



US00D844216S

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

(10) **Patent No.:** **US D844,216 S**  
(45) **Date of Patent:** **\*\* Mar. 26, 2019**

(54) **DRIVER HOUSING**

- (71) Applicant: **KENALL MANUFACTURING COMPANY**, Kenosha, WI (US)
- (72) Inventor: **Steven Akiyama**, New Lenox, IL (US)
- (73) Assignee: **KENALL MANUFACTURING COMPANY**, Kenosha, WI (US)
- (\*\*) Term: **15 Years**
- (21) Appl. No.: **29/624,221**

(22) Filed: **Oct. 31, 2017**

**Related U.S. Application Data**

(60) Continuation of application No. 29/538,281, filed on Sep. 2, 2015, now Pat. No. Des. 805,240, which is a division of application No. 29/475,909, filed on Dec. 9, 2013, now Pat. No. Des. 742,581.

(51) **LOC (11) Cl.** ..... **26-04**

(52) **U.S. Cl.**

USPC ..... **D26/113**

(58) **Field of Classification Search**

USPC ... D26/9, 10, 12, 13, 15, 16, 24, 51, 61, 72, D26/76, 80, 81, 85, 86, 88, 90, 113, 118, D26/119, 120, 122, 128, 129, 138, 143, D26/144; D13/180; D10/18, 21, 24, 25, D10/27, 28, 46, 93, 104.1

CPC .... B60Q 1/04; B60Q 1/26; F21S 8/026; F21S 8/04; F21V 29/004; F21V 21/02; F21V 21/04; F21V 29/2212; F21Y 2101/02

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 2,579,662 A 12/1951 Gibson
- 3,263,071 A \* 7/1966 Fabbri ..... F21V 17/00  
362/355
- 3,755,667 A \* 8/1973 Price ..... F21S 8/02  
362/147
- 3,793,930 A 2/1974 Constantinescu et al.

(Continued)

**OTHER PUBLICATIONS**

pc-TR-w400—TinEye, image post date Feb. 6, 2018, site visited Aug. 2, 2018, (online), <[https://www.tineye.com/search/1f785bd7fe8dcaf9693246fea405e212dfad9ebc/?extension\\_ver=>](https://www.tineye.com/search/1f785bd7fe8dcaf9693246fea405e212dfad9ebc/?extension_ver=>)>.\*

(Continued)

*Primary Examiner* — Kevin K Rudzinski

(74) *Attorney, Agent, or Firm* — Marshall, Gerstein & Borun LLP

(57) **CLAIM**

The ornamental design for a driver housing, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view showing a new design for a driver housing;

FIG. 2 is a front elevation view of the driver housing of FIG. 1;

FIG. 3 is a rear elevation view of the driver housing of FIG. 1;

FIG. 4 is a left-side elevation view of the driver housing of FIG. 1;

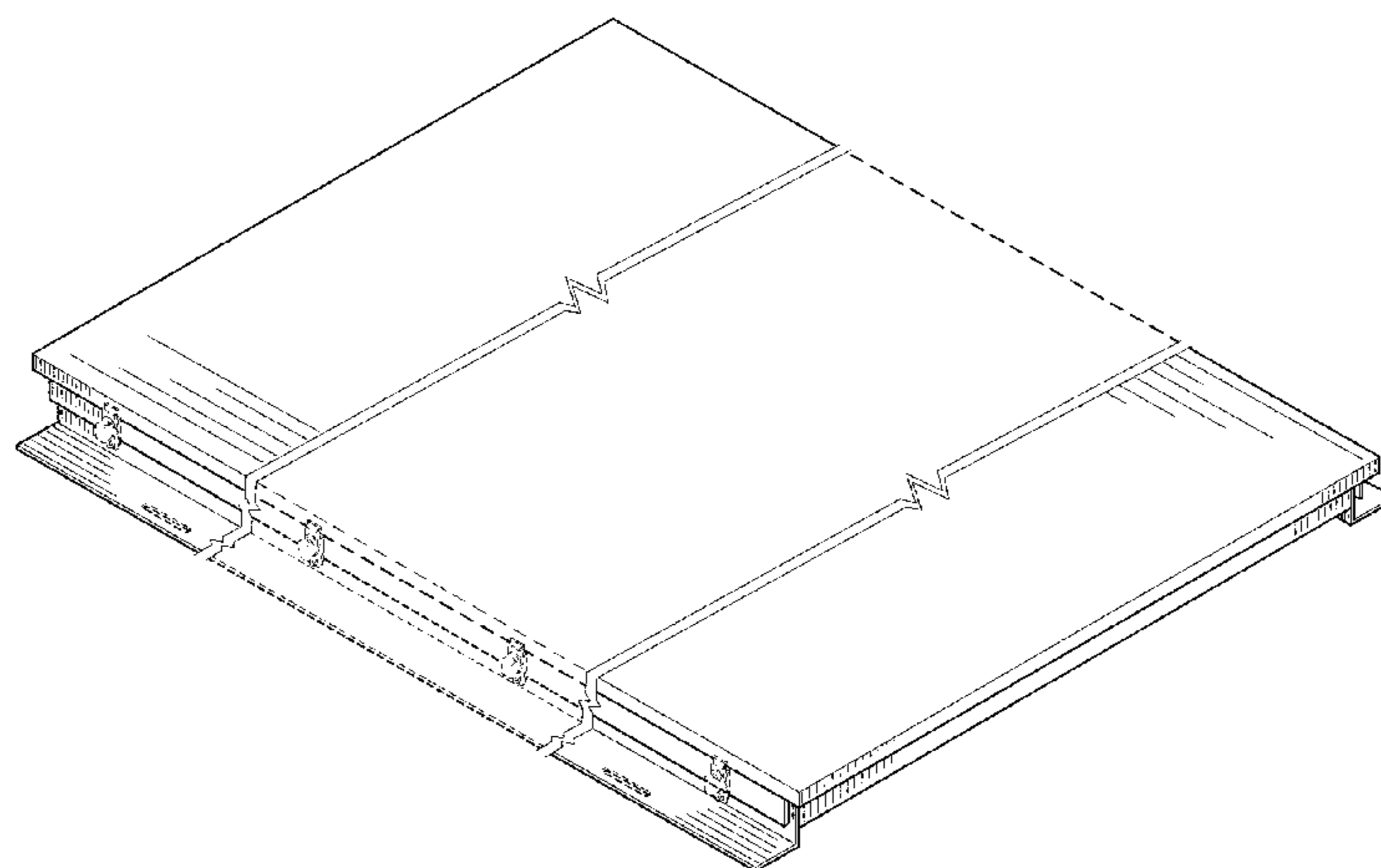
FIG. 5 is a right-side elevation view of the driver housing of FIG. 1;

FIG. 6 is a top plan view of the driver housing of FIG. 1; and, FIG. 7 is a bottom plan view of the driver housing of FIG. 1.

The driver housing is shown with a break in the middle of the design. The portions of the design not shown form no part of the claimed design.

The dashed lines showing portions of the driver housing are included for the purpose of illustrating environment and form no part of the claimed design.

**1 Claim, 5 Drawing Sheets**





(56)

References Cited

U.S. PATENT DOCUMENTS

4,048,491	A *	9/1977	Wessman	.....	F21V 21/04 248/343
4,762,160	A	8/1988	Bechtold et al.		
D311,497	S *	10/1990	Vincent, Sr.	.....	D10/75
5,023,396	A *	6/1991	Bartee	.....	H02G 3/185 174/486
5,301,090	A	4/1994	Hed		
D363,884	S *	11/1995	Reede	.....	D10/65
D372,968	S	8/1996	White		
5,738,436	A	4/1998	Cummings et al.		
5,792,214	A *	8/1998	Larsson	.....	A61N 5/0621 362/130
5,806,972	A *	9/1998	Kaiser	.....	F21S 8/02 362/290
D400,281	S *	10/1998	Kerr	.....	D26/74
D412,564	S	8/1999	Pustelnik		
6,039,582	A *	3/2000	Geis	.....	H01R 4/4818 336/90
D427,533	S *	7/2000	Cowan	.....	D10/46
6,197,444	B1	3/2001	Vackar		
6,201,885	B1 *	3/2001	Hodgson	.....	G01B 11/28 209/576
6,232,553	B1 *	5/2001	Regen	.....	H02G 3/083 174/350
6,375,338	B1	4/2002	Cummings et al.		
D456,787	S *	5/2002	Wasada	.....	D13/182
D465,463	S	11/2002	Wasada et al.		
6,493,224	B1	12/2002	Mottahed		
6,565,238	B1 *	5/2003	Pyrtle	.....	F21S 8/02 362/218
D482,662	S	11/2003	Foster et al.		
7,102,172	B2	9/2006	Lynch et al.		
D552,451	S	10/2007	Yashar		
D585,581	S *	1/2009	Purcell	.....	D26/76
D599,485	S	9/2009	Burrows et al.		
D613,243	S	4/2010	Burt		
D618,327	S	6/2010	Rupikowski		
D621,016	S	8/2010	Garcia		
D627,824	S	11/2010	Nakayama et al.		
D628,718	S *	12/2010	Grubka	.....	D25/141
D631,431	S	1/2011	DeFelice		
7,918,591	B2	4/2011	Lynch		
D638,367	S	5/2011	Isaacks et al.		
D647,239	S *	10/2011	Beghelli	.....	D26/74
D654,211	S	2/2012	Melzner et al.		
8,128,256	B2 *	3/2012	Kim	.....	F21S 8/026 362/235
D660,252	S *	5/2012	Hargreaves	.....	D13/156
D664,699	S	7/2012	Nakahira et al.		
D671,251	S	11/2012	Piepgas et al.		
D673,712	S *	1/2013	Patel	.....	D26/74
D679,036	S	3/2013	Inoue		
8,556,453	B1 *	10/2013	Crane	.....	F21S 8/026 362/217.01
D695,443	S *	12/2013	Kaule	.....	D26/76
D697,022	S	1/2014	Truthseeker et al.		
D698,974	S *	2/2014	Aniserowicz	.....	D26/74
D699,386	S *	2/2014	Park	.....	D26/118
D703,305	S	4/2014	Stollenwerk O'Hagin		
D707,880	S *	6/2014	Magnusson	.....	D26/120
D715,800	S	10/2014	Cornelison		
D726,359	S *	4/2015	Grigore	.....	D26/74
D730,556	S *	5/2015	Toyohisa	.....	D26/74
9,028,091	B2 *	5/2015	Holland	.....	F21V 7/005 362/218
D732,225	S *	6/2015	Grandsart	.....	D26/75
9,062,838	B1 *	6/2015	Merrill, Jr.	.....	F21S 8/026
9,074,743	B2 *	7/2015	Heim	.....	F21S 8/04
9,134,014	B2	9/2015	Lyu et al.		
D742,581	S *	11/2015	Akiyama	.....	D26/113
D745,000	S	12/2015	Lim		
9,249,571	B1	2/2016	White		
D754,083	S *	4/2016	Vinciarelli	.....	D13/182
D754,658	S	4/2016	Sumii		
9,310,066	B2 *	4/2016	Dahlen	.....	F21V 29/503
9,322,518	B1 *	4/2016	Steadly	.....	F16B 1/00
D760,230	S	6/2016	Iizuka et al.		
D760,990	S	7/2016	Baker et al.		
9,414,456	B2	8/2016	Wong et al.		
9,453,639	B2 *	9/2016	Mandy	.....	F21S 8/026
D769,810	S	10/2016	Lin		
D769,834	S *	10/2016	Kawase	.....	D13/182
D772,172	S	11/2016	Takano et al.		
9,481,300	B1 *	11/2016	Lutawan	.....	B60Q 9/008
9,482,410	B2 *	11/2016	Lee	.....	H01L 25/0753
D773,409	S	12/2016	Rodarte et al.		
D773,413	S	12/2016	Yoneyama et al.		
D774,451	S	12/2016	Castillo-Aguilella et al.		
D774,874	S	12/2016	Wentzel et al.		
D775,093	S	12/2016	Vinciarelli et al.		
D776,853	S *	1/2017	Akiyama	.....	D26/74
D777,122	S *	1/2017	Bergmann	.....	D13/180
D777,124	S	1/2017	Hasegawa et al.		
9,534,739	B2 *	1/2017	Lay	.....	F21V 25/12
9,544,973	B2	1/2017	Dahlen		
D778,833	S	2/2017	Li et al.		
D778,852	S	2/2017	Matsumoto et al.		
D780,359	S	2/2017	Chen et al.		
D780,362	S *	2/2017	Akiyama	.....	D26/74
D782,106	S	3/2017	Porciatti		
D783,549	S *	4/2017	Yoneyama	.....	D13/182
D783,550	S *	4/2017	Hasegawa	.....	D13/182
D784,339	S *	4/2017	Liao	.....	D14/433
D784,593	S *	4/2017	Ambrozus	.....	D26/74
D785,577	S *	5/2017	Kawase	.....	D13/182
D785,616	S	5/2017	Zimmermann et al.		
D786,203	S *	5/2017	Ide	.....	D13/180
D786,859	S	5/2017	Kim et al.		
D789,589	S *	6/2017	Yorio	.....	D26/76
D789,718	S *	6/2017	Gokhale	.....	D6/705
D791,344	S *	7/2017	Lamberts	.....	D25/109
D794,867	S *	8/2017	Yulin	.....	D26/138
D796,110	S *	8/2017	Klus	.....	D26/138
D796,661	S *	9/2017	Oswald, Jr.	.....	D23/388
D797,321	S *	9/2017	Liu	.....	D26/1
D801,570	S *	10/2017	Grandsart	.....	D26/76
9,816,694	B2 *	11/2017	Dahlen	.....	F21V 23/008
D805,240	S *	12/2017	Akiyama	.....	D26/113
D805,680	S *	12/2017	Akiyama	.....	D26/113
D806,013	S *	12/2017	Mascolo	.....	D13/102
D808,069	S *	1/2018	Kjaergaard Toft	.....	D26/152
D808,348	S *	1/2018	Lengua	.....	D13/180
9,874,343	B2 *	1/2018	Dahlen	.....	F21V 29/503
D809,702	S *	2/2018	Drew	.....	D26/118
D810,553	S *	2/2018	Amato	.....	D8/377
9,897,305	B2 *	2/2018	Ryder	.....	F21V 31/005
D822,883	S *	7/2018	Stanley	.....	D26/118
D824,243	S *	7/2018	Ruhnke	.....	D8/356
2004/0082209	A1	4/2004	Zenaboni		
2004/0105264	A1	6/2004	Spero		
2007/0076459	A1	4/2007	Limpkin		
2007/0247850	A1 *	10/2007	Hawkins	.....	F21V 25/00 362/267
2009/0073692	A1	3/2009	Berger et al.		
2009/0196023	A1 *	8/2009	Heiking	.....	F21S 8/026 362/147
2009/0196024	A1 *	8/2009	Heiking	.....	F21S 8/026 362/150
2009/0290343	A1	11/2009	Brown et al.		
2010/0085748	A1	4/2010	Kelly et al.		
2010/0110684	A1	5/2010	Abdelsamed et al.		
2010/0142202	A1	6/2010	Sugishita et al.		
2010/0280677	A1	11/2010	Budike, Jr.		
2011/0164411	A1	7/2011	Sparing et al.		
2011/0273877	A1	11/2011	Reed et al.		
2012/0159821	A1	6/2012	Miletich et al.		
2012/0176795	A1	7/2012	Lynch		
2012/0217882	A1	8/2012	Wong et al.		
2012/0249016	A1	10/2012	Smith		
2012/0293086	A1	11/2012	Ishikita et al.		
2012/0294000	A1	11/2012	Thomas et al.		
2013/0003373	A1	1/2013	Hamby et al.		
2013/0027935	A1	1/2013	Ladewig et al.		

(56)

References Cited

U.S. PATENT DOCUMENTS

2013/0049627 A1 2/2013 Roberts et al.  
 2013/0058108 A1 3/2013 Blincoe et al.  
 2013/0062724 A1 3/2013 Tokuyama et al.  
 2013/0063935 A1 3/2013 Thraikill  
 2013/0077311 A1 3/2013 Kinnune et al.  
 2013/0208471 A1 8/2013 Lueken et al.  
 2014/0198430 A1 7/2014 Veenker  
 2014/0294215 A1 10/2014 Caldes  
 2014/0340882 A1 11/2014 Woods et al.  
 2015/0153031 A1\* 6/2015 Myers ..... F21S 8/04  
 362/612  
 2015/0159852 A1 6/2015 Dahlen et al.  
 2015/0163884 A1\* 6/2015 Dahlen ..... H05B 37/00  
 315/185 R  
 2015/0184808 A1\* 7/2015 Wang ..... F21V 23/009  
 362/235  
 2015/0345770 A1\* 12/2015 Badley ..... F21V 29/74  
 362/373  
 2016/0033088 A1\* 2/2016 Mayfield, III ..... F21K 9/17  
 362/225  
 2016/0315413 A1\* 10/2016 Kobayashi ..... H01R 13/521  
 2016/0319823 A1 11/2016 Liessmann et al.  
 2016/0327257 A1 11/2016 Li et al.  
 2016/0341220 A1 11/2016 Kondou et al.  
 2016/0369981 A1\* 12/2016 Emde ..... F21S 6/003  
 2017/0030361 A1 2/2017 Niemiec et al.  
 2017/0074473 A1 3/2017 Ogg et al.  
 2017/0075059 A1\* 3/2017 Dahlen ..... F21S 8/043  
 2017/0097147 A1 4/2017 Myers et al.

2017/0099426 A1 4/2017 Okunami  
 2017/0117687 A1 4/2017 Smith et al.  
 2017/0138573 A1 5/2017 Spiel et al.  
 2017/0356625 A1\* 12/2017 Sorensen ..... F21V 11/02  
 2018/0017218 A1\* 1/2018 Ham ..... F21V 17/12  
 2018/0067602 A1\* 3/2018 Zhang ..... G06F 3/0414  
 2018/0073687 A1\* 3/2018 Musser ..... F21K 9/275  
 2018/0149319 A1\* 5/2018 Price ..... F21K 9/275  
 2018/0156399 A1\* 6/2018 Sorensen ..... F21V 19/001  
 2018/0172228 A1\* 6/2018 Green ..... F21S 8/043  
 2018/0202634 A1\* 7/2018 Farzan ..... F21V 23/009

OTHER PUBLICATIONS

Kenall Products RD700, image post date Sep. 23, 2017, site visited Aug. 2, 2018, (online), <<https://web.archive.org/web/20170923100304/https://kenall.com/Home/Products/Transportation/Tunnel>>.\*  
 ARSTC Flat Top-Mount Rack Shelf, image post date Dec. 25, 2010, site visited Apr. 3, 2015, (online), <[http://web.archive.org/web/20101225130211/http://www.bhphotovideo.com/c/product/528661-REG/Odyssey\\_Innovative\\_Designs\\_ARSTC\\_ARSTC\\_Flat\\_Top\\_Mount\\_Rack.html](http://web.archive.org/web/20101225130211/http://www.bhphotovideo.com/c/product/528661-REG/Odyssey_Innovative_Designs_ARSTC_ARSTC_Flat_Top_Mount_Rack.html)>.  
 Rackmount Sliding Shelf, image post date Apr. 12, 2013, site visited Apr. 3, 2015, (online), <<http://web.archive.org/web/20130412173615/http://www.engineersupply.com/Kendall-Howard-Rackmount-Sliding-Shelf.aspx>>.  
 Waterproof led driver housings, image post date 1999, site visited May 27, 2017, (online), <<https://www.alibaba.com/showroom/waterproof-led-driver-housing.html>>.

\* cited by examiner



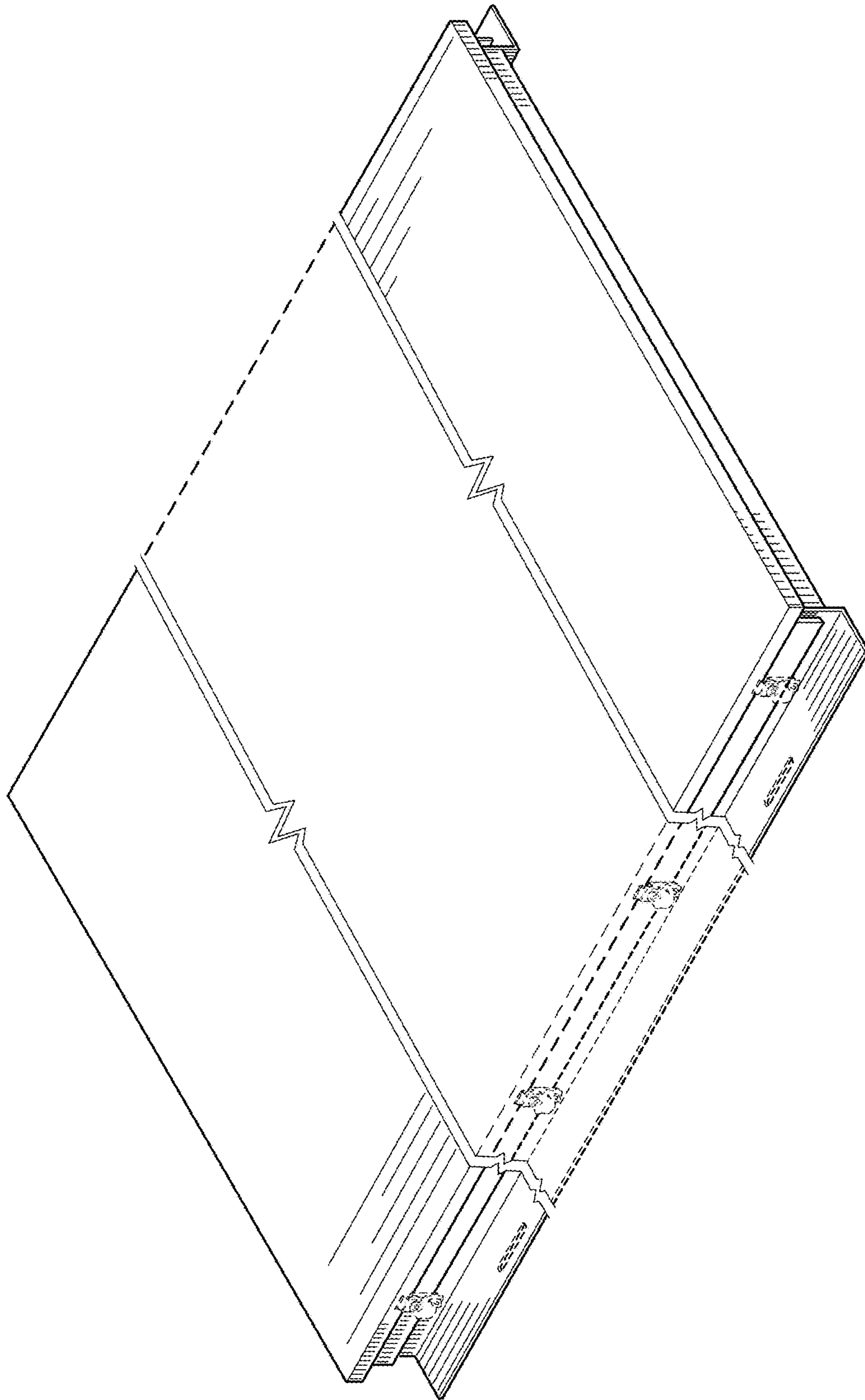
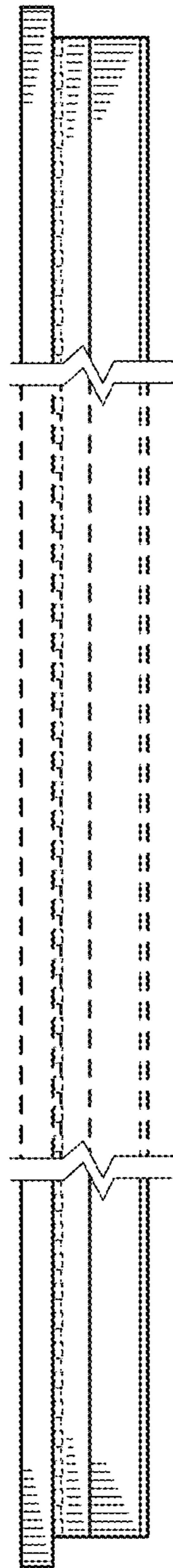
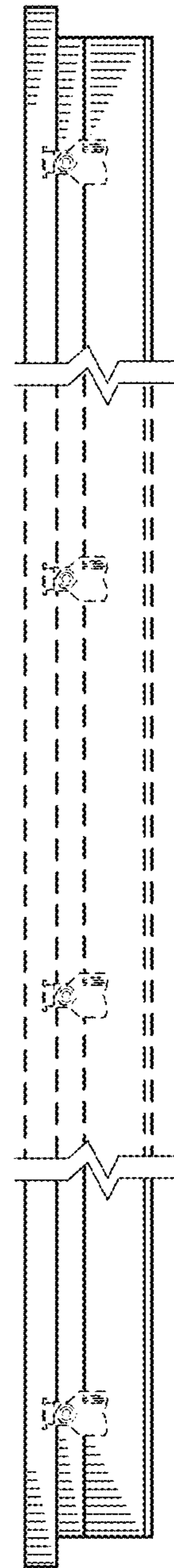


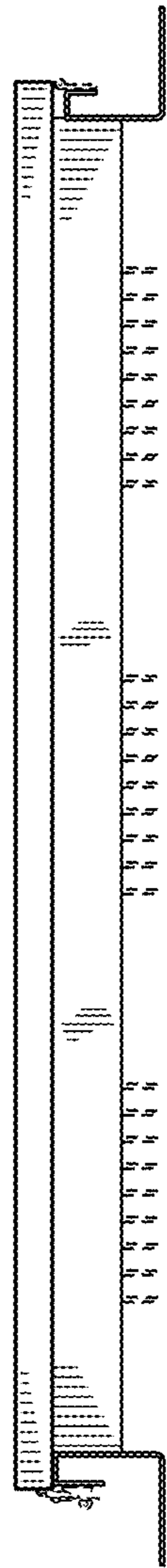
FIG. 1



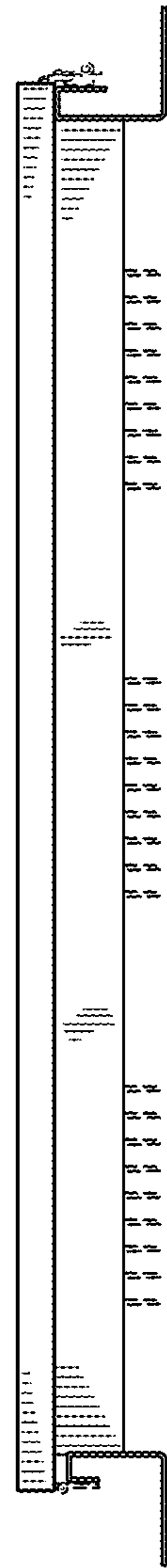
**FIG. 2**



**FIG. 3**



**FIG. 4**



**FIG. 5**

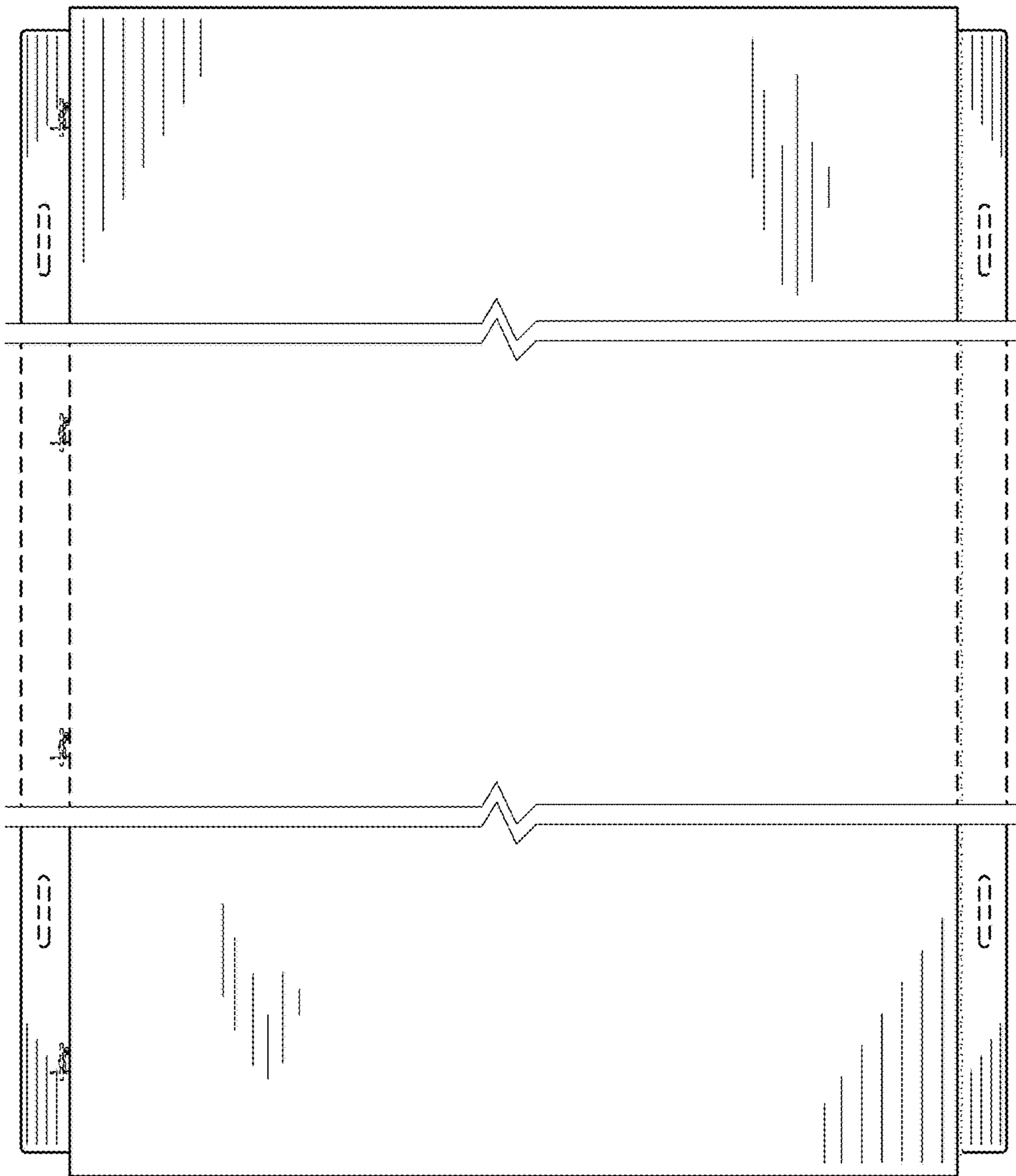


FIG. 6

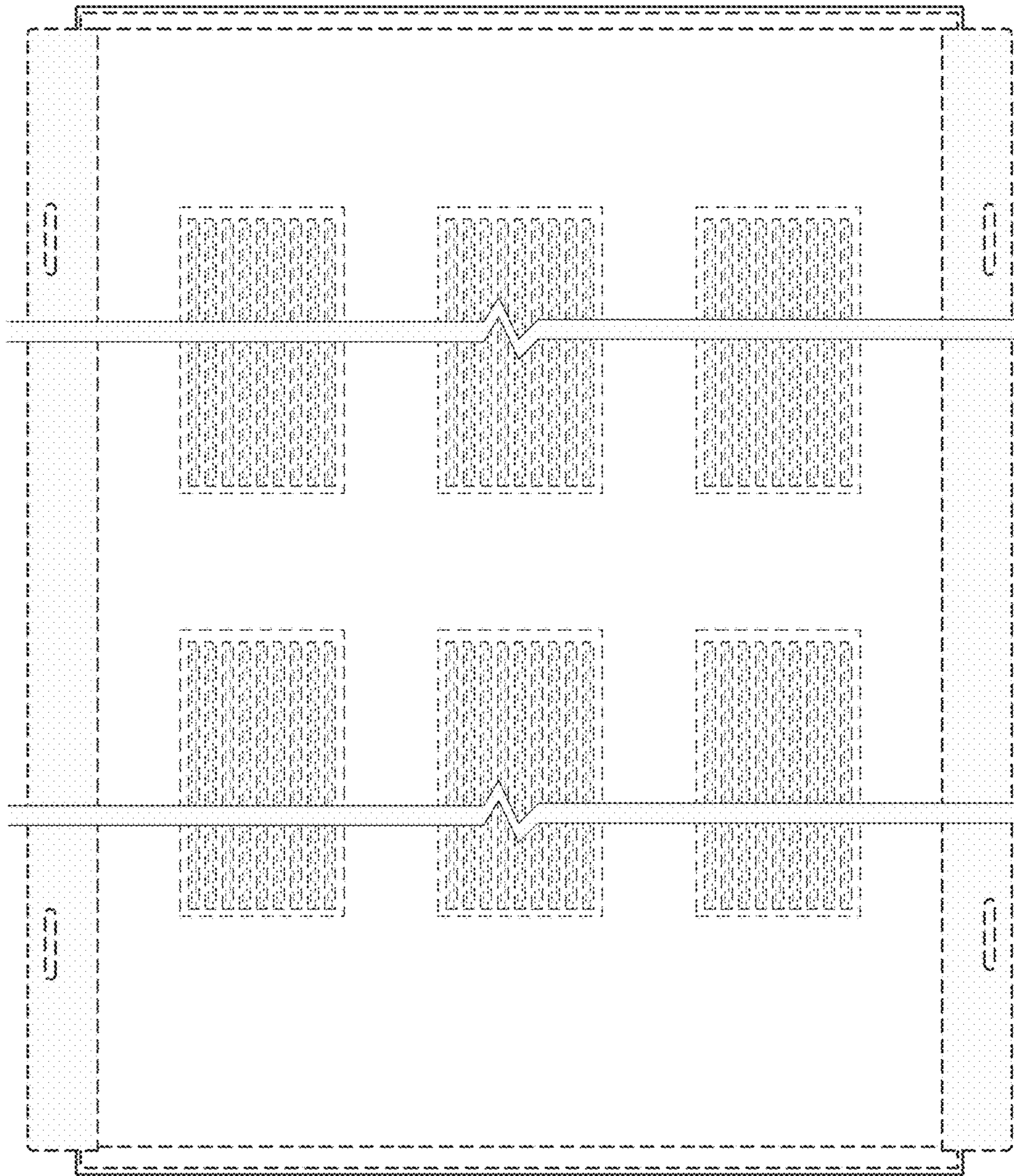


FIG. 7