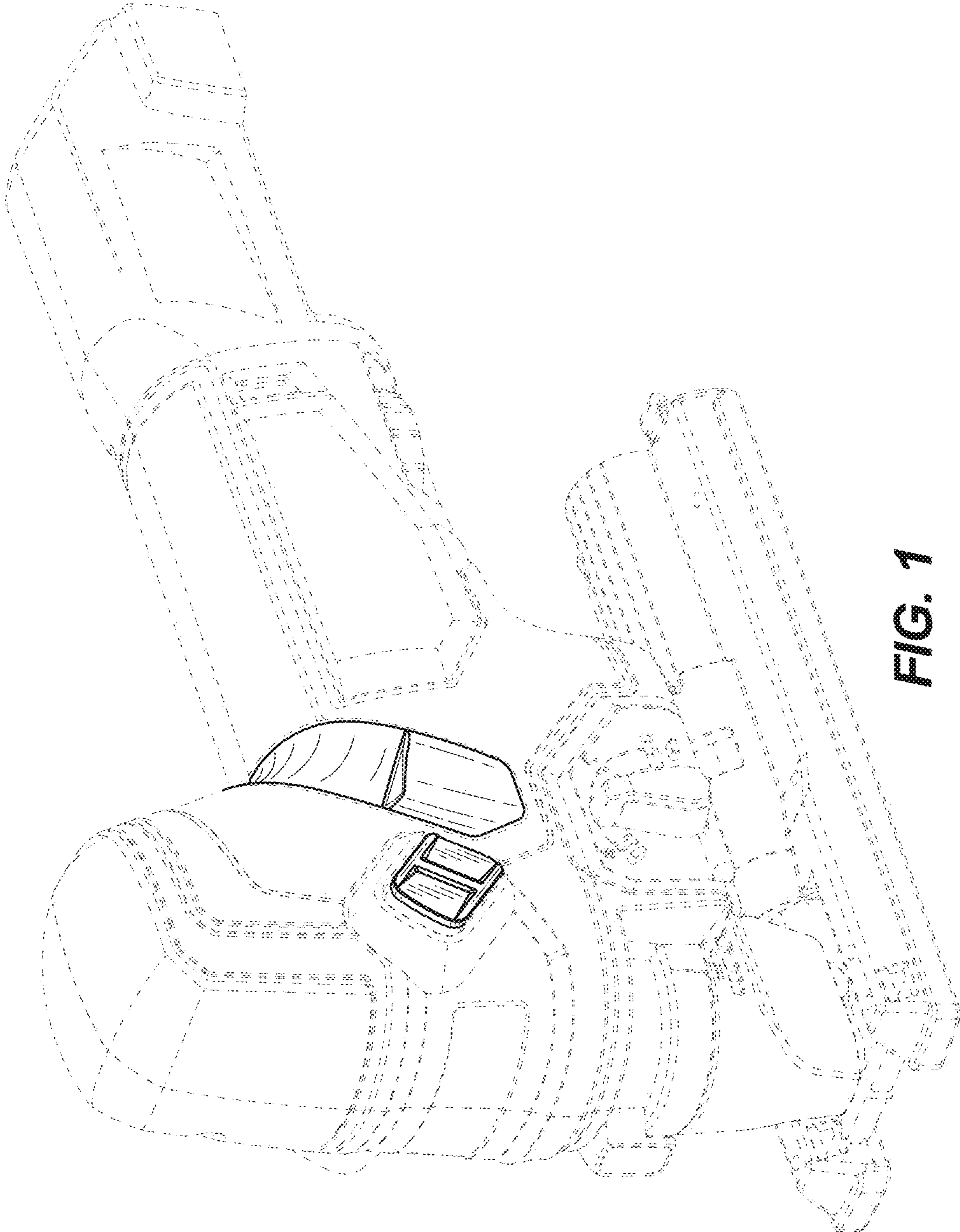


FIG. 1

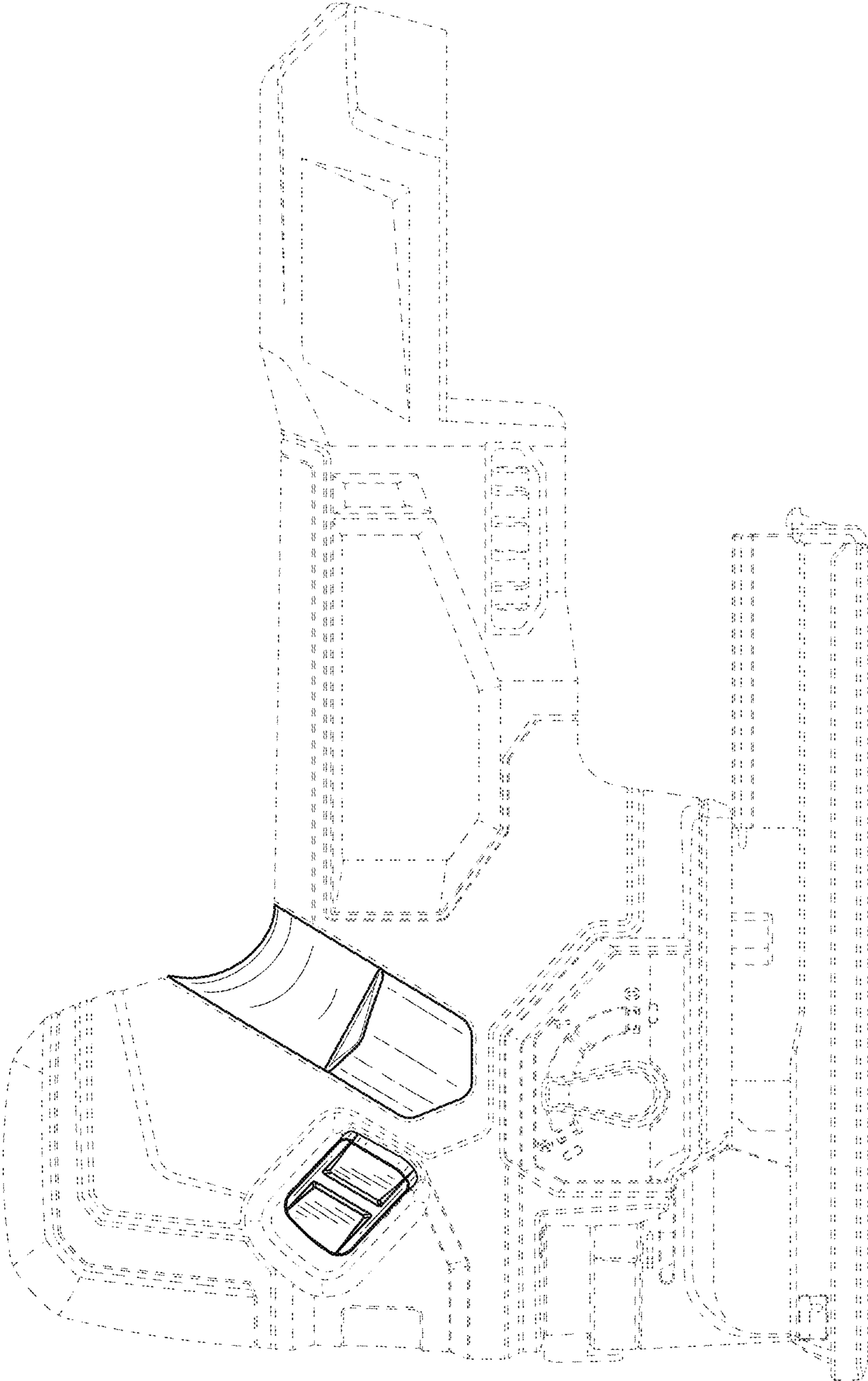


FIG. 2

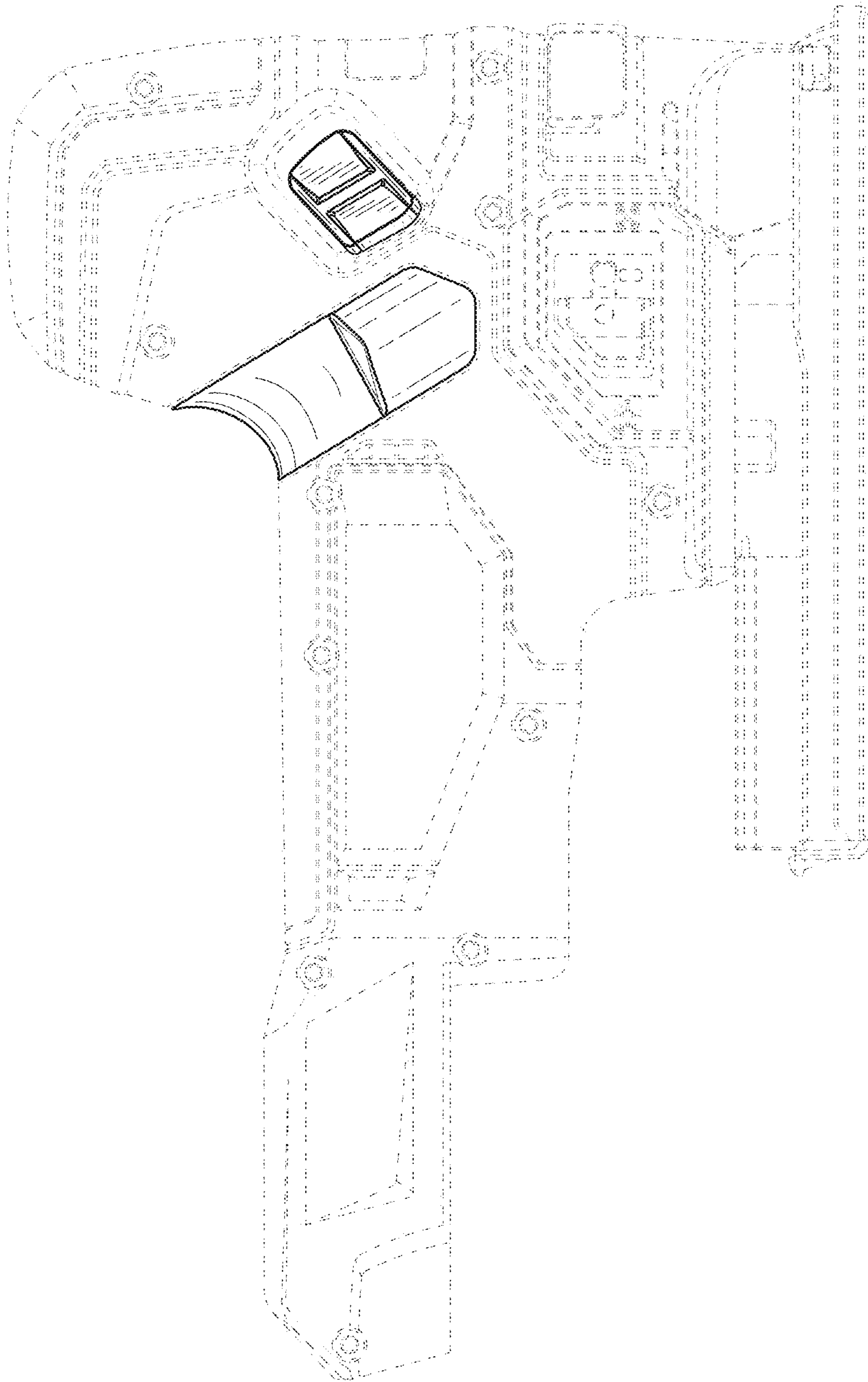


FIG. 3

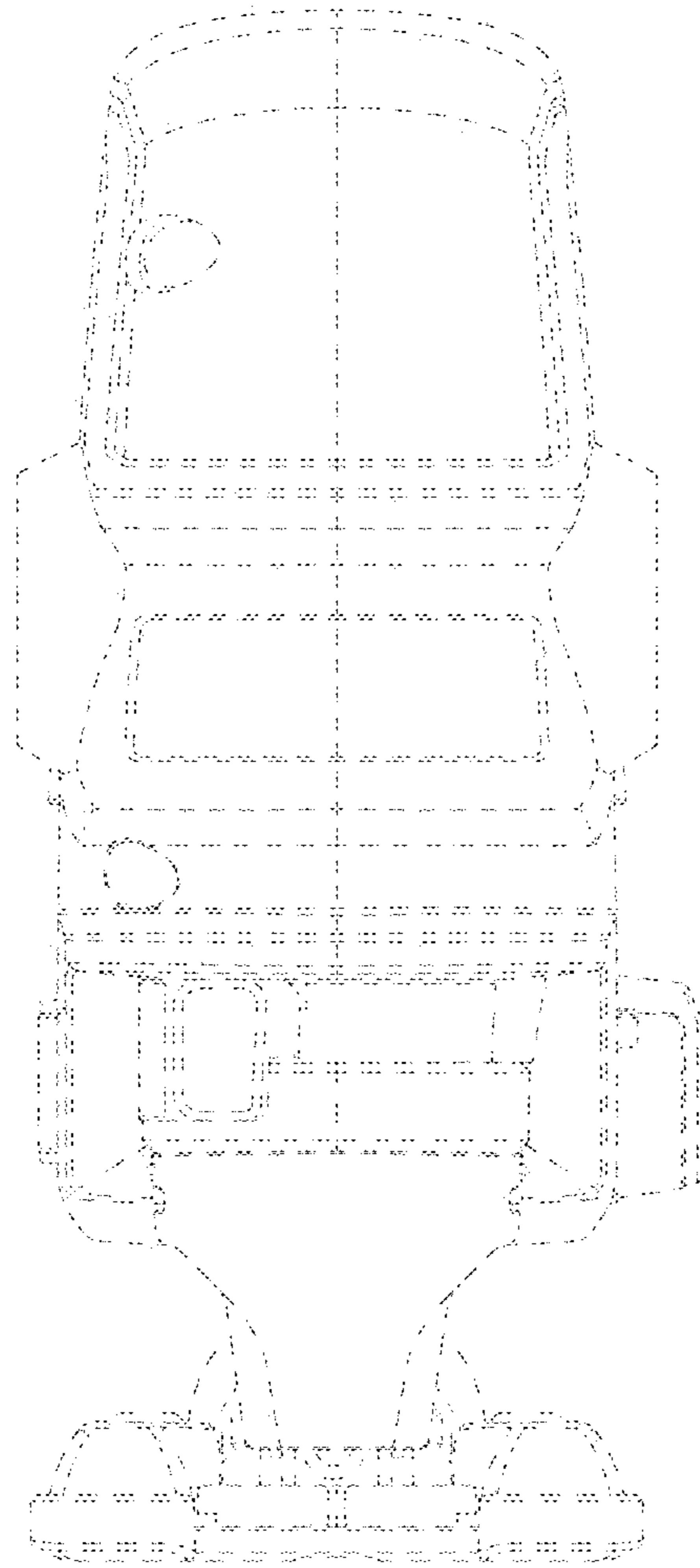


FIG. 4

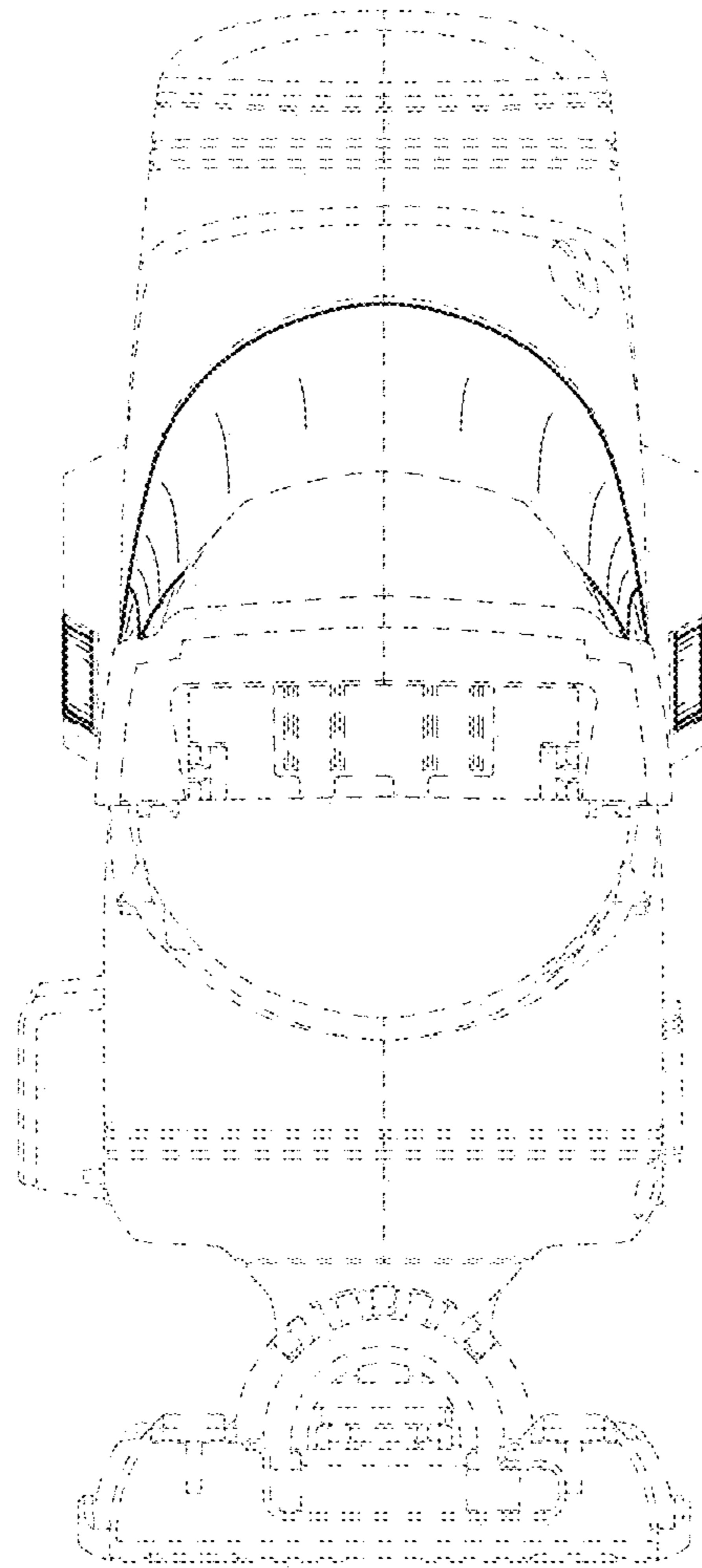


FIG. 5

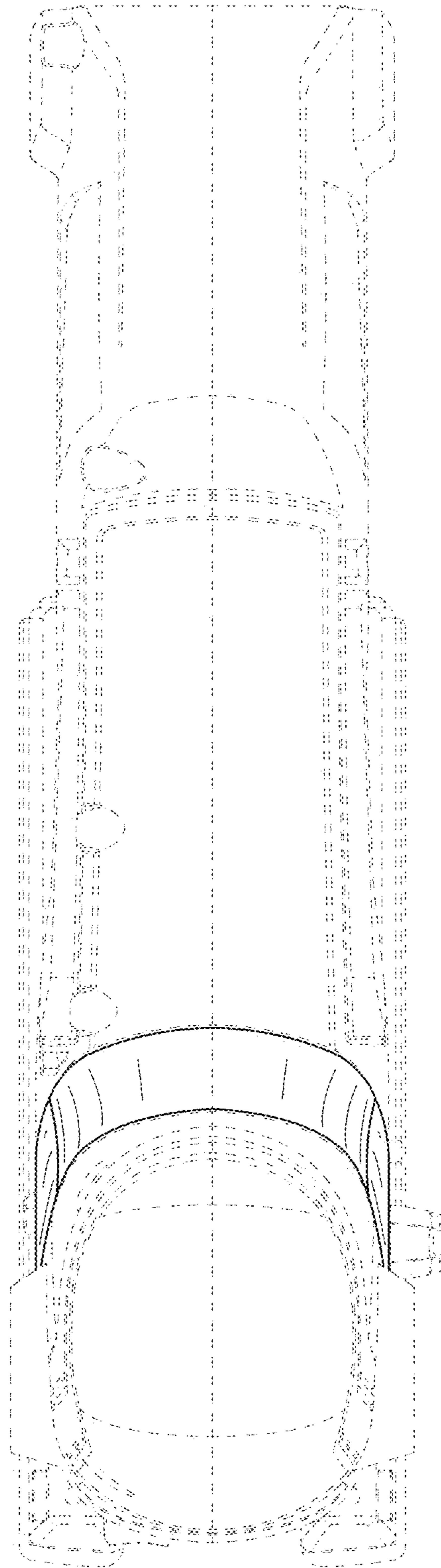


FIG. 6

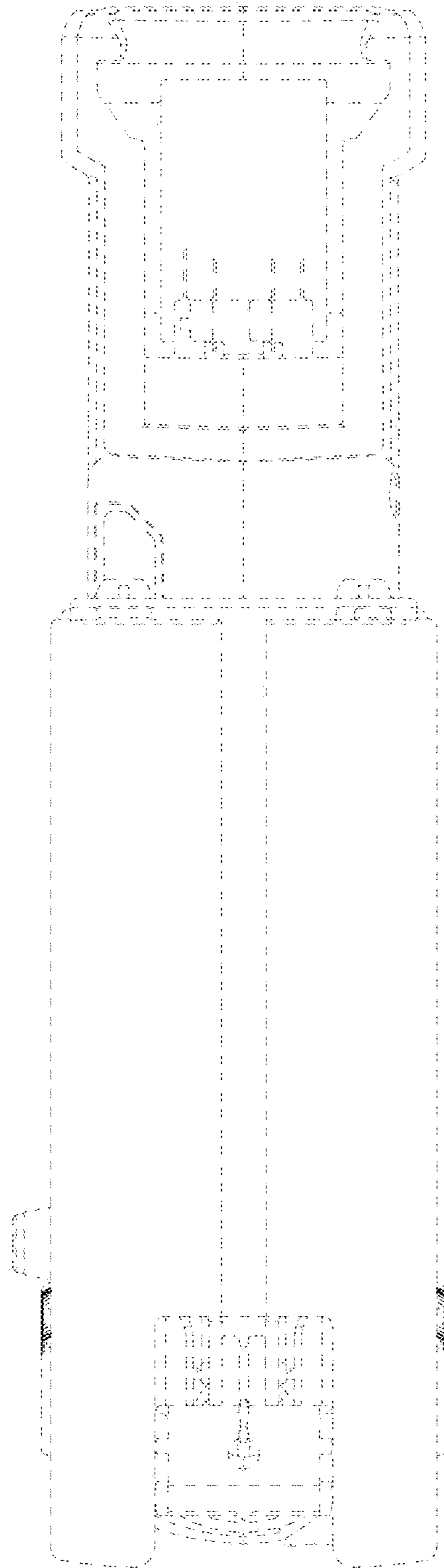


FIG. 7