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Gall et al.

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(54) LIGHTING APPARATUS

FOREIGN PATENT DOCUMENTS

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CN 1319417 C 5/2007
CN 1324398 C 7/2007
(Continued)

OTHER PUBLICATIONS

M12 Paint and Detailing Color Match Light. By Milwaukee. No Date. Found online [Mar. 1, 2023]. <https://www.milwaukeeetool.com/Products/Lighting/2127-20> (Year: 2023).*

(Continued)

(**) Term: 15 Years

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CPC .. F21Y 2115/10; F21V 21/084; F21V 21/145; F21V 14/045; F21V 21/0965; F21V 21/0885; F21V 14/025; F21V 33/0068; F21W 2111/10

See application file for complete search history.

(57) CLAIM

We claim the ornamental design for a lighting apparatus, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a lighting apparatus embodying the invention.

FIG. 2 is a top view of the lighting apparatus of FIG. 1.

FIG. 3 is a bottom view of the lighting apparatus of FIG. 1.

FIG. 4 is a first side view of the lighting apparatus of FIG. 1.

FIG. 5 is a second side view of the lighting apparatus of FIG. 1.

FIG. 6 is a third side view of the lighting apparatus of FIG. 1; and,

FIG. 7 is a fourth side view of the lighting apparatus of FIG. 1.

Portions of the lighting apparatus shown in broken lines form no part of the claimed design.

(56) References Cited

U.S. PATENT DOCUMENTS

D401,369 S * 11/1998 McClintock D26/37

5,898,793 A 4/1999 Karron et al.

6,441,558 B1 8/2002 Muthu et al.

D477,432 S * 7/2003 Parsons D26/37

7,106,378 B2 9/2006 Kawakami

7,255,457 B2 8/2007 Ducharme et al.

7,372,499 B2 5/2008 Kawakami

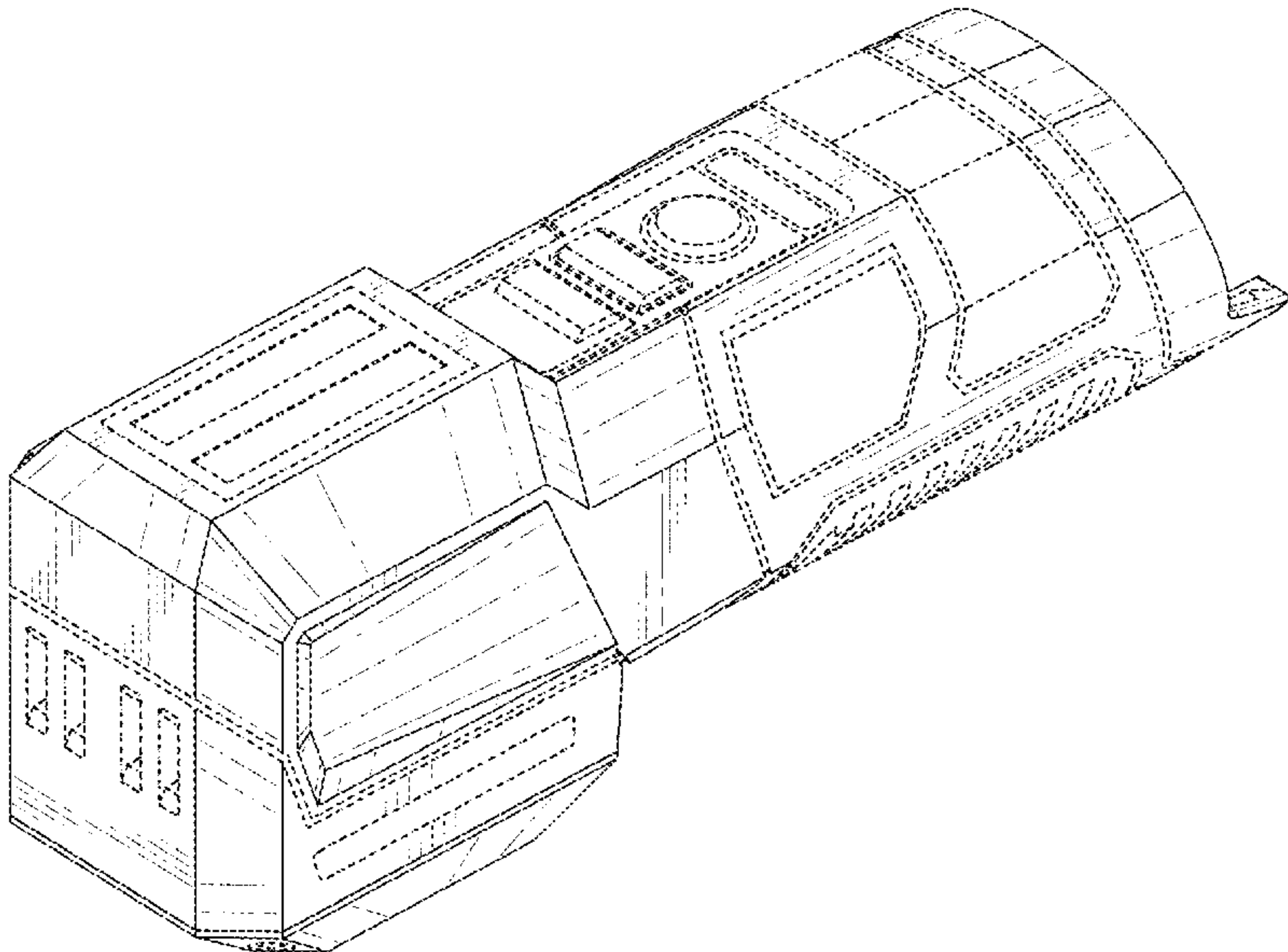
D584,842 S * 1/2009 Sham D26/37

D598,593 S * 8/2009 Kingston D26/37

7,972,028 B2 7/2011 Durand et al.

(Continued)

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D643,138 S * 8/2011 Kawase D26/37
8,143,807 B2 3/2012 Hsieh et al.
8,203,260 B2 6/2012 Li et al.
8,159,125 B2 8/2012 Miao
8,358,089 B2 1/2013 Hsia et al.
8,421,910 B2 4/2013 Kawakami
8,436,549 B2 5/2013 Hasnain
8,513,900 B2 8/2013 Yan et al.
8,598,793 B2 12/2013 Yan et al.
8,634,021 B2 1/2014 Kawakami
8,675,124 B2 3/2014 Kawakami
D702,382 S * 4/2014 Ma D26/44
D708,376 S * 7/2014 Crowe D26/37
8,773,024 B2 7/2014 Yan et al.
8,773,337 B2 7/2014 Li et al.
8,853,964 B2 10/2014 Sutardja et al.
8,947,013 B2 2/2015 Sutardja et al.
8,970,101 B2 3/2015 Sutardja et al.
D726,354 S * 4/2015 Davies D26/37
9,024,529 B2 5/2015 Yan et al.
9,055,647 B2 6/2015 Sutardja et al.
9,241,385 B2 1/2016 Sutardja et al.
9,402,295 B2 7/2016 Lipscombe
9,408,274 B2 8/2016 Sutardja et al.
9,479,751 B2 10/2016 Kawakami
9,538,603 B2 1/2017 Shearer et al.
9,554,441 B2 1/2017 Sutardja et al.
9,560,713 B2 1/2017 Lee et al.
9,668,315 B2 5/2017 Shearer et al.
9,719,642 B1 8/2017 Macias
9,723,681 B2 8/2017 Tsai et al.
9,794,999 B2 10/2017 Lee et al.
9,801,250 B1 10/2017 Halliwell
9,807,843 B2 10/2017 Koo
9,845,924 B1 12/2017 Macias
9,992,841 B2 6/2018 Shearer et al.
9,995,440 B2 6/2018 Edwards
10,045,419 B2 8/2018 Wang et al.
10,091,855 B2 10/2018 Van Winkle
10,104,742 B2 10/2018 Halliwell
10,197,224 B1 2/2019 Macias
10,250,863 B2 4/2019 Kawakami
10,326,970 B1 6/2019 Kawakami
10,411,582 B1 9/2019 Macias
10,433,390 B2 10/2019 Halliwell
10,462,871 B2 10/2019 Van Winkle
10,492,262 B2 11/2019 Van Winkle
10,566,895 B1 2/2020 Macias
D878,648 S * 3/2020 Zhao D26/37
10,683,969 B2 6/2020 Jeswani et al.
10,718,473 B1 7/2020 Macias

10,791,599 B2 9/2020 Shearer et al.
D928,369 S * 8/2021 Huang D26/37
D930,201 S * 9/2021 Shang D26/37
2008/0136960 A1 6/2008 Kawakami
2012/0038291 A1 2/2012 Hasnain
2018/0279441 A1 9/2018 Shearer et al.
2018/0288847 A1 10/2018 Halliwell
2019/0253684 A1 8/2019 Kawakami
2019/0331306 A1 * 10/2019 Westling F21V 5/006
2019/0373701 A1 12/2019 Halliwell
2020/0263840 A1 8/2020 Jeswani et al.
2022/0221115 A1 * 7/2022 Hopkins F21L 4/027

FOREIGN PATENT DOCUMENTS

CN 100534135 C 8/2009
CN 100582916 C 1/2010
CN 101657876 B 9/2013
CN 204651315 U 9/2015
CN 204810631 U 11/2015
CN 102781140 B 2/2016
CN 105657893 A 6/2016
CN 106958746 A 7/2017
CN 206708876 U 12/2017
CN 206771006 U 12/2017
CN 105025635 B 4/2018
CN 105491761 B 8/2018
CN 109185819 A 1/2019
CN 109587895 A 4/2019
CN 211061831 U 7/2020
DE 102016200525 A1 7/2017
DE 102016214048 A1 2/2018
EP 1346609 B1 8/2005
EP 1176849 B1 1/2010
EP 1701590 B1 11/2011
EP 1701591 B1 11/2011
EP 1887835 B1 8/2015
EP 3274620 B1 1/2018
EP 2523534 B1 8/2019
WO WO0247437 A2 6/2002
WO WO2008127593 A1 10/2008
WO WO2012021428 A1 2/2012
WO WO2012021454 A1 2/2012
WO WO2013090747 A1 6/2013
WO WO2016156269 A1 10/2016
WO WO2017114146 A1 7/2017

OTHER PUBLICATIONS

Bridgelux, “Bridgelux® Vesta® Series Tunable White Gen 2 9mm Array, 90 CRI and Thrive™”, Product Data Sheet DS350, Rev F—Jul. 2020 (21 Pages).

* cited by examiner

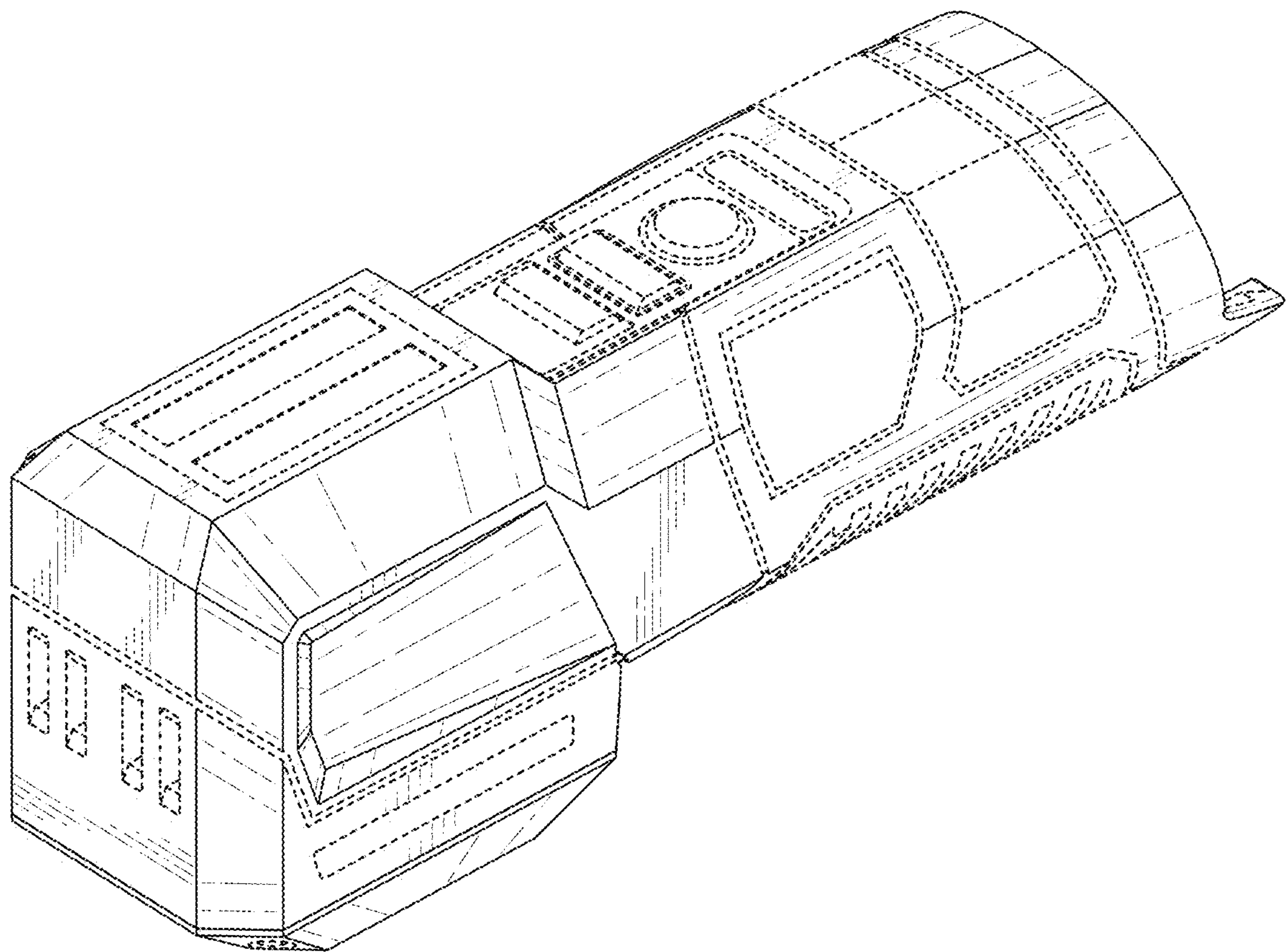


FIG. 1

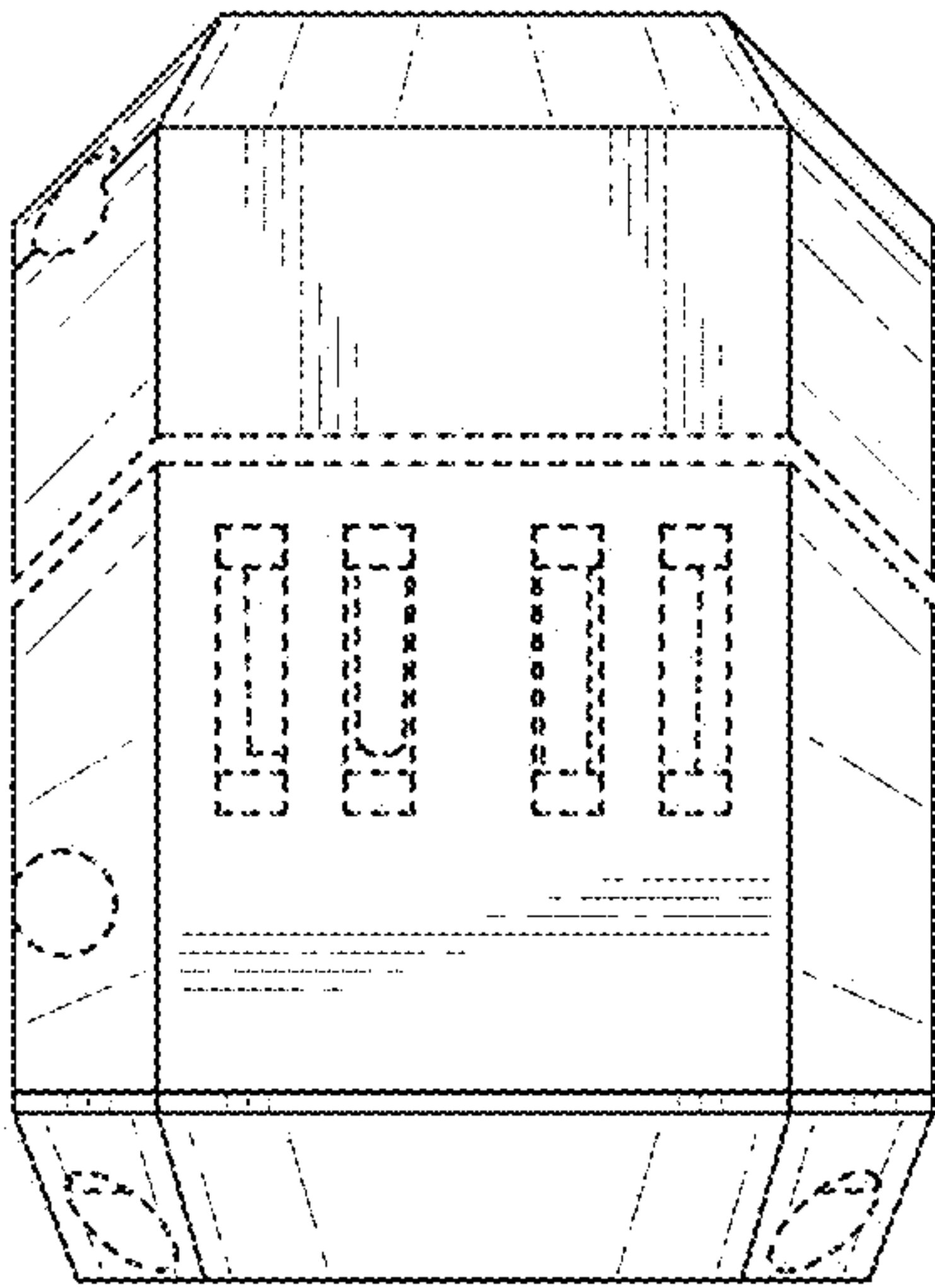


FIG. 2

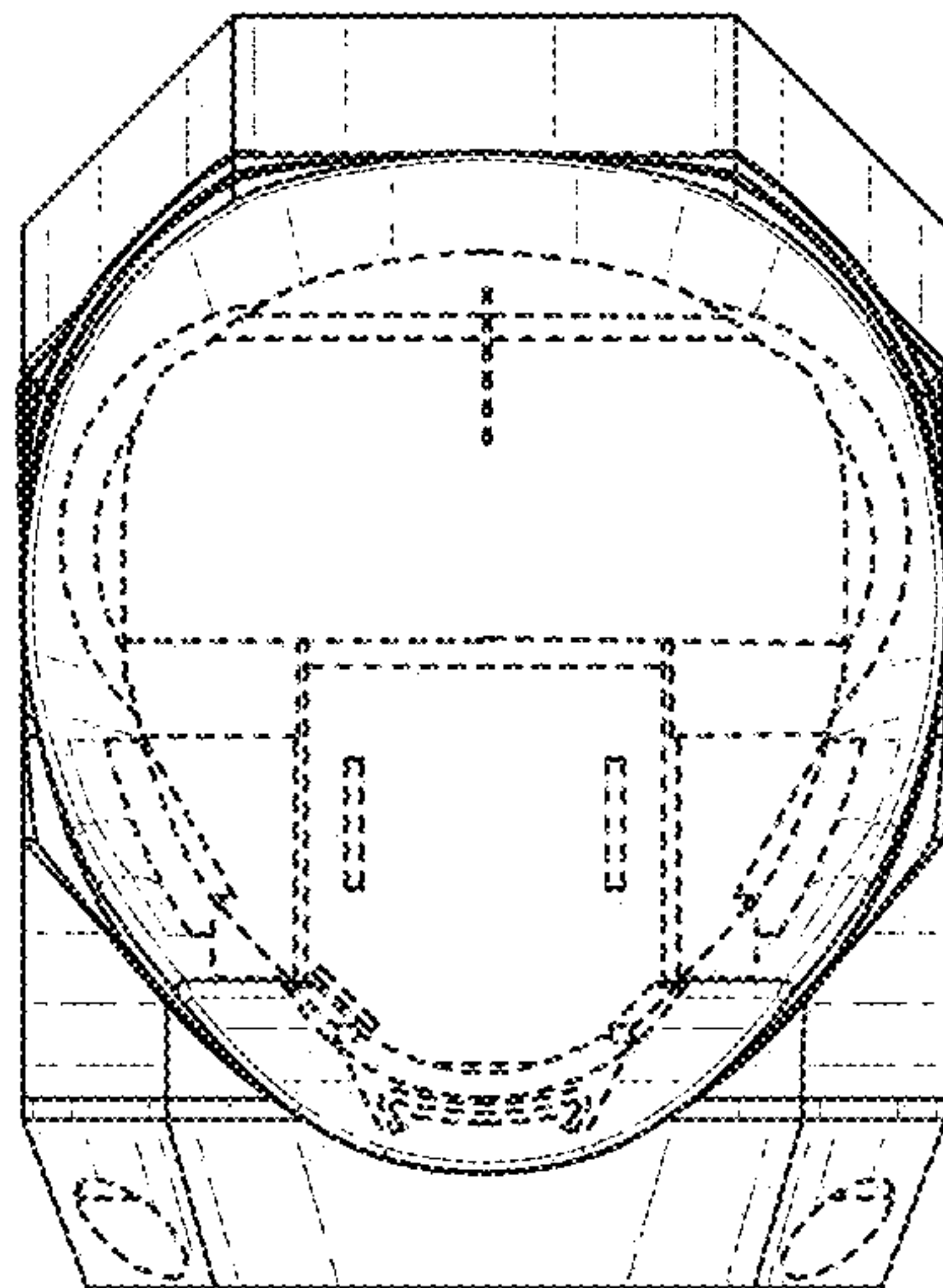


FIG. 3

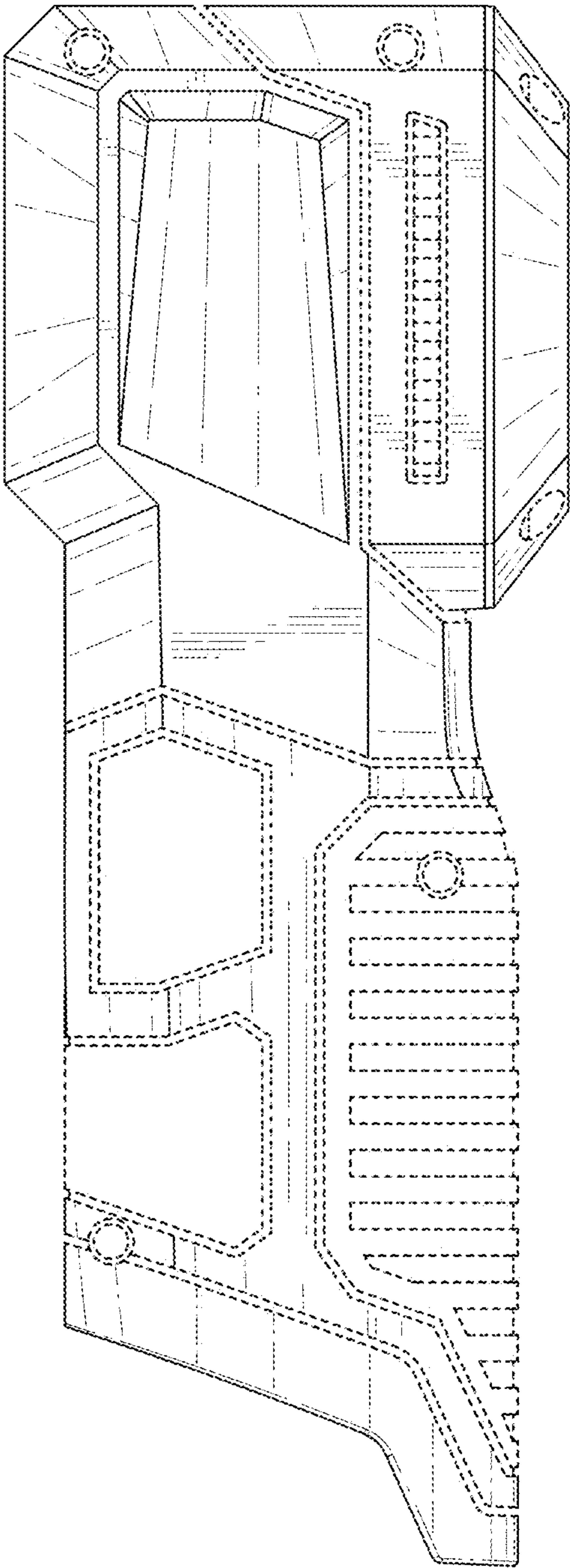


FIG. 4

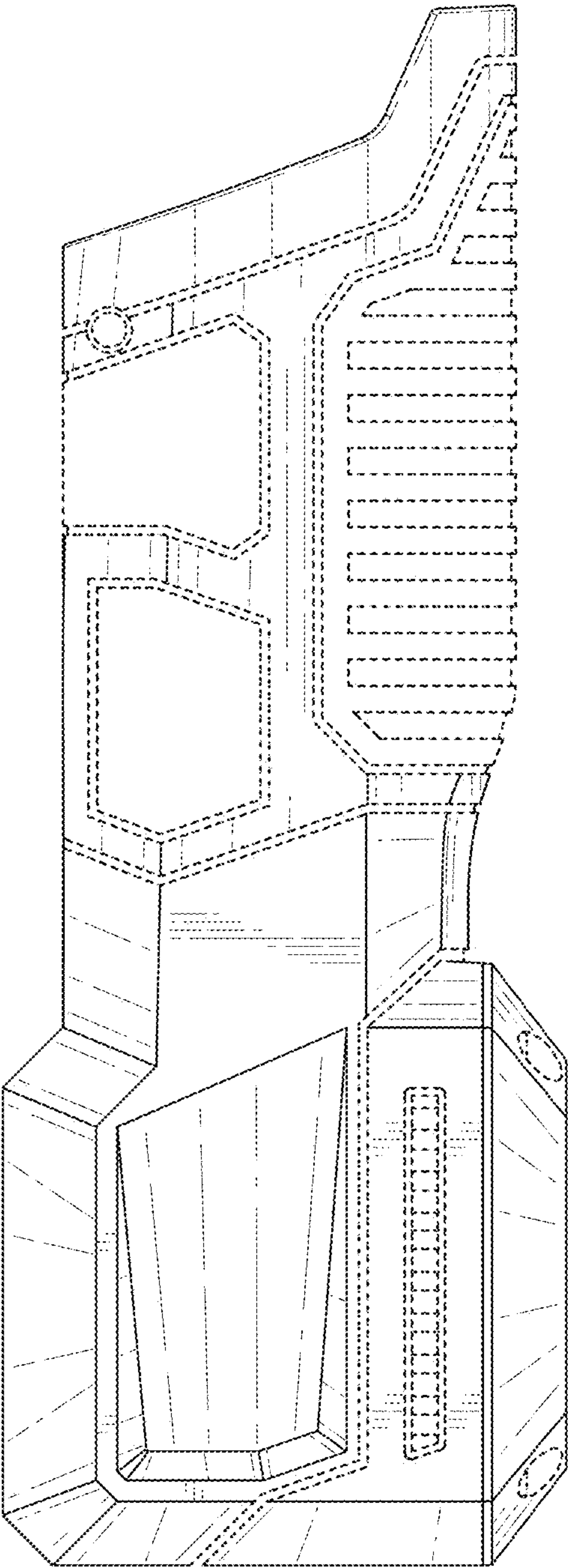


FIG. 5

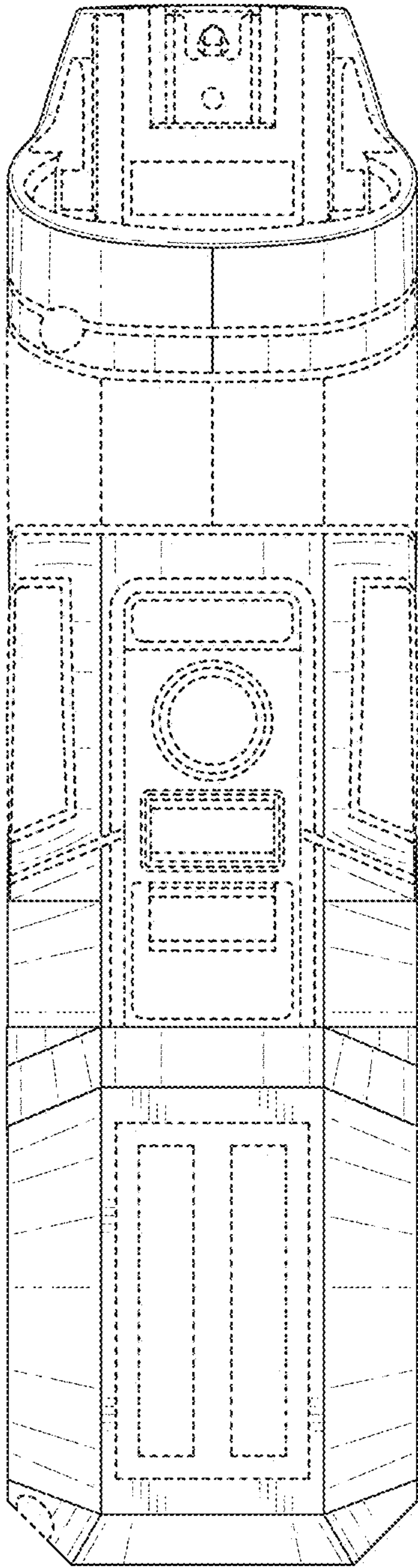


FIG. 6

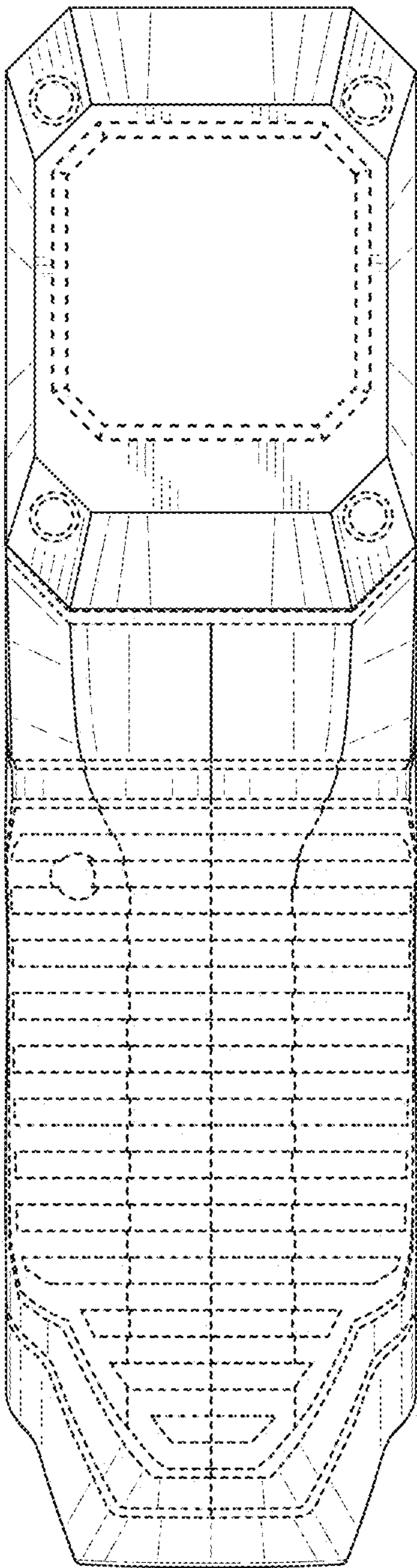


FIG. 7