



US00D833061S

(12) **United States Design Patent** (10) **Patent No.:** **US D833,061 S**
Antony et al. (45) **Date of Patent:** **** Nov. 6, 2018**

(54) **LIGHTING MODULE LOCKING ENDCAP**
 (71) Applicant: **Flex Ltd.**, Singapore (SG)
 (72) Inventors: **Ashish Antony**, Anna, TX (US); **Kevin Emr**, Dallas, TX (US); **Jordon Musser**, Dallas, TX (US)

(73) Assignee: **Flex Ltd.**, Singapore (SG)

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

(21) Appl. No.: **29/613,372**

(22) Filed: **Aug. 9, 2017**

(51) **LOC (11) Cl.** **26-05**

(52) **U.S. Cl.**
 USPC **D26/140**

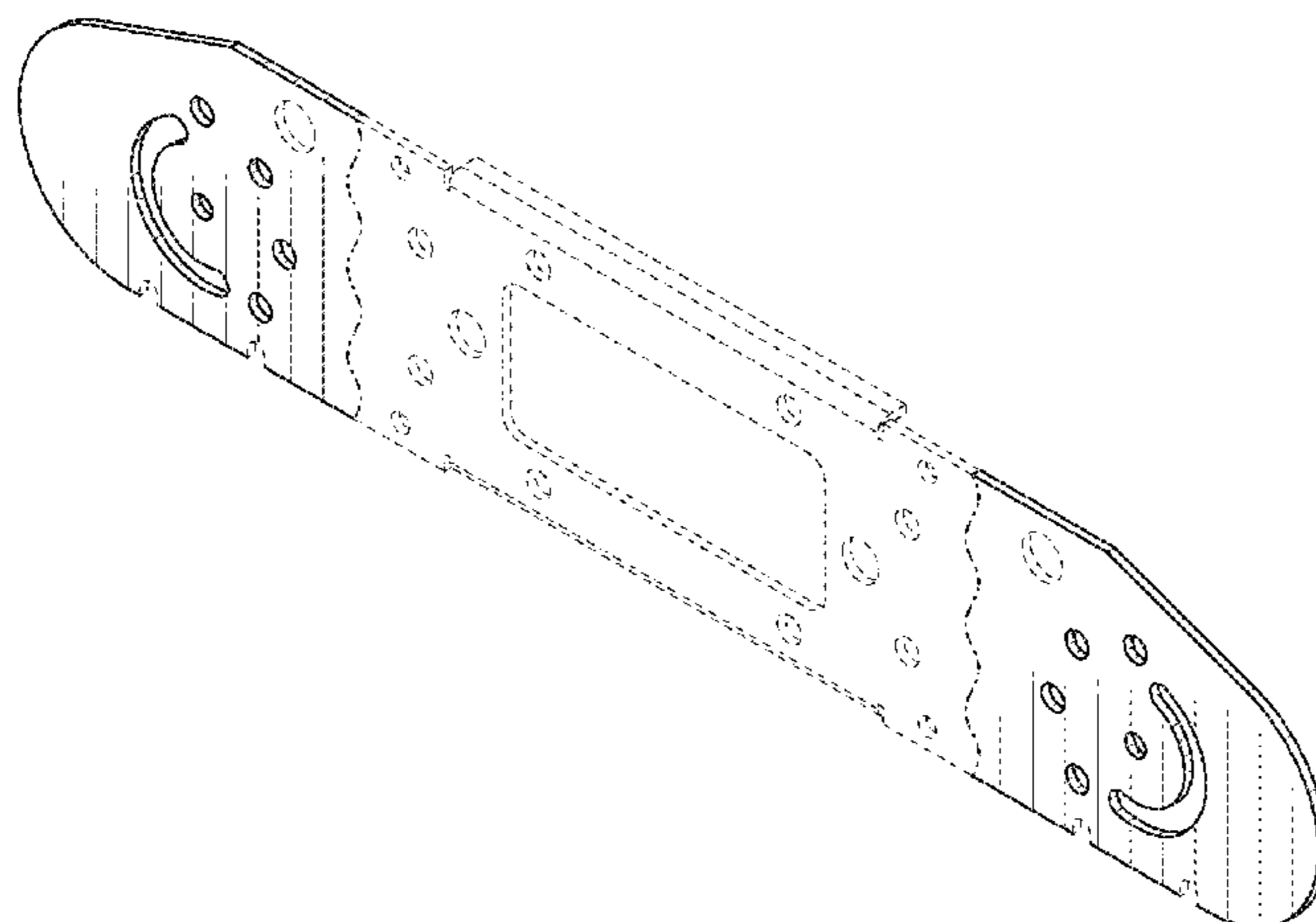
(58) **Field of Classification Search**
 USPC D7/213, 402-409; D13/102, 101, 184, D13/199; D26/155, 152, 154, 60, 74, 75, D26/76, 77, 78, 113, 118, 119, 120, 121, D26/122, 128; D8/349, 354, 363, 364, D8/366, 371, 373, 380, 381, 382
 CPC F21Y 2101/00; F21S 2/00; F21S 11/00; F21K 2/00; H01L 31/00; F21V 3/0436
 See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D120,548 S 5/1940 Guth
 D122,145 S 8/1940 MacCarthy
 D122,887 S 10/1940 Beals
 D123,067 S 10/1940 Rubinstein
 D123,887 S 12/1940 Koehler
 D127,398 S 5/1941 Jordan
 D128,961 S 8/1941 Hrabak
 D129,726 S 9/1941 Scribner
 D130,570 S 12/1941 Borkland
 2,312,617 A 3/1943 Beck
 D139,669 S 12/1944 Lippincott
 D142,126 S 8/1945 Sabatini
 D150,735 S 8/1948 Schwartz et al.
 D151,575 S 10/1948 Winkler et al.
 2,606,998 A 8/1952 Winkler et al.

D173,255 S 10/1954 Brooks et al.
 2,715,449 A 8/1955 Lemmerman et al.
 D188,436 S 7/1960 Budke et al.
 3,009,055 A 11/1961 Franzese
 3,209,142 A 9/1965 Michel et al.
 D208,491 S 9/1967 Brooks
 3,565,382 A * 2/1971 Passarelli, Jr. H02G 3/10
 174/58
 D255,851 S 7/1980 Crane
 D291,598 S 8/1987 Elkerbout
 4,726,781 A 2/1988 Bernhart et al.
 6,061,978 A 5/2000 Dinwoodie et al.
 6,076,943 A 6/2000 Lassovsky
 D432,000 S * 10/2000 Hays D8/354
 6,274,402 B1 8/2001 Verlinden et al.
 6,295,818 B1 10/2001 Ansley et al.
 6,313,395 B1 11/2001 Crane et al.
 6,333,457 B1 12/2001 Mulligan et al.
 6,337,283 B1 1/2002 Verlinden et al.
 6,387,726 B1 5/2002 Verlinden et al.
 6,423,568 B1 7/2002 Verlinden et al.
 6,495,750 B1 12/2002 Dinwoodie
 6,501,013 B1 12/2002 Dinwoodie
 D472,007 S 3/2003 Weitgasser
 6,536,326 B2 3/2003 Unger et al.
 6,570,084 B2 5/2003 Dinwoodie
 6,684,637 B2 2/2004 Beale
 6,722,357 B2 4/2004 Shingleton
 6,745,687 B1 6/2004 Kaminar
 D492,809 S 7/2004 Weitgasser
 6,809,251 B2 10/2004 Dinwoodie
 6,809,253 B2 10/2004 Dinwoodie
 6,883,290 B2 4/2005 Dinwoodie
 D510,315 S 10/2005 Shugar et al.
 D511,576 S 11/2005 Shingleton et al.
 D516,017 S 2/2006 Mascolo
 6,998,288 B1 2/2006 Smith et al.
 D519,444 S 4/2006 Mascolo
 D521,172 S 5/2006 Chen
 7,072,096 B2 7/2006 Holman et al.
 7,135,350 B1 11/2006 Smith et al.
 7,140,742 B2 11/2006 Pohlert et al.
 7,144,214 B2 12/2006 Kinpara et al.
 7,155,870 B2 1/2007 Almy
 7,172,184 B2 2/2007 Pavani et al.
 7,178,295 B2 2/2007 Dinwoodie
 7,178,941 B2 2/2007 Roberge et al.
 D538,630 S * 3/2007 Sergi D8/354
 7,297,865 B2 11/2007 Terao et al.
 7,297,866 B2 11/2007 Aschenbrenner
 D562,225 S 2/2008 Almy et al.
 7,328,534 B2 2/2008 Dinwoodie
 RE40,158 E 3/2008 Weitgasser



US D833,061 S

D564,958 S	3/2008	Almy et al.	8,222,516 B2	7/2012	Cousins
7,339,110 B1	3/2008	Mulligan et al.	8,227,942 B2	7/2012	Marroquin et al.
D565,505 S	4/2008	Shugar et al.	8,230,850 B2	7/2012	Barsun et al.
7,388,147 B2	6/2008	Mulligan et al.	8,234,824 B2	8/2012	Botkin et al.
7,390,961 B2	6/2008	Aschenbrenner et al.	8,242,354 B2	8/2012	Smith
D578,521 S *	10/2008	Sergi D14/238	D666,974 S	9/2012	Marroquin et al.
7,435,134 B2	10/2008	Lenox	8,258,395 B2	9/2012	Wares
7,438,432 B2	10/2008	Yaphe et al.	8,263,899 B2	9/2012	Harley et al.
7,455,787 B2	11/2008	Rose et al.	8,276,329 B2	10/2012	Lenox
7,468,485 B1	12/2008	Swanson	8,279,642 B2	10/2012	Chapman et al.
D586,737 S	2/2009	Shugar et al.	8,279,649 B2	10/2012	Esrasm et al.
D592,785 S	5/2009	Bisberg et al.	8,284,574 B2	10/2012	Chapman et al.
7,530,830 B1	5/2009	Lenox	8,291,654 B2	10/2012	Botkin et al.
7,554,030 B2	6/2009	Shingleton	8,294,022 B2	10/2012	Lenox
7,554,031 B2	6/2009	Swanson et al.	D670,996 S *	11/2012	Rogers D8/349
7,557,292 B2	7/2009	Shingleton et al.	8,304,644 B2	11/2012	Wares et al.
7,622,912 B1	11/2009	Adams et al.	8,308,324 B2	11/2012	Van Horn et al.
7,633,006 B1	12/2009	Swanson	8,317,987 B2	11/2012	Abas et al.
7,648,257 B2	1/2010	Villard	D673,320 S	12/2012	Guercio et al.
7,663,342 B2	2/2010	Kimball et al.	8,322,300 B2	12/2012	Pavani et al.
7,670,638 B2	3/2010	Luan et al.	8,324,015 B2	12/2012	Harley et al.
7,681,090 B2	3/2010	Kimball et al.	8,325,499 B2	12/2012	Krein et al.
7,705,237 B2	4/2010	Swanson	8,334,161 B2	12/2012	Dennis et al.
7,708,578 B1	5/2010	Lenox	8,334,489 B2	12/2012	Beardsworth et al.
7,718,888 B2	5/2010	Cousins	8,336,539 B2	12/2012	Linderman et al.
7,737,357 B2	6/2010	Cousins	8,350,411 B2	1/2013	Kimball et al.
7,755,916 B2	7/2010	Krein et al.	8,350,417 B1	1/2013	Dooley et al.
7,774,998 B2	8/2010	Aschenbrenner	8,352,220 B2	1/2013	Wayne et al.
7,780,472 B2	8/2010	Lenox	8,360,601 B2	1/2013	Muschaweck et al.
7,786,375 B2	8/2010	Swanson et al.	8,377,738 B2	2/2013	Dennis et al.
7,804,022 B2	9/2010	De Ceuster	8,378,706 B2	2/2013	Kinyon et al.
7,807,918 B2	10/2010	Shingleton et al.	8,393,707 B2	3/2013	Cudzinovic et al.
7,812,250 B2	10/2010	Smith	8,399,287 B1	3/2013	Mulligan et al.
7,820,475 B2	10/2010	De Ceuster et al.	8,402,703 B2	3/2013	Brandt et al.
7,824,070 B2	11/2010	Higley et al.	8,409,902 B1	4/2013	Harley et al.
7,838,062 B2	11/2010	Cousins et al.	8,409,911 B2	4/2013	Cousins
7,851,698 B2	12/2010	De Ceuster et al.	8,409,912 B2	4/2013	de Ceuster et al.
D632,418 S	2/2011	Bisberg et al.	8,423,312 B2	4/2013	Krein
7,883,343 B1	2/2011	Mulligan et al.	8,424,255 B2	4/2013	Lenox et al.
7,888,587 B2	2/2011	Shingleton et al.	8,426,974 B2	4/2013	Linderman et al.
7,888,588 B2	2/2011	Shingleton	D681,574 S *	5/2013	Buxton D13/199
7,893,409 B1	2/2011	Cousins	D682,079 S *	5/2013	Chou D8/380
7,897,867 B1	3/2011	Mulligan et al.	8,448,391 B2	5/2013	Botkin et al.
7,945,413 B2	5/2011	Krein	8,448,652 B2	5/2013	Almy et al.
7,956,281 B2	6/2011	O'Brien et al.	8,449,238 B2	5/2013	Mulligan et al.
7,958,886 B2	6/2011	Barsun et al.	8,450,134 B2	5/2013	De Ceuster et al.
7,982,434 B2	7/2011	Kimball et al.	8,450,985 B2	5/2013	Gray et al.
7,994,657 B2	8/2011	Kimball et al.	8,451,638 B2	5/2013	Chapman et al.
8,004,865 B2	8/2011	Krein et al.	8,455,806 B2	6/2013	Judkins
8,008,575 B2	8/2011	De Ceuster et al.	8,456,876 B2	6/2013	Chapman
D644,609 S	9/2011	Marroquin	8,460,963 B2	6/2013	Smith
D644,610 S	9/2011	Marroquin	8,461,813 B2	6/2013	Chapman
8,029,683 B2	10/2011	Rose et al.	8,462,518 B2	6/2013	Marroquin et al.
8,061,091 B2	11/2011	Botkin et al.	8,482,947 B2	7/2013	Chapman et al.
8,062,693 B2	11/2011	Cousins	8,486,746 B2	7/2013	Rim et al.
8,065,844 B2	11/2011	Botkin et al.	8,492,253 B2	7/2013	Manning
8,080,819 B2	12/2011	Mueller et al.	8,503,200 B2	8/2013	Chapman et al.
8,101,849 B2	1/2012	Almy et al.	8,508,964 B2	8/2013	Gray et al.
8,108,081 B2	1/2012	Lenox	8,516,754 B2	8/2013	Botkin et al.
8,120,933 B2	2/2012	Chapman et al.	8,519,729 B2	8/2013	Capulong et al.
8,134,217 B2	3/2012	Rim et al.	D690,453 S	9/2013	Guercio et al.
8,148,627 B2	4/2012	Rose et al.	8,528,366 B2	9/2013	Berrada Sounni et al.
8,158,877 B2	4/2012	Klein et al.	8,530,990 B2	9/2013	Linderman et al.
8,163,638 B2	4/2012	De Ceuster et al.	8,534,007 B2	9/2013	Almy et al.
8,172,989 B2	5/2012	Pass	RE44,515 E *	10/2013	Ciungan D14/452
8,174,856 B2	5/2012	Chapman	8,546,681 B2	10/2013	Wares et al.
8,188,363 B2	5/2012	Xavier et al.	8,548,637 B2	10/2013	Lenox
8,192,048 B2	6/2012	Kristoffersen et al.	8,552,288 B2	10/2013	Xavier
8,192,056 B2	6/2012	Villard	8,557,093 B2	10/2013	Cousins et al.
8,193,788 B2	6/2012	Chapman	8,558,101 B2	10/2013	Mascolo et al.
8,198,528 B2	6/2012	Luan et al.	8,563,849 B2	10/2013	Johnston et al.
8,206,009 B2	6/2012	Tickner et al.	8,567,134 B1	10/2013	Grushkowitz et al.
8,207,444 B2	6/2012	Cousins	8,572,836 B2	11/2013	Lenox
8,207,637 B2	6/2012	Marroquin et al.	8,580,599 B2	11/2013	Rim et al.
8,211,731 B2	7/2012	Harley et al.	8,584,406 B2	11/2013	Wexler et al.
8,215,071 B2	7/2012	Lenox	8,584,667 B2	11/2013	Linderman et al.
8,220,210 B2	7/2012	Botkin et al.	8,586,397 B2	11/2013	Wu et al.
8,221,600 B2	7/2012	Ganti	8,586,403 B2	11/2013	Harley et al.
8,221,601 B2	7/2012	Chen et al.	8,597,970 B2	12/2013	Cousins et al.

US D833,061 S

8,599,587 B2	12/2013	Chapman et al.	8,962,082 B2	2/2015	Pavani et al.
8,604,404 B1	12/2013	Linderman	8,962,373 B2	2/2015	Cousins et al.
8,609,977 B2	12/2013	Jones et al.	8,963,185 B2	2/2015	Cousins
8,611,107 B2	12/2013	Chapman et al.	8,963,375 B2	2/2015	DeGraaff
8,615,941 B2	12/2013	Botkin et al.	8,964,401 B2	2/2015	Escamilla et al.
8,624,561 B1	1/2014	Slavin	8,975,175 B1	3/2015	Pass
8,624,621 B2	1/2014	Capulong et al.	8,975,717 B2	3/2015	Smith
8,629,383 B2	1/2014	Beardsworth et al.	8,988,096 B1	3/2015	Naiknaware
8,630,077 B2	1/2014	Johnston et al.	8,991,682 B2	3/2015	Linderman et al.
8,634,216 B2	1/2014	Chapman	8,992,803 B2	3/2015	Loscutoff et al.
8,636,198 B1	1/2014	Linderman et al.	9,010,041 B2	4/2015	Danning
8,647,911 B2	2/2014	Smith	9,018,033 B2	4/2015	Wu et al.
8,650,813 B2	2/2014	Botkin et al.	9,018,516 B2	4/2015	Shepherd et al.
8,656,660 B2	2/2014	Danning	9,020,653 B2	4/2015	Lenox
8,658,454 B2	2/2014	Pass et al.	D729,041 S *	5/2015	Smith D8/349
D700,991 S	3/2014	Johnson et al.	9,029,689 B2	5/2015	Phu et al.
8,661,753 B2	3/2014	Lenox	9,035,167 B2	5/2015	Swanson et al.
8,662,008 B2	3/2014	Abas et al.	9,035,168 B2	5/2015	Barton
8,664,519 B2	3/2014	De Ceuster et al.	9,035,172 B2	5/2015	Kim et al.
8,679,889 B2	3/2014	Cousins et al.	9,035,633 B1	5/2015	Slavin et al.
D702,799 S *	4/2014	Coviello D22/108	9,038,421 B2	5/2015	Berrada Sounni et al.
D703,858 S	4/2014	Miller	9,048,740 B2	6/2015	Gray et al.
8,683,761 B2	4/2014	Danning	9,054,255 B2	6/2015	Swanson et al.
8,692,111 B2	4/2014	Kim et al.	9,059,604 B2	6/2015	Johnson
8,709,851 B2	4/2014	Dennis et al.	9,062,854 B2	6/2015	Livesay et al.
8,712,745 B2	4/2014	Wayne et al.	9,065,354 B2	6/2015	Chapman et al.
8,716,596 B1	5/2014	Swanson	9,070,804 B2	6/2015	Cousins
8,737,093 B1	5/2014	Baker et al.	9,077,202 B1	7/2015	Baker
8,737,100 B2	5/2014	Chapman et al.	9,082,925 B2	7/2015	Solomon et al.
8,744,791 B1	6/2014	Kraft et al.	9,083,121 B2	7/2015	DeGraaff et al.
8,748,736 B2	6/2014	Luan et al.	9,087,939 B2	7/2015	Harley et al.
8,754,627 B1	6/2014	Le	9,093,919 B2	7/2015	Chapman et al.
8,757,567 B2	6/2014	Ciasulli et al.	9,101,082 B1	8/2015	Dorenkamp et al.
8,763,316 B2	7/2014	Concho et al.	9,112,066 B2	8/2015	Dennis et al.
8,767,421 B2	7/2014	Chapman	9,112,097 B2	8/2015	Tu
8,772,894 B2	7/2014	Smith	9,116,202 B2	8/2015	Capulong et al.
8,774,007 B2	7/2014	Hussain et al.	9,136,710 B1	9/2015	Baker et al.
8,776,781 B2	7/2014	Meydbray	9,142,696 B2	9/2015	Loscutoff et al.
8,778,787 B2	7/2014	Manning	9,147,795 B2	9/2015	Li et al.
8,785,233 B2	7/2014	Loscutoff et al.	9,153,712 B2	10/2015	Zhu
8,785,236 B2	7/2014	Harley et al.	9,159,521 B1	10/2015	Chen et al.
8,785,830 B2	7/2014	Judkins	9,160,408 B2	10/2015	Krohne et al.
8,786,095 B2	7/2014	Linderman et al.	9,166,079 B2	10/2015	Manning
8,790,957 B2	7/2014	Li et al.	9,178,104 B2	11/2015	Moors et al.
8,793,942 B2	8/2014	Almy et al.	9,184,324 B2	11/2015	Wares et al.
8,796,061 B2	8/2014	Bunea	9,184,327 B2	11/2015	Rose et al.
8,796,535 B2	8/2014	Linderman	9,185,759 B2	11/2015	Nieberlein et al.
8,796,884 B2	8/2014	Naiknaware et al.	9,186,741 B2	11/2015	Kumaria et al.
8,802,486 B2	8/2014	Li et al.	9,190,839 B2	11/2015	Johnston et al.
8,809,671 B2	8/2014	Linderman et al.	9,193,014 B2	11/2015	Danning
8,815,631 B2	8/2014	Cousins	9,196,758 B2	11/2015	Rim et al.
8,817,510 B2	8/2014	Esrasm et al.	D744,684 S	12/2015	Guercio et al.
8,818,924 B2	8/2014	Wayne et al.	D744,690 S	12/2015	Boyer et al.
8,822,257 B2	9/2014	Rim et al.	9,202,960 B2	12/2015	Luan et al.
8,822,262 B2	9/2014	Loscutoff et al.	9,212,808 B2	12/2015	Higley et al.
8,822,812 B2	9/2014	Wares	9,217,206 B2	12/2015	Behnke et al.
8,823,356 B2	9/2014	Chapman	9,219,173 B2	12/2015	Swanson et al.
8,824,178 B1	9/2014	Baker et al.	9,222,193 B2	12/2015	Abas et al.
8,839,784 B2	9/2014	Wares et al.	9,224,902 B2	12/2015	Swanson
8,842,454 B2	9/2014	Johnson et al.	9,225,256 B2	12/2015	Chapman et al.
8,859,933 B2	10/2014	Harley et al.	9,225,285 B2	12/2015	Peurach et al.
8,860,162 B2	10/2014	Linderman et al.	9,231,129 B2	1/2016	Harley et al.
8,860,242 B1	10/2014	Pruett et al.	9,231,145 B2	1/2016	Smith
8,877,617 B2	11/2014	Wong et al.	9,239,153 B2	1/2016	Goodman et al.
8,878,053 B2	11/2014	Cousins	9,240,682 B2	1/2016	Sivakumar et al.
8,881,415 B2	11/2014	Barton	9,243,818 B2	1/2016	Shugar et al.
8,883,247 B2	11/2014	Cousins et al.	9,246,037 B2	1/2016	Linderman
8,893,713 B2	11/2014	Wares et al.	9,246,046 B1	1/2016	Harrington et al.
8,901,010 B2	12/2014	Westerberg et al.	9,249,044 B2	2/2016	Judkins et al.
8,904,717 B2	12/2014	Lenox	9,249,523 B2	2/2016	Rim
8,912,038 B2	12/2014	Li et al.	9,252,314 B2	2/2016	Wares et al.
8,922,062 B2	12/2014	Johnson et al.	9,252,319 B2	2/2016	Loscutoff et al.
8,922,185 B2	12/2014	Ehlmann et al.	9,253,935 B2	2/2016	Morris et al.
8,929,094 B2	1/2015	Marroquin et al.	9,257,575 B1	2/2016	Pass et al.
8,943,765 B2	2/2015	Danning et al.	9,257,847 B2	2/2016	Johnson et al.
8,945,978 B2	2/2015	Behnke	9,263,183 B2	2/2016	Chapman et al.
8,946,541 B2	2/2015	Wares et al.	9,263,601 B2	2/2016	Wu et al.
8,955,267 B2	2/2015	Wexler et al.	9,263,602 B2	2/2016	Harley et al.
8,956,018 B2	2/2015	Deshpande et al.	9,263,622 B2	2/2016	Pass et al.

US D833,061 S

9,263,625	B2	2/2016	Smith et al.	2015/0000724	A1	1/2015	Pass et al.
9,263,895	B2	2/2016	Naiknaware et al.	2015/0004737	A1	1/2015	Harley
9,266,468	B2	2/2016	Mizushiro et al.	2015/0020867	A1	1/2015	Linderman et al.
9,267,649	B2	2/2016	Janik et al.	2015/0040944	A1	2/2015	Dinwoodie et al.
D751,976	S	3/2016	Mackler et al.	2015/0047690	A1	2/2015	Shen et al.
9,273,845	B2	3/2016	Eom et al.	2015/0053248	A1	2/2015	Rim et al.
9,276,635	B2	3/2016	Rothblum et al.	2015/0083215	A1	3/2015	Cousins
9,279,457	B2	3/2016	Grushkowitz	2015/0090328	A1	4/2015	Smith
9,279,569	B2	3/2016	Lamonato et al.	2015/0090329	A1	4/2015	Pass
9,281,419	B2	3/2016	Klein et al.	2015/0108692	A1	4/2015	Harley et al.
9,281,429	B2	3/2016	Xavier et al.	2015/0117067	A1	4/2015	Naiknaware et al.
9,281,431	B2	3/2016	Linderman	2015/0122305	A1	5/2015	Marroquin et al.
9,285,081	B2	3/2016	Douglas et al.	2015/0128437	A1	5/2015	Barton
9,293,624	B2	3/2016	Cudzinovic et al.	2015/0144197	A1	5/2015	Cousins et al.
9,300,224	B2	3/2016	Johnson et al.	2015/0146315	A1	5/2015	Wares et al.
D754,064	S	4/2016	Mackler et al.	2015/0155819	A1	6/2015	Wexler et al.
9,303,285	B2	4/2016	Piazza et al.	2015/0163074	A1	6/2015	Pruett et al.
9,306,085	B2	4/2016	Westerberg et al.	2015/0180238	A1	6/2015	DeGraaff
9,312,042	B2	4/2016	Sewell et al.	2015/0180404	A1	6/2015	Braunstein et al.
9,312,406	B2	4/2016	Loscutoff et al.	2015/0194539	A1	7/2015	Shepherd et al.
9,312,425	B2	4/2016	Kim et al.	2015/0194927	A1	7/2015	Naiknaware
9,316,417	B2	4/2016	Danning	2015/0206988	A1	7/2015	Loscutoff et al.
9,322,437	B2	4/2016	Agullo	2015/0212535	A1	7/2015	Ehlmann et al.
9,322,963	B2	4/2016	Linderman et al.	2015/0214744	A1	7/2015	Lenox
9,326,339	B2	4/2016	Nieberlein et al.	2015/0222225	A1	8/2015	Danning
9,328,427	B2	5/2016	Behnke	2015/0229221	A1	8/2015	Gray et al.
9,329,322	B2	5/2016	Yamada et al.	2015/0249405	A1	9/2015	Chapman et al.
9,337,369	B2	5/2016	Smith	2015/0249423	A1	9/2015	Braunstein et al.
9,342,088	B2	5/2016	Batten et al.	2015/0263200	A1	9/2015	Dennis et al.
9,347,619	B2	5/2016	Schupple et al.	2015/0270803	A1	9/2015	Barton
9,353,970	B2	5/2016	Linderman et al.	2015/0280038	A1	10/2015	Sethi et al.
9,362,427	B2	6/2016	Sewell et al.	2015/0282365	A1	10/2015	Escamilla et al.
D815,031	S *	4/2018	Yang D13/102	2015/0287875	A1	10/2015	Phu et al.
2002/0181229	A1	12/2002	Wei	2015/0288328	A1	10/2015	Swanson et al.
2011/0312119	A1	12/2011	Rose et al.	2015/0311357	A1	10/2015	Harley et al.
2012/0134189	A1	5/2012	Krein	2015/0325710	A1	11/2015	Tu
2012/0180845	A1	7/2012	Cole et al.	2015/0326168	A1	11/2015	Johnson
2012/0192925	A1	8/2012	Grushkowitz et al.	2015/0326178	A1	11/2015	Capulong et al.
2012/0216852	A1	8/2012	Almy et al.	2015/0333617	A1	11/2015	Chapman et al.
2013/0000694	A1	1/2013	Bunea et al.	2015/0340868	A1	11/2015	Chapman
2013/0106196	A1	5/2013	Johnson et al.	2015/0342084	A1	11/2015	Dorenkamp et al.
2013/0239947	A1	9/2013	Almy et al.	2015/0349158	A1	12/2015	Manning
2013/0255749	A1	10/2013	Kinyon et al.	2015/0349706	A1	12/2015	Grossman et al.
2013/0305787	A1	11/2013	Berrada Sounni et al.	2015/0349709	A1	12/2015	Ponec et al.
2013/0340379	A1	12/2013	Danning	2015/0364625	A1	12/2015	Solomon et al.
2013/0340380	A1	12/2013	Danning	2015/0372638	A1	12/2015	DeGraaff et al.
2014/0000187	A1	1/2014	Botkin et al.	2015/0377518	A1	12/2015	Maxey et al.
2014/0000695	A1	1/2014	Stone	2015/0380578	A1	12/2015	Zhu
2014/0000705	A1	1/2014	Sounni et al.	2016/0011246	A1	1/2016	Fischer et al.
2014/0014499	A1	1/2014	Cousins et al.	2016/0020827	A1	1/2016	Krohne et al.
2014/0034111	A1	2/2014	Bunea et al.	2016/0027953	A1	1/2016	Moors et al.
2014/0034122	A1	2/2014	Cousins	2016/0028345	A1	1/2016	Wares et al.
2014/0034455	A1	2/2014	Mulligan et al.	2016/0035908	A1	2/2016	Rose et al.
2014/0036563	A1	2/2014	Chapman et al.	2016/0036380	A1	2/2016	Johnston et al.
2014/0048119	A1	2/2014	Johnston et al.	2016/0043267	A1	2/2016	Rim et al.
2014/0090637	A1	4/2014	Grushkowitz	2016/0043684	A1	2/2016	Harif
2014/0090638	A1	4/2014	Grushkowitz	2016/0064576	A1	3/2016	Luan et al.
2014/0090701	A1	4/2014	Rim et al.	2016/0065119	A1	3/2016	Danning
2014/0102505	A1	4/2014	Lenox	2016/0071991	A1	3/2016	Smith
2014/0102512	A1	4/2014	Jones et al.	2016/0071996	A1	3/2016	Swanson et al.
2014/0116495	A1	5/2014	Kim et al.	2016/0071999	A1	3/2016	Loscutoff et al.
2014/0133197	A1	5/2014	Chapman	2016/0079450	A1	3/2016	Harley et al.
2014/0150846	A1	6/2014	Beardsworth et al.	2016/0079911	A1	3/2016	Rose et al.
2014/0174905	A1	6/2014	Landry	2016/0087425	A1	3/2016	Sivakumar et al.
2014/0182661	A1	7/2014	Kinyon	2016/0090662	A1	3/2016	Capulong et al.
2014/0190561	A1	7/2014	De Ceuster et al.	2016/0105027	A1	4/2016	Johnson et al.
2014/0202492	A1	7/2014	Grossman et al.	2016/0108541	A1	4/2016	Abas et al.
2014/0238470	A1	8/2014	Ciasulli et al.	2016/0111583	A1	4/2016	Harrington et al.
2014/0261626	A1	9/2014	Ripoll Agullo	2016/0112003	A1	4/2016	Morris et al.
2014/0268908	A1	9/2014	Zhou et al.	2016/0118516	A1	4/2016	Harley et al.
2014/0290715	A1	10/2014	Meydbray	2016/0133759	A1	5/2016	Pass et al.
2014/0291852	A1	10/2014	Linderman et al.	2016/0133767	A1	5/2016	Smith et al.
2014/0305501	A1	10/2014	Li et al.	2016/0134233	A1	5/2016	Chapman et al.
2014/0306092	A1	10/2014	Judkins	2016/0142100	A1	5/2016	Rothblum et al.
2014/0311054	A1	10/2014	Concho et al.	2016/0156309	A1	6/2016	Almogly et al.
2014/0322855	A1	10/2014	Bunea	2016/0164300	A1	6/2016	Johnson et al.
2014/0345688	A1	11/2014	Cousins	2016/0164427	A1	6/2016	Chapman et al.
2014/0352761	A1	12/2014	Linderman et al.				
2014/0373910	A1	12/2014	Luan et al.				

OTHER PUBLICATIONS

Flex Essentials Series Sell Specification Sheets, Published Jun. 2016 (28 pages).
Flex Lighting Solutions Specification Sheets, Essentials Series, Published May 2017 (9 pages).

* cited by examiner

Primary Examiner — Mark A Goodwin
Assistant Examiner — Benjamin M Weeks
(74) *Attorney, Agent, or Firm* — Carter, DeLuca, Farrell & Schmidt, LLP

(57) **CLAIM**

The ornamental design for a lighting module locking endcap, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of one embodiment of a lighting module locking endcap in accordance with the present design;
FIG. 2 is a front view of the lighting module locking endcap of FIG. 1;
FIG. 3 is a rear view of the lighting module locking endcap of FIG. 1;
FIG. 4 is a left, side view of the lighting module locking endcap of FIG. 1;
FIG. 5 is a right, side view of the lighting module locking endcap of FIG. 1;
FIG. 6 is a top view of the lighting module locking endcap of FIG. 1;

FIG. 7 is a bottom view of the lighting module locking endcap of FIG. 1; and
FIGS. 8-11 are progressive front views of the lighting module locking endcap of FIG. 1, illustrating a pair of rotatable lighting assemblies (shown in broken lines) attached to the lighting module locking endcap of FIG. 1 on opposed sides thereof and disposed in various positions;
FIG. 12 is a perspective view of another embodiment of a lighting module locking endcap in accordance with the present design;
FIG. 13 is a front view of the lighting module locking endcap of FIG. 12;
FIG. 14 is a rear view of the lighting module locking endcap of FIG. 12;
FIG. 15 is a left, side view of the lighting module locking endcap of FIG. 12;
FIG. 16 is a right, side view of the lighting module locking endcap of FIG. 12;
FIG. 17 is a top view of the lighting module locking endcap of FIG. 12;
FIG. 18 is a bottom view of the lighting module locking endcap of FIG. 12; and,
FIGS. 19-22 are progressive front views of the lighting module locking endcap of FIG. 12, illustrating a pair of rotatable lighting assemblies (shown in broken lines) attached to the lighting module locking endcap of FIG. 12 on opposed sides thereof and disposed in various positions. The broken lines provided in the drawings form no part of the claimed design.

1 Claim, 7 Drawing Sheets

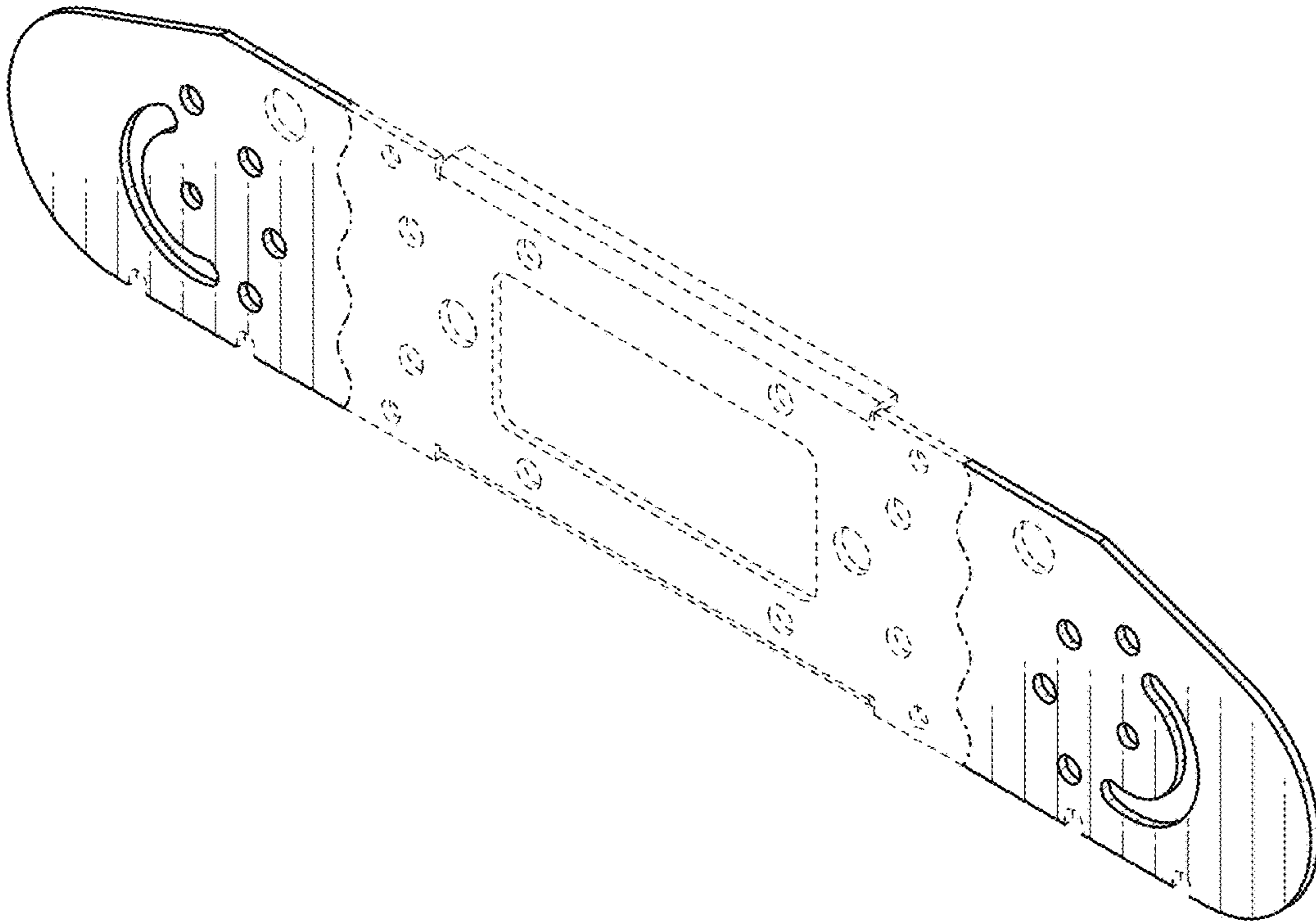


FIG. 1

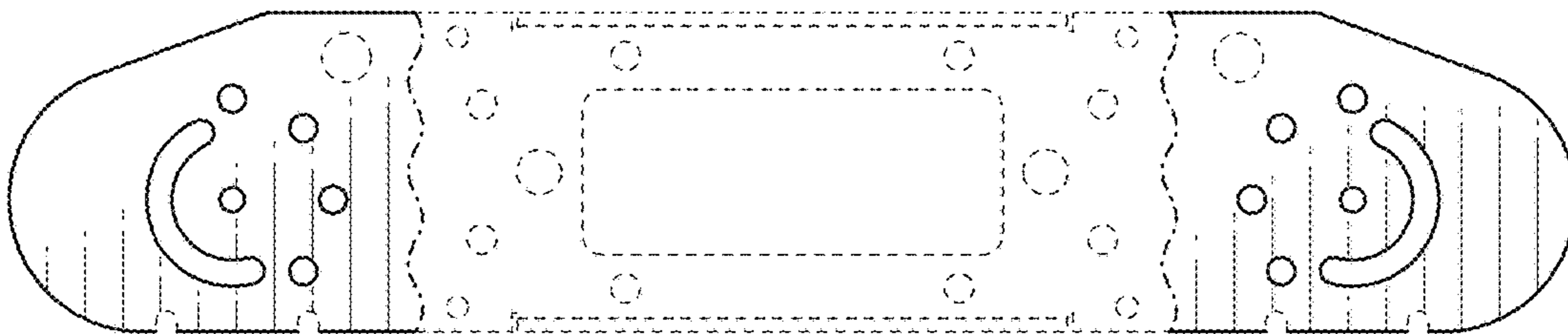


FIG. 2

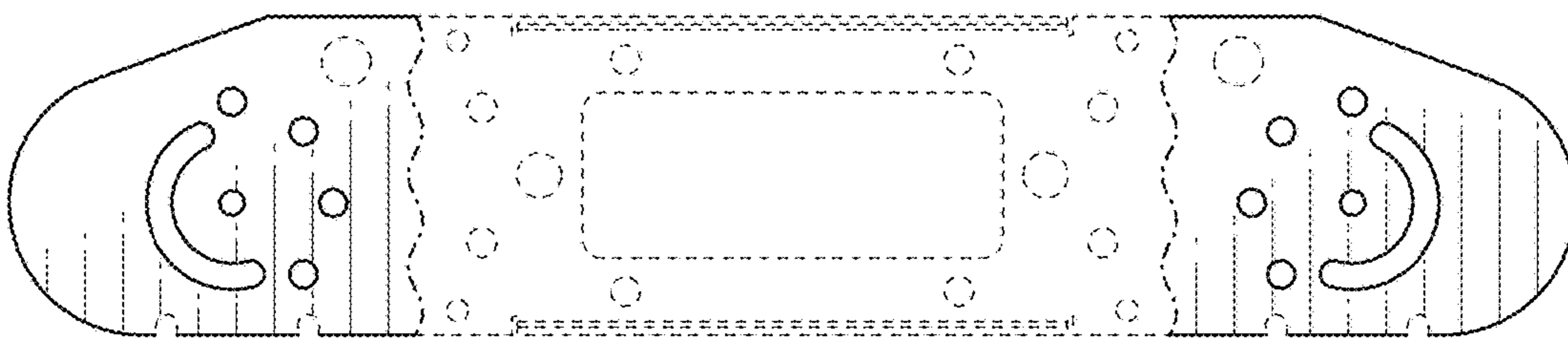


FIG. 3

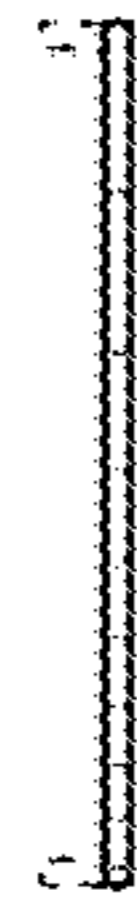


FIG. 4



FIG. 5

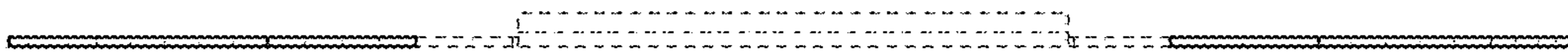


FIG. 6

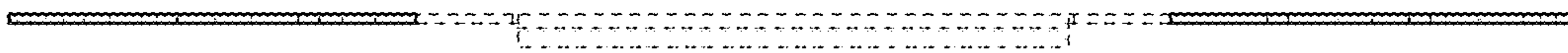


FIG. 7

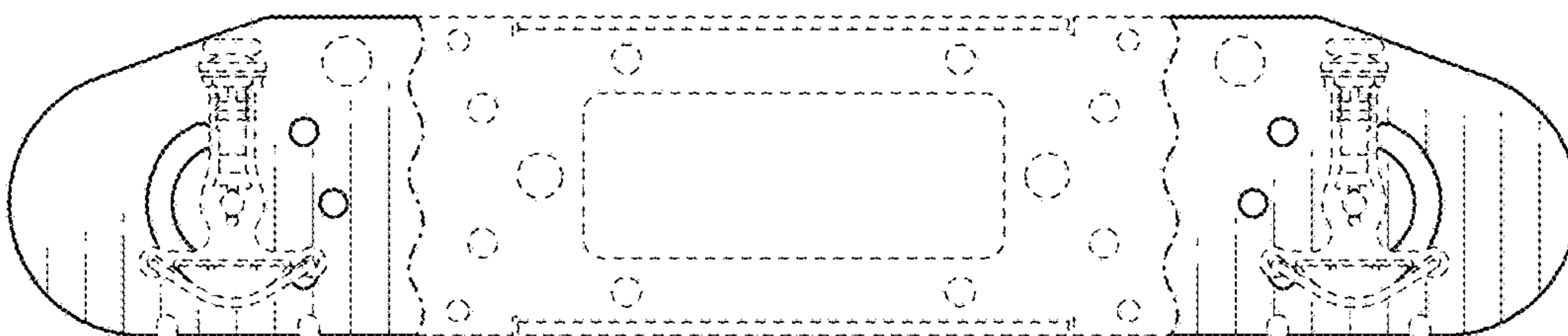


FIG. 8

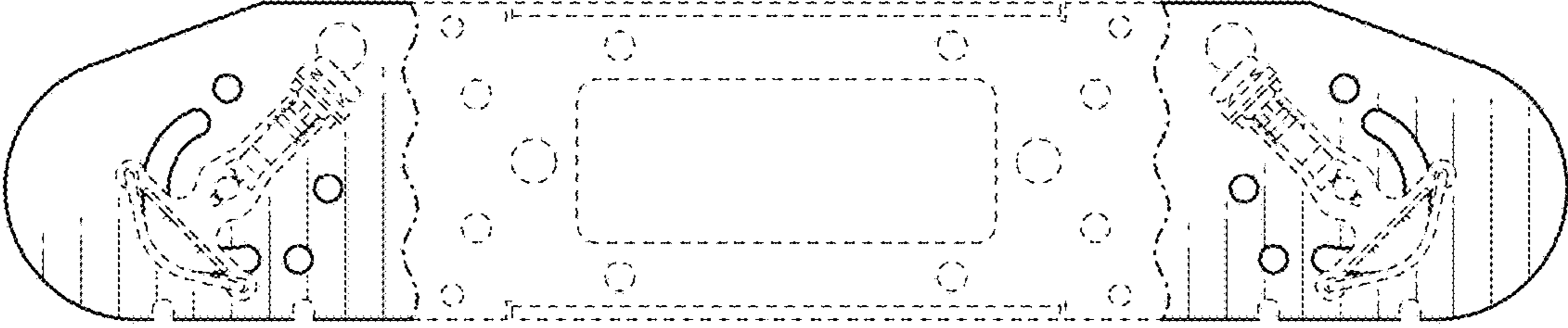


FIG. 9

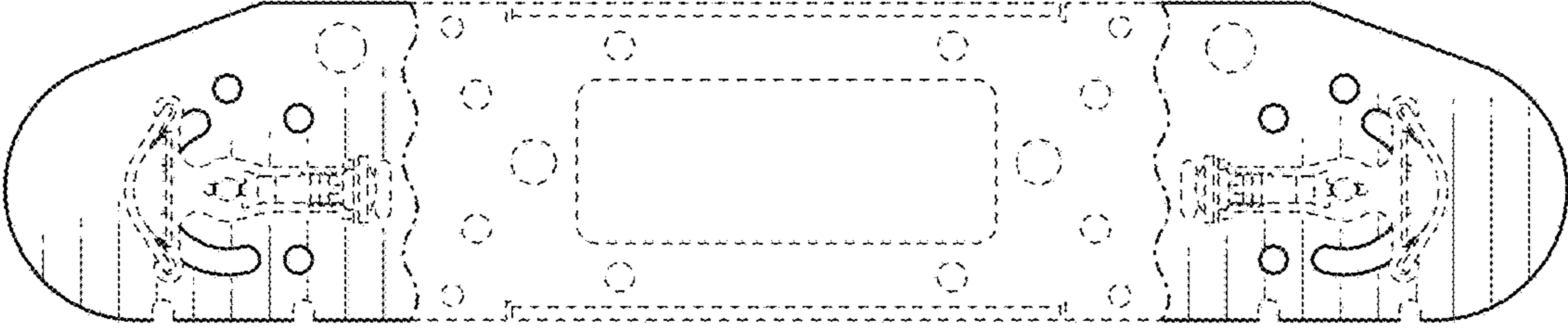


FIG. 10

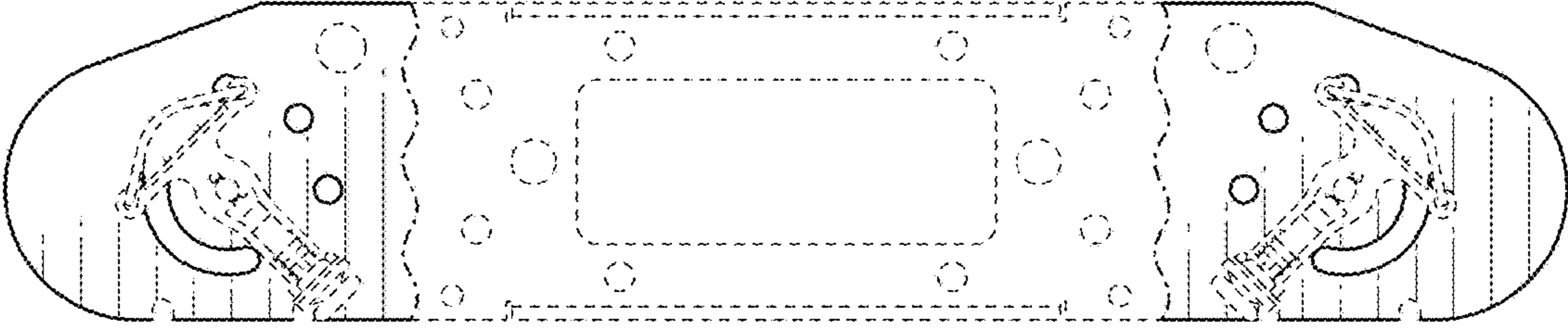


FIG. 11

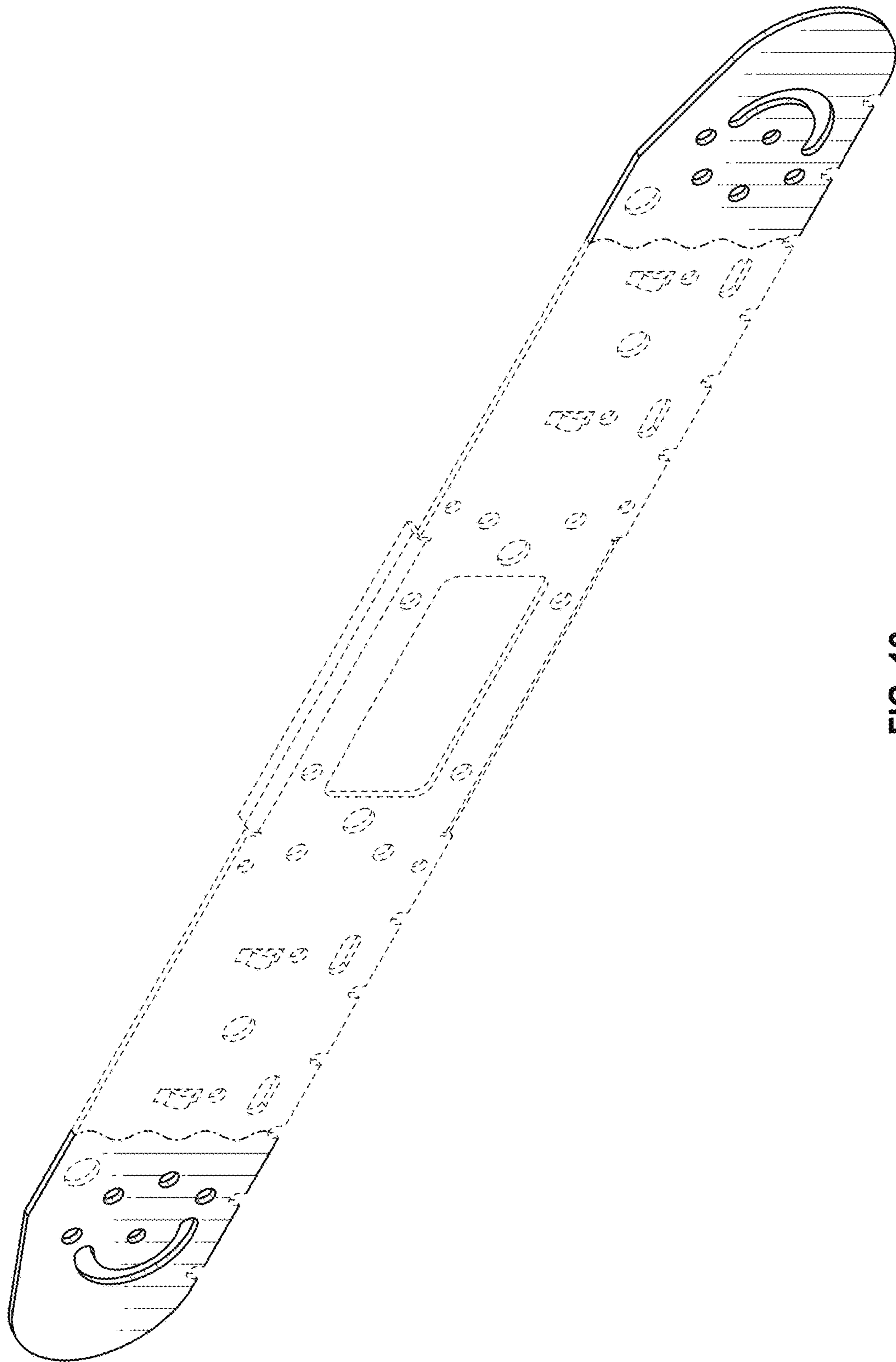


FIG. 12

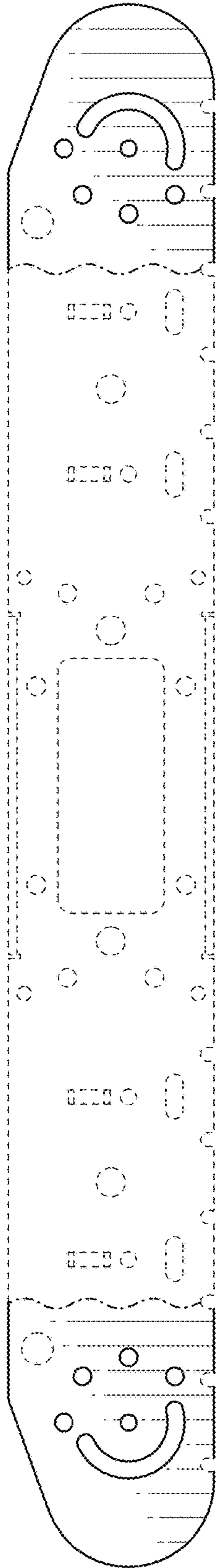


FIG. 13

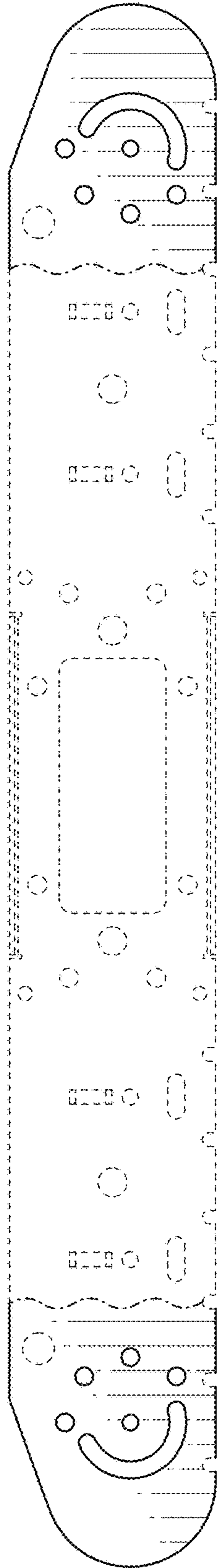


FIG. 14

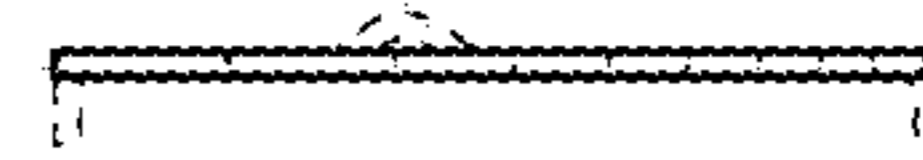


FIG. 15

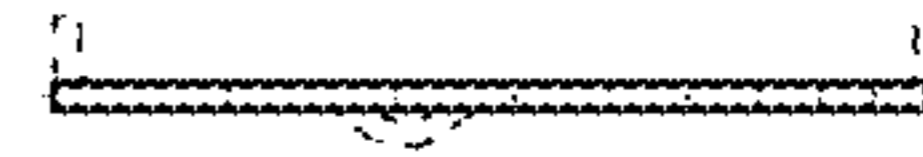


FIG. 16

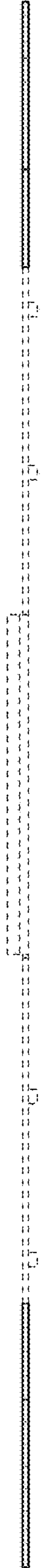


FIG. 17

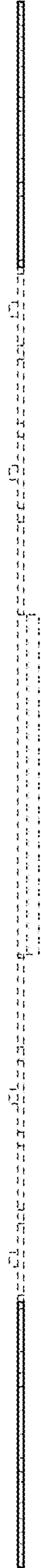


FIG. 18

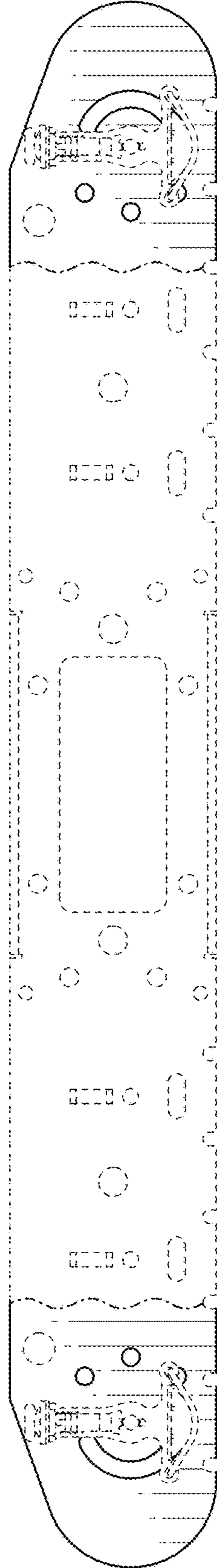


FIG. 19

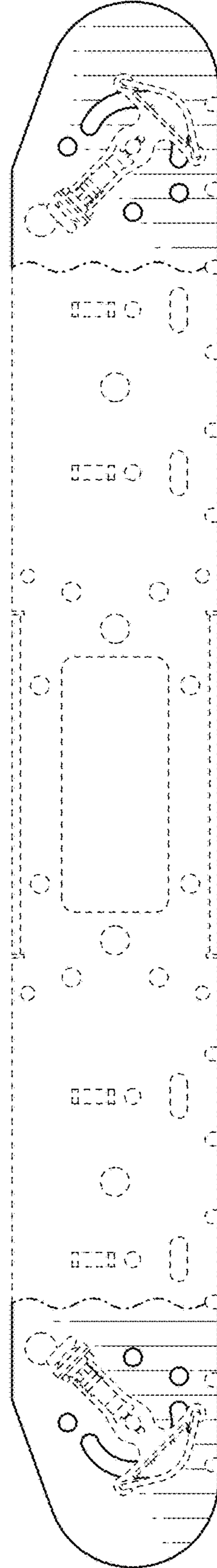


FIG. 20

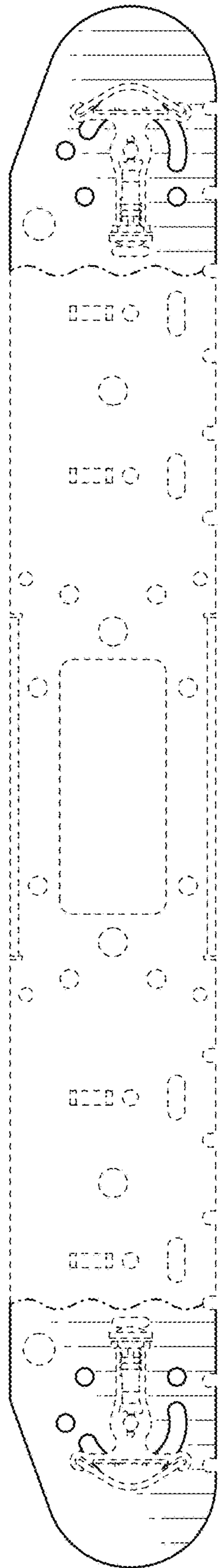


FIG. 21

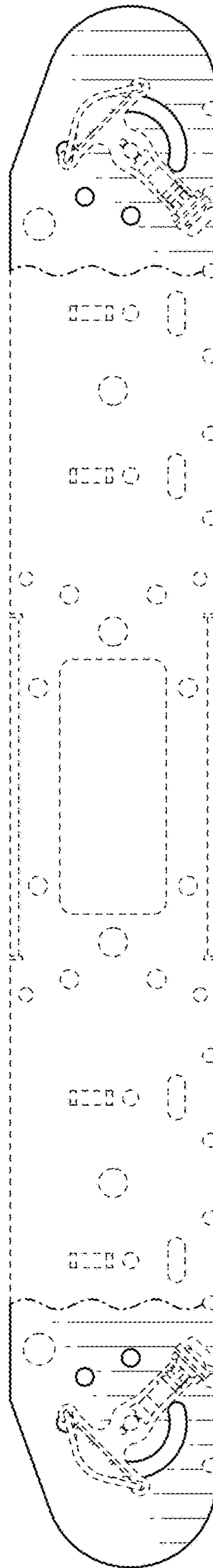


FIG. 22