



US00D901398S

(12) **United States Design Patent** (10) **Patent No.:** **US D901,398 S**
Danesh et al. (45) **Date of Patent:** **** Nov. 10, 2020**

(54) **PLASTIC DEEP ELECTRICAL JUNCTION BOX**

3,023,920 A 3/1962 Cook et al.
3,057,993 A 10/1962 Gellert
3,422,261 A 1/1969 McGinty
3,460,299 A 8/1969 Wilson
3,650,046 A 3/1972 Skinner
3,675,807 A 7/1972 Lund et al.
3,700,885 A 10/1972 Bobrick

(71) Applicant: **DMF, Inc.**, Carson, CA (US)

(72) Inventors: **Michael D. Danesh**, Carson, CA (US);
Amir Lotfi, Redondo Beach, CA (US);
Ali A. Nikooyan, Santa Ana, CA (US)

(Continued)

(73) Assignee: **DMF, Inc.**, Carson, CA (US)

FOREIGN PATENT DOCUMENTS

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

CA 2243934 C 6/2002
CA 2502637 A1 9/2005

(Continued)

(21) Appl. No.: **29/678,482**

(22) Filed: **Jan. 29, 2019**

OTHER PUBLICATIONS

(51) **LOC (12) Cl.** **13-03**

U.S. Appl. No. 15/637,742, filed Jun. 29, 2017, Kopitzke, IV.

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

(Continued)

USPC **D13/152**

(58) **Field of Classification Search**

USPC D13/152, 155, 133, 156, 158, 184;
D15/89; 174/659, 58, 483; D7/396.2;
D23/261

Primary Examiner — Rhea Shields

(74) *Attorney, Agent, or Firm* — Smith Baluch LLP

CPC H02G 3/185; H02G 3/125; H02G 3/0625;
H02G 3/083; H02G 3/20; H02G 3/126;
H02G 3/12; H02G 3/14

(57)

CLAIM

The ornamental design for a plastic deep electrical junction box, as shown and described.

See application file for complete search history.

DESCRIPTION

(56) **References Cited**

FIG. 1 is a top view of a plastic deep electrical junction box showing our new design;

FIG. 2 is a bottom interior view thereof;

FIG. 3 is a right side view thereof, the left side being identical;

FIG. 4 is a front view thereof, the rear view being identical;

FIG. 5 is a top perspective view thereof; and,

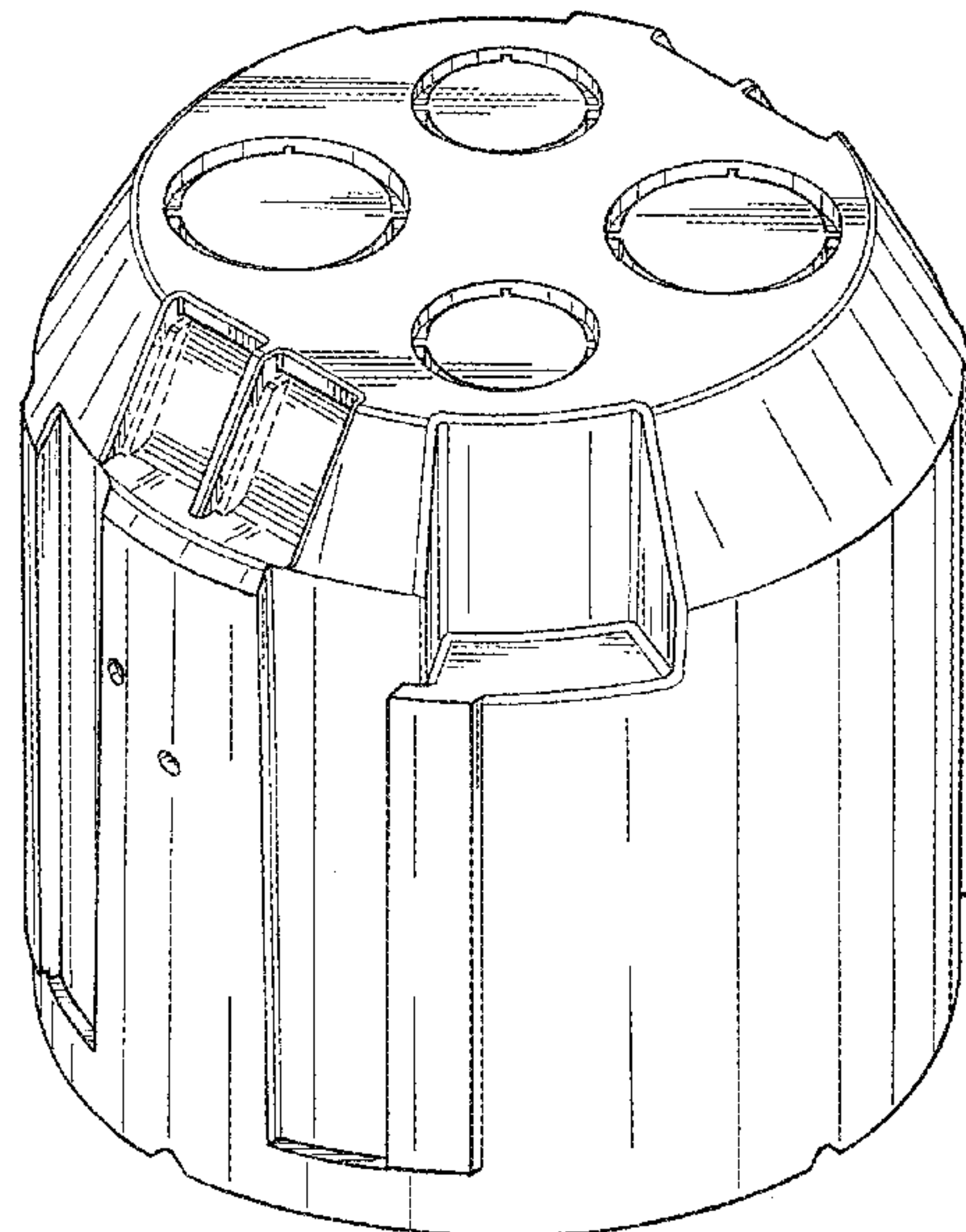
FIG. 6 is a bottom interior perspective view thereof.

The dashed broken lines in the drawings are for the purpose of illustrating portions of the plastic deep electrical junction box that form no part of the claimed design.

U.S. PATENT DOCUMENTS

1,471,340 A 10/1923 Knight
2,038,784 A 4/1936 Ghadiali
2,179,161 A 11/1939 Rambusch
2,197,737 A 4/1940 Appleton
2,528,989 A 11/1950 Ammells
2,642,246 A 6/1953 Larry
2,670,919 A 3/1954 Vincent
2,697,535 A 12/1954 Olson
D180,844 S 8/1957 Poliakoff
2,802,933 A 8/1957 Harry
2,998,512 A 8/1961 Duchene et al.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

3,711,053	A	1/1973	Drake		6,600,175	B1	7/2003	Baretz et al.	
D227,989	S *	7/1973	Geisel	D13/156	D478,872	S *	8/2003	Heggem	D13/152
3,812,342	A	5/1974	Mcnamara		6,632,006	B1	10/2003	Rippel et al.	
3,836,766	A	9/1974	Auerbach		6,657,236	B1	12/2003	Thibeault et al.	
3,874,035	A	4/1975	Schuplin		6,666,419	B1	12/2003	Vrame	
D245,905	S	9/1977	Taylor		D487,600	S	3/2004	Fickas	
4,088,827	A	5/1978	Kohaut		D488,583	S	4/2004	Benghozi	
4,154,218	A	5/1979	Hulet		6,719,438	B2	4/2004	Sevack et al.	
4,154,219	A	5/1979	Gupta et al.		6,758,578	B1	7/2004	Chou	
4,176,758	A *	12/1979	Glick	H02G 3/125 174/58	6,777,615	B1	8/2004	Gretz	
4,280,169	A	7/1981	Allen		6,779,908	B1	8/2004	Ng	
4,399,497	A	8/1983	Druffel		6,827,229	B2 *	12/2004	Dinh	H02G 3/20 220/3.3
4,450,512	A	5/1984	Kristofek		6,838,618	B2	1/2005	Newbold et al.	
4,520,435	A	5/1985	Baldwin		6,906,352	B2	6/2005	Edmond et al.	
4,539,629	A	9/1985	Poppenheimer		D509,314	S	9/2005	Rashidi	
4,601,145	A	7/1986	Wilcox		6,948,829	B2	9/2005	Verdes et al.	
4,667,840	A	5/1987	Lindsey		6,958,497	B2	10/2005	Emerson et al.	
4,723,747	A	2/1988	Karp et al.		6,964,501	B2	11/2005	Ryan	
4,729,080	A	3/1988	Fremont et al.		D516,235	S	2/2006	Rashidi	
4,754,377	A	6/1988	Wenman		7,025,477	B2	4/2006	Blessing	
4,770,311	A	9/1988	Wang		7,064,269	B2	6/2006	Smith	
4,910,651	A	3/1990	Montanez		D528,673	S	9/2006	Maxik et al.	
4,929,187	A	5/1990	Hudson et al.		7,102,172	B2	9/2006	Lynch	
4,930,054	A	5/1990	Krebs		D531,740	S	11/2006	Maxik	
5,216,203	A	6/1993	Gower		D532,532	S	11/2006	Maxik	
5,222,800	A	6/1993	Chan et al.		7,148,420	B1 *	12/2006	Johnson	H02G 3/125 174/58
5,239,132	A	8/1993	Bartow		7,154,040	B1	12/2006	Tompkins	
5,250,269	A	10/1993	Langer et al.		7,170,015	B1 *	1/2007	Roesch	H02G 3/126 174/480
5,266,050	A *	11/1993	O'Neil	H02G 3/0625 174/659	D536,349	S *	2/2007	Humber	D15/89
5,382,752	A	1/1995	Reyhan et al.		D537,039	S	2/2007	Pincek	
5,465,199	A	11/1995	Bray et al.		D539,229	S *	3/2007	Murphey	D13/155
5,505,419	A	4/1996	Gabrius		7,186,008	B2	3/2007	Patti	
5,544,870	A	8/1996	Kelly et al.		7,190,126	B1	3/2007	Paton	
5,562,343	A	10/1996	Chan et al.		7,211,833	B2	5/2007	Slater, Jr. et al.	
5,571,993	A	11/1996	Jones et al.		7,213,940	B1	5/2007	Van De Ven et al.	
5,580,158	A	12/1996	Aubrey et al.		7,234,674	B2	6/2007	Rippel et al.	
5,588,737	A	12/1996	Kusmer		D547,889	S	7/2007	Huang	
5,603,424	A	2/1997	Bordwell et al.		D552,969	S	10/2007	Bobrowski et al.	
5,609,408	A	3/1997	Targetti		D553,267	S	10/2007	Yuen	
5,613,338	A	3/1997	Esposito		D555,106	S *	11/2007	Pape	D13/158
D381,111	S	7/1997	Lecluze		D556,144	S *	11/2007	Dinh	D13/152
5,662,413	A	9/1997	Akiyama et al.		7,297,870	B1	11/2007	Sartini	
D386,277	S	11/1997	Lecluze		7,312,474	B2	12/2007	Emerson et al.	
5,690,423	A	11/1997	Hentz et al.		7,320,536	B2	1/2008	Petrakis et al.	
D387,466	S	12/1997	Lecluze		D561,372	S	2/2008	Yan	
5,738,436	A	4/1998	Cummings et al.		D561,373	S	2/2008	Yan	
5,836,678	A	11/1998	Wright et al.		7,335,920	B2	2/2008	Denbaars et al.	
5,942,726	A	8/1999	Reiker		D563,896	S	3/2008	Greenslate	
5,944,412	A	9/1999	Janos et al.		7,347,580	B2	3/2008	Blackman et al.	
5,957,573	A	9/1999	Wedekind et al.		D570,012	S	5/2008	Huang	
5,975,323	A	11/1999	Turan		7,374,308	B2	5/2008	Sevack et al.	
6,082,878	A	7/2000	Doubek et al.		D570,504	S	6/2008	Maxik et al.	
6,105,334	A	8/2000	Monson et al.		D570,505	S	6/2008	Maxik et al.	
6,161,910	A	12/2000	Reisenauer et al.		7,399,104	B2	7/2008	Rappaport	
6,170,685	B1	1/2001	Currier		7,429,025	B1	9/2008	Gretz	
6,170,965	B1	1/2001	Kotovskiy		D578,677	S	10/2008	Huang	
6,174,076	B1	1/2001	Petrakis et al.		7,431,482	B1	10/2008	Morgan et al.	
6,176,599	B1	1/2001	Farzen		7,432,440	B2	10/2008	Hull et al.	
6,267,491	B1	7/2001	Parrigin		7,442,883	B2 *	10/2008	Jolly	H02G 3/185 174/483
6,332,597	B1	12/2001	Korc et al.		7,446,345	B2	11/2008	Emerson et al.	
6,350,043	B1	2/2002	Gloisten		7,470,048	B2	12/2008	Wu	
6,350,046	B1	2/2002	Lau		7,473,005	B2	1/2009	O'Brien	
6,364,511	B1	4/2002	Cohen		7,488,097	B2	2/2009	Reisenauer et al.	
6,375,338	B1	4/2002	Cummings et al.		7,494,258	B2	2/2009	McNaught	
6,402,112	B1	6/2002	Thomas et al.		7,503,145	B2	3/2009	Newbold et al.	
D461,455	S	8/2002	Forbes		7,524,089	B2	4/2009	Park	
6,461,016	B1	10/2002	Jamison et al.		D591,894	S	5/2009	Flank	
6,474,846	B1	11/2002	Kelmelis et al.		7,534,989	B2	5/2009	Suehara et al.	
6,491,413	B1	12/2002	Benesohn		D596,154	S *	7/2009	Rivkin	D13/184
D468,697	S	1/2003	Straub, Jr.		7,566,154	B2	7/2009	Gloisten et al.	
6,515,313	B1	2/2003	Ibbetson et al.		D599,040	S	8/2009	Alexander et al.	
6,583,573	B2	6/2003	Bierman		D600,836	S	9/2009	Hanley et al.	
6,585,389	B2	7/2003	Bonazzi		7,588,359	B2	9/2009	Coushaine et al.	
					7,592,583	B2	9/2009	Page et al.	
					D606,696	S	12/2009	Chen et al.	

(56)

References Cited

U.S. PATENT DOCUMENTS

7,625,105 B1	12/2009	Johnson	8,240,630 B2	8/2012	Wronski
7,628,513 B2	12/2009	Chiu	D667,155 S	9/2012	Rashidi
7,651,238 B2	1/2010	O'Brien	8,262,255 B1	9/2012	Rashidi
7,654,705 B2	2/2010	Czech et al.	D668,372 S	10/2012	Renshaw et al.
D611,650 S	3/2010	Broekhoff	D668,809 S	10/2012	Rashidi
7,670,021 B2	3/2010	Chou	D669,198 S	10/2012	Qui
7,673,841 B2	3/2010	Wronski	D669,199 S	10/2012	Chuang
7,677,766 B2	3/2010	Boyer	D669,620 S	10/2012	Rashidi
7,692,182 B2	4/2010	Bergmann et al.	8,277,090 B2	10/2012	Fryzek et al.
7,704,763 B2	4/2010	Fujii et al.	8,308,322 B2	11/2012	Santiago et al.
D616,118 S	5/2010	Thomas et al.	D673,869 S	1/2013	Yu
7,722,208 B1	5/2010	Dupre et al.	D676,263 S	2/2013	Birke
7,722,227 B2	5/2010	Zhang et al.	D676,814 S	2/2013	Paul
7,735,795 B2	6/2010	Wronski	8,376,593 B2	2/2013	Bazydola et al.
7,735,798 B2	6/2010	Kojima	D677,417 S	3/2013	Rashidi
7,748,887 B2	7/2010	Zampini, II et al.	D677,634 S *	3/2013	Korz D13/152
7,766,518 B2	8/2010	Piepgas et al.	D679,047 S	3/2013	Tickner et al.
7,769,192 B2	8/2010	Takagi et al.	8,403,533 B1	3/2013	Paulsel
7,771,082 B2	8/2010	Peng	8,403,541 B1	3/2013	Rashidi
7,771,094 B2	8/2010	Goode	D681,259 S	4/2013	Kong
7,784,754 B2	8/2010	Nevers et al.	8,408,759 B1	4/2013	Rashidi
D624,692 S	9/2010	MacKin et al.	D682,459 S	5/2013	Gordin et al.
D625,847 S	10/2010	Maglica	D683,063 S	5/2013	Lopez et al.
D625,876 S	10/2010	Chen et al.	D683,890 S	6/2013	Lopez et al.
D627,727 S	11/2010	Alexander et al.	D684,269 S	6/2013	Wang et al.
7,828,465 B2	11/2010	Roberge et al.	D684,719 S	6/2013	Rashidi
D629,366 S *	12/2010	Ericson D13/156	D685,118 S	6/2013	Rashidi
7,871,184 B2	1/2011	Peng	D685,120 S	6/2013	Rashidi
7,874,539 B2	1/2011	Wright et al.	8,454,204 B1	6/2013	Chang et al.
7,874,709 B1	1/2011	Beadle	D685,507 S	7/2013	Sun
D633,224 S	2/2011	Lee	D687,586 S	8/2013	Rashidi
D636,903 S	4/2011	Torenbeek	D687,587 S	8/2013	Rashidi
D637,339 S	5/2011	Hasan et al.	D687,588 S	8/2013	Rashidi
D637,340 S	5/2011	Hasan et al.	D687,980 S	8/2013	Gravelly et al.
7,950,832 B2	5/2011	Tanaka et al.	D688,405 S	8/2013	Kim et al.
D639,499 S	6/2011	Choi et al.	8,506,127 B2	8/2013	Russello et al.
D640,819 S	6/2011	Pan	8,506,134 B2	8/2013	Wilson et al.
7,956,546 B2	6/2011	Hasnain	D690,049 S	9/2013	Rashidi
7,959,332 B2	6/2011	Tickner et al.	D690,864 S	10/2013	Rashidi
7,967,480 B2	6/2011	Pickard et al.	D690,865 S	10/2013	Rashidi
D642,317 S	7/2011	Rashidi	D690,866 S	10/2013	Rashidi
7,972,035 B2	7/2011	Boyer	D691,314 S	10/2013	Rashidi
7,972,043 B2	7/2011	Schutte	D691,315 S	10/2013	Samson
D642,536 S *	8/2011	Robinson D13/154	D691,763 S	10/2013	Hand et al.
D643,970 S	8/2011	Kim et al.	8,550,669 B2	10/2013	Macwan et al.
8,002,425 B2	8/2011	Russo et al.	D693,043 S	11/2013	Schmalfuss et al.
D646,011 S	9/2011	Rashidi	D693,517 S	11/2013	Davis
8,013,243 B2 *	9/2011	Korz H02G 3/126 174/481	D694,456 S	11/2013	Rowlette, Jr. et al.
8,038,113 B2	10/2011	Fryzek et al.	D695,441 S	12/2013	Lui et al.
D648,476 S	11/2011	Choi et al.	D696,446 S	12/2013	Huh
D648,477 S	11/2011	Kim et al.	D696,447 S	12/2013	Huh
D650,115 S	12/2011	Kim et al.	D696,448 S	12/2013	Huh
8,070,328 B1	12/2011	Knoble et al.	8,602,601 B2	12/2013	Khazi et al.
8,096,670 B2	1/2012	Trott	D698,067 S	1/2014	Rashidi
D654,205 S	2/2012	Rashidi	D698,068 S	1/2014	Rashidi
D656,262 S	3/2012	Yoshinobu et al.	8,622,361 B2	1/2014	Wronski
D656,263 S	3/2012	Ogawa et al.	D698,985 S	2/2014	Lopez et al.
8,142,057 B2	3/2012	Roos et al.	D699,384 S	2/2014	Rashidi
8,152,334 B2	4/2012	Krogman	D699,687 S *	2/2014	Baldwin D13/156
D658,788 S	5/2012	Dudik et al.	D700,387 S	2/2014	Snell
D658,802 S	5/2012	Chen	8,641,243 B1	2/2014	Rashidi
D659,862 S	5/2012	Tsai	8,659,034 B2	2/2014	Baretz et al.
D659,879 S	5/2012	Rashidi	D701,175 S *	3/2014	Baldwin D13/156
D660,814 S	5/2012	Wilson	D701,466 S	3/2014	Clifford et al.
8,182,116 B2	5/2012	Zhang et al.	8,672,518 B2	3/2014	Boomgaarden et al.
8,201,968 B2	6/2012	Maxik et al.	D702,867 S	4/2014	Kim et al.
D663,058 S	7/2012	Pan	D703,843 S	4/2014	Cheng
D663,466 S	7/2012	Rashidi	8,684,569 B2	4/2014	Pickard et al.
D664,274 S	7/2012	de Visser et al.	D705,472 S	5/2014	Huh
D664,705 S	7/2012	Kong et al.	8,727,582 B2	5/2014	Brown et al.
8,215,805 B2	7/2012	Cogliano et al.	D708,381 S	7/2014	Rashidi
8,220,970 B1	7/2012	Khazi et al.	8,777,449 B2	7/2014	Ven et al.
8,226,270 B2	7/2012	Yamamoto et al.	D710,529 S	8/2014	Lopez et al.
8,238,050 B2	8/2012	Minano et al.	8,801,217 B2	8/2014	Oehle et al.
			8,820,985 B1	9/2014	Tam et al.
			8,833,013 B2	9/2014	Harman
			8,845,144 B1	9/2014	Davies et al.
			D714,989 S	10/2014	Rowlette, Jr. et al.
			8,870,426 B2	10/2014	Biebl et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

8,888,332 B2	11/2014	Martis et al.	D790,102 S	6/2017	Guzzini	
8,890,414 B2	11/2014	Rowlette, Jr. et al.	9,673,597 B2	6/2017	Lee	
D721,845 S	1/2015	Lui et al.	9,689,541 B2	6/2017	Wronski	
8,939,418 B2	1/2015	Green et al.	D791,709 S *	7/2017	Holton	D13/152
D722,296 S *	2/2015	Taylor	D791,711 S *	7/2017	Holton	D13/152
D722,977 S	2/2015	Hagarty	D791,712 S *	7/2017	Holton	D13/152
D722,978 S	2/2015	Hagarty	9,696,021 B2	7/2017	Wronski	
8,950,898 B2	2/2015	Catalano	9,702,516 B1	7/2017	Vasquez et al.	
D726,363 S	4/2015	Danesh	D795,820 S *	8/2017	Wengreen	D13/155
D726,949 S	4/2015	Redfern	9,732,904 B1	8/2017	Wronski	
9,004,435 B2	4/2015	Wronski	9,739,464 B2	8/2017	Wronski	
9,039,254 B2	5/2015	Danesh	9,791,111 B1	10/2017	Huang et al.	
D731,689 S	6/2015	Bernard et al.	9,803,839 B2	10/2017	Visser et al.	
9,062,866 B1	6/2015	Christ et al.	D805,660 S	12/2017	Creasman et al.	
9,065,264 B2	6/2015	Cooper et al.	D809,176 S	1/2018	Partington	
9,068,719 B2	6/2015	Van De Ven et al.	9,863,619 B2	1/2018	Mak	
9,068,722 B2	6/2015	Wronski et al.	D809,465 S *	2/2018	Keirstead	D13/152
D734,525 S	7/2015	Gordin et al.	9,964,266 B2	5/2018	Danesh	
D735,012 S	7/2015	Cowie	D820,494 S	6/2018	Cohen	
D735,142 S	7/2015	Hagarty	9,995,441 B2	6/2018	Power et al.	
9,078,299 B2	7/2015	Ashdown	D824,494 S *	7/2018	Martins	D23/261
9,109,760 B2	8/2015	Shum et al.	D832,218 S *	10/2018	Wronski	D13/152
D739,355 S	9/2015	D'Aubeterre	D833,977 S	11/2018	Danesh et al.	
D739,590 S	9/2015	Redfern	10,139,059 B2	11/2018	Danesh	
9,140,441 B2	9/2015	Goelz et al.	D836,976 S *	1/2019	Reese	D7/396.2
D742,325 S	10/2015	Leung	10,247,390 B1	4/2019	Kopitzke, IV	
9,151,457 B2	10/2015	Pickard et al.	D848,375 S	5/2019	Danesh et al.	
9,151,477 B2	10/2015	Pickard et al.	10,295,163 B1	5/2019	Cohen	
9,217,560 B2	12/2015	Harbers et al.	D851,046 S	6/2019	Peng et al.	
9,222,661 B2	12/2015	Kim et al.	10,408,395 B2	9/2019	Danesh	
9,239,131 B1	1/2016	Wronski et al.	10,408,396 B2	9/2019	Wronski et al.	
9,285,103 B2	3/2016	Van De Ven et al.	D864,877 S	10/2019	Danesh	
9,291,319 B2	3/2016	Kathawate et al.	10,488,000 B2	11/2019	Danesh et al.	
9,301,362 B2	3/2016	Dohn et al.	10,551,044 B2	2/2020	Peng et al.	
D754,078 S *	4/2016	Baldwin	2002/0172047 A1	11/2002	Ashley	
D754,079 S *	4/2016	Baldwin	2003/0006353 A1	1/2003	Dinh et al.	
D754,605 S *	4/2016	McMillan	2003/0016532 A1	1/2003	Reed	
9,303,812 B2	4/2016	Green et al.	2003/0021104 A1	1/2003	Tsao	
9,310,038 B2	4/2016	Athalye	2003/0161153 A1	8/2003	Patti	
9,310,052 B1	4/2016	Shum	2004/0001337 A1	1/2004	Defouw et al.	
9,322,543 B2	4/2016	Hussell et al.	2004/0120141 A1	6/2004	Beadle	
D756,025 S	5/2016	Wronski et al.	2004/0156199 A1	8/2004	Rivas et al.	
9,347,655 B2	5/2016	Boomgaarden et al.	2005/0225966 A1	10/2005	Hartmann et al.	
9,360,190 B1	6/2016	Shum et al.	2005/0227536 A1	10/2005	Gamache et al.	
9,366,418 B2	6/2016	Gifford	2005/0231962 A1	10/2005	Koba et al.	
9,371,966 B2	6/2016	Rowlette, Jr. et al.	2005/0237746 A1	10/2005	Yiu	
D762,181 S	7/2016	Lin	2006/0005988 A1 *	1/2006	Jorgensen	H02G 3/083 174/655
9,395,051 B2	7/2016	Hussell et al.	2006/0158873 A1	7/2006	Newbold et al.	
D762,906 S	8/2016	Jeswani et al.	2006/0198126 A1	9/2006	Jones	
D764,079 S	8/2016	Wu	2006/0215408 A1	9/2006	Lee	
9,404,639 B2	8/2016	Danesh	2006/0237601 A1	10/2006	Rinderer	
9,417,506 B1	8/2016	Tirosh	2006/0243877 A1	11/2006	Rippel	
D766,185 S	9/2016	Hagarty	2006/0250788 A1	11/2006	Hodge et al.	
D767,199 S	9/2016	Wronski et al.	2006/0262545 A1	11/2006	Pieprgras et al.	
9,447,917 B1	9/2016	Wronski et al.	2007/0035951 A1	2/2007	Tseng	
9,447,953 B2	9/2016	Lawlor	2007/0185675 A1	8/2007	Papamichael et al.	
D768,325 S	10/2016	Xu	2007/0200039 A1	8/2007	Petak	
D768,326 S	10/2016	Guzzini	2007/0206374 A1	9/2007	Petrakis et al.	
D769,501 S	10/2016	Jeswani et al.	2008/0002414 A1	1/2008	Miletich et al.	
D770,065 S	10/2016	Tittle	2008/0019138 A1	1/2008	Otte et al.	
9,476,552 B2	10/2016	Myers et al.	2008/0112168 A1	5/2008	Pickard et al.	
9,488,324 B2	11/2016	Shum et al.	2008/0112170 A1	5/2008	Trott	
D776,324 S	1/2017	Gierl et al.	2008/0112171 A1	5/2008	Patti et al.	
D777,967 S	1/2017	Redfern	2008/0137347 A1	6/2008	Troll et al.	
9,534,751 B2	1/2017	Maglica et al.	2008/0165545 A1	7/2008	O'Brien	
D778,241 S	2/2017	Holbrook et al.	2008/0170404 A1	7/2008	Steer et al.	
D778,484 S	2/2017	Guzzini	2008/0232116 A1	9/2008	Kim	
D779,100 S	2/2017	Redfern	2008/0247181 A1	10/2008	Dixon	
9,581,302 B2	2/2017	Danesh	2008/0285271 A1	11/2008	Roberge et al.	
9,599,315 B1	3/2017	Harpenau et al.	2009/0003009 A1	1/2009	Tessnow et al.	
9,605,910 B2	3/2017	Swedberg et al.	2009/0034261 A1	2/2009	Grove	
D785,228 S	4/2017	Guzzini	2009/0080189 A1	3/2009	Wegner	
D786,472 S	5/2017	Redfern	2009/0086484 A1	4/2009	Johnson	
D786,474 S	5/2017	Fujisawa	2009/0097262 A1	4/2009	Zhang et al.	
D788,330 S	5/2017	Johnson et al.	2009/0135613 A1	5/2009	Peng	
			2009/0141500 A1	6/2009	Peng	
			2009/0141506 A1	6/2009	Lan et al.	
			2009/0141508 A1	6/2009	Peng	

(56)

References Cited

U.S. PATENT DOCUMENTS

2009/0147517 A1 6/2009 Li
 2009/0161356 A1 6/2009 Negley et al.
 2009/0237924 A1 9/2009 Ladewig
 2009/0280695 A1 11/2009 Sekela et al.
 2009/0283292 A1* 11/2009 Lehr H02G 3/14
 174/67
 2009/0290343 A1 11/2009 Brown et al.
 2010/0014282 A1 1/2010 Danesh
 2010/0061108 A1 3/2010 Zhang et al.
 2010/0110690 A1 5/2010 Hsu et al.
 2010/0110698 A1 5/2010 Harwood et al.
 2010/0110699 A1 5/2010 Chou
 2010/0148673 A1 6/2010 Stewart et al.
 2010/0149822 A1 6/2010 Cogliano et al.
 2010/0165643 A1 7/2010 Russo et al.
 2010/0244709 A1 9/2010 Steiner et al.
 2010/0246172 A1 9/2010 Liu
 2010/0259919 A1 10/2010 Khazi et al.
 2010/0270903 A1 10/2010 Jao et al.
 2010/0284185 A1 11/2010 Ngai
 2010/0302778 A1 12/2010 Dabiet et al.
 2011/0043040 A1 2/2011 Porter et al.
 2011/0063831 A1 3/2011 Cook
 2011/0068687 A1 3/2011 Takahasi et al.
 2011/0069499 A1 3/2011 Trott et al.
 2011/0080750 A1 4/2011 Jones et al.
 2011/0116276 A1 5/2011 Okamura et al.
 2011/0121756 A1 5/2011 Thomas et al.
 2011/0134634 A1 6/2011 Gingrich, III et al.
 2011/0134651 A1 6/2011 Berman
 2011/0140633 A1 6/2011 Archenhold
 2011/0170294 A1 7/2011 Mier-Langner et al.
 2011/0194299 A1 8/2011 Crooks et al.
 2011/0216534 A1 9/2011 Tickner et al.
 2011/0226919 A1 9/2011 Fryzek et al.
 2011/0255292 A1 10/2011 Shen
 2011/0267828 A1 11/2011 Bazydola et al.
 2011/0285314 A1 11/2011 Carney et al.
 2012/0020104 A1 1/2012 Biebl et al.
 2012/0074852 A1 3/2012 Delnoij
 2012/0106176 A1 5/2012 Lopez et al.
 2012/0113642 A1 5/2012 Catalano
 2012/0140442 A1 6/2012 Woo et al.
 2012/0162994 A1 6/2012 Wasniewski et al.
 2012/0182744 A1 7/2012 Santiago et al.
 2012/0188762 A1 7/2012 Joung et al.
 2012/0243237 A1 9/2012 Toda et al.
 2012/0266449 A1 10/2012 Krupa
 2012/0268688 A1 10/2012 Sato et al.
 2012/0287625 A1 11/2012 Macwan et al.
 2012/0305868 A1* 12/2012 Callahan H02G 3/12
 254/134.3 R
 2013/0009552 A1 1/2013 Page
 2013/0010476 A1 1/2013 Pickard et al.
 2013/0016864 A1 1/2013 Ivey et al.
 2013/0033872 A1 2/2013 Randolph et al.
 2013/0051012 A1 2/2013 Oehle et al.
 2013/0141913 A1 6/2013 Sachsenweger
 2013/0155681 A1 6/2013 Nall et al.
 2013/0163254 A1 6/2013 Chang et al.
 2013/0170232 A1 7/2013 Park et al.
 2013/0170233 A1 7/2013 Nezu et al.
 2013/0227908 A1 9/2013 Gulbrandsen et al.
 2013/0258677 A1 10/2013 Fryzek et al.
 2013/0265750 A1 10/2013 Pickard et al.
 2013/0271989 A1 10/2013 Hussell et al.
 2013/0294084 A1 11/2013 Kathawate et al.
 2013/0301252 A1 11/2013 Hussell et al.
 2013/0322062 A1 12/2013 Danesh
 2013/0322084 A1 12/2013 Ebisawa
 2013/0335980 A1 12/2013 Nakasuji et al.
 2014/0036497 A1 2/2014 Hussell et al.
 2014/0049957 A1 2/2014 Goelz et al.
 2014/0063776 A1 3/2014 Clark et al.
 2014/0071679 A1 3/2014 Booth

2014/0071687 A1 3/2014 Tickner et al.
 2014/0140490 A1 5/2014 Roberts et al.
 2014/0063818 A1 6/2014 Randolph et al.
 2014/0233246 A1 8/2014 Lafreniere et al.
 2014/0254177 A1 9/2014 Danesh
 2014/0268836 A1 9/2014 Thompson
 2014/0268869 A1 9/2014 Blessitt et al.
 2014/0299730 A1 10/2014 Green et al.
 2014/0313775 A1 10/2014 Myers et al.
 2014/0321122 A1 10/2014 Domagala et al.
 2014/0347848 A1 11/2014 Pisavadia et al.
 2015/0009676 A1 1/2015 Danesh
 2015/0029732 A1 1/2015 Hatch
 2015/0078008 A1 3/2015 He
 2015/0138779 A1 5/2015 Livesay et al.
 2015/0184837 A1 7/2015 Zhang et al.
 2015/0198324 A1 7/2015 O'Brien et al.
 2015/0219317 A1 8/2015 Gatof et al.
 2015/0233556 A1 8/2015 Danesh
 2015/0241039 A1 8/2015 Fryzek
 2015/0263497 A1 9/2015 Korcz et al.
 2015/0276185 A1 10/2015 Bailey et al.
 2015/0308662 A1 10/2015 Vice et al.
 2015/0345761 A1 12/2015 Lawlor
 2015/0362159 A1 12/2015 Ludyjan
 2016/0084488 A1 3/2016 Wu et al.
 2016/0209007 A1 7/2016 Belmonte et al.
 2016/0238225 A1 8/2016 Doust
 2016/0308342 A1 10/2016 Witherbee et al.
 2016/0312987 A1 10/2016 Danesh
 2016/0348860 A1 12/2016 Danesh
 2016/0348861 A1 12/2016 Bailey et al.
 2016/0366738 A1 12/2016 Boulanger et al.
 2017/0003007 A1 1/2017 Wronski
 2017/0005460 A1 1/2017 Lee
 2017/0045213 A1 2/2017 Williams et al.
 2017/0059135 A1 3/2017 Jones
 2017/0138576 A1 5/2017 Peng et al.
 2017/0138581 A1 5/2017 Doust
 2017/0198896 A1 7/2017 May
 2017/0307188 A1 10/2017 Oudina et al.
 2018/0142871 A1 5/2018 Morales
 2019/0032874 A1 1/2019 Bonnetto et al.
 2019/0049080 A1 2/2019 Danesh
 2019/0063701 A1 2/2019 Lotfi et al.
 2019/0093836 A1 3/2019 Danesh

FOREIGN PATENT DOCUMENTS

CA 2691480 C 4/2012
 CA 2734369 A1 10/2013
 CA 2561459 A1 11/2013
 CA 2815067 11/2013
 CA 2848289 A1 10/2014
 CN 2182475 Y 11/1994
 CN 201059503 Y 5/2008
 CN 201259125 Y 6/2009
 CN 101608781 A 12/2009
 CN 201636626 U 11/2010
 CN 102062373 A 5/2011
 CN 202014067 U 10/2011
 CN 202392473 U 8/2012
 CN 202733693 U 2/2013
 CN 103307518 A 9/2013
 CN 103322476 A 9/2013
 CN 203215483 U 9/2013
 CN 101498411 B 11/2013
 CN 203273663 U 11/2013
 CN 203297980 U 11/2013
 CN 203628464 U 12/2013
 CN 203641919 U 6/2014
 CN 204300818 U 4/2015
 CN 104654142 A 5/2015
 CN 204513161 U 7/2015
 CN 204611541 U 9/2015
 CN 204786225 U 11/2015
 CN 204829578 U 12/2015
 CN 103712135 B 4/2016
 CN 205606362 U 9/2016

(56)

References Cited

FOREIGN PATENT DOCUMENTS

CN	206130742	U	4/2017
CN	103154606	B	5/2017
CN	206222112	U	6/2017
CN	107013845	A	8/2017
CN	107084343	A	8/2017
DE	9109828	U1	2/1992
DE	199 47 208		5/2001
EP	1 589 289		10/2005
EP	1 672 155	A1	6/2006
EP	1688663		8/2006
EP	2 095 938	A1	2/2008
EP	2 306 072	A1	4/2011
EP	2 453 169	A2	5/2012
EP	2 193 309	B1	7/2012
EP	2 735 787	A1	5/2014
EP	3 104 024	A1	12/2016
GB	2325728		12/1998
GB	2427020	A	12/2006
GB	2466875		7/2010
GB	2471929		1/2014
GB	2509772	A	7/2014
JP	H02113002	U	9/1990
JP	2007091052	A	4/2007
JP	2007265961	A	10/2007
JP	2011060450	A2	3/2011
JP	2012064551	A2	3/2012
JP	2015002027	A2	1/2015
JP	2015002028	A2	1/2015
JP	2016219335	A	12/2016
JP	2017107699	A2	6/2017
KR	1020110008796	A	1/2011
KR	1020120061625	A	6/2012
MX	2011002947	A	9/2011
TW	474382	U	1/2002
WO	WO 2013/128896	A1	9/2013
WO	WO 2015/000212	A1	1/2015
WO	WO 2016152166	A2	9/2016

OTHER PUBLICATIONS

U.S. Appl. No. 15/588,266, filed Aug. 28, 2017, Gaskarimahalle.
 U.S. Appl. No. 15/853,400, filed Dec. 22, 2017, Kashani.
 U.S. Appl. No. 15/901,738, filed Feb. 21, 2018, Danesh.
 U.S. Appl. No. 15/947,065, filed Apr. 6, 2018, Danesh.
 U.S. Appl. No. 16/016,040, filed Jun. 22, 2018, Danesh.
 U.S. Appl. No. 16/200,393, filed Nov. 26, 2018, Danesh.
 U.S. Appl. No. 29/638,259, filed Feb. 26, 2018, Danesh.
 U.S. Appl. No. 29/541,565, filed Oct. 5, 2015, Peng.
 U.S. Appl. No. 29/645,941, filed Apr. 30, 2018, Danesh et al.
 U.S. Appl. No. 29/653,142, filed Jun. 11, 2018, Danesh et al.
 U.S. Appl. No. 29/664,471, filed Sep. 25, 2018, Danesh et al.
 U.S. Appl. No. 29/678,478, filed Jan. 29, 2019, Danesh et al.
 Non-Final Office Action dated Feb. 7, 2019 from U.S. Appl. No. 16/200,393, 32 pages.
 Non-Final Office Action dated Jul. 24, 2018 from U.S. Appl. No. 29/638,259, 5 pages.
 Notice of Allowance dated Feb. 8, 2019 from U.S. Appl. No. 29/541,565, 5 pages.
 Notice of Allowance dated Jan. 28, 2019 from U.S. Appl. No. 29/664,471, 8 pages.
 “Metallic and Non-metallic Outlet Boxes Used in Fire-rated Assembly,” <https://iaeimagazine.org/magazine/2000/09/16/metallic-and-non-metallic-outlet-boxes-used-in-fire-rated-assembly/>, Sep. 16, 2000, 5 pages.
 “Metallic Outlet Boxes,” UL 514A, Underwriters Laboratories, Inc., Feb. 16, 2004 (Title Page Reprinted Aug. 10, 2007), 106 pages.
 Bortz, J. C. et al., “Optimal design of a nonimaging TIR doublet lens for an illumination system using an LED source”, Proc. SPIE 5529, Nonimaging Optics and Efficient Illumination Systems, (Sep. 29, 2004); doi: 10.1117/12.562598; <https://doi.org/10.1117/12.562598>, 10 pages.

BXUV.GuidelInfo, Fire Resistance Ratings—ANSI/UL 263, UL Online Certifications Directory, last updated Nov. 3, 2016, 27 pages.
 Canadian Office Action dated Aug. 11, 2017 from Canadian Application No. 2,941,051, 4 pages.
 Canadian Office Action dated Dec. 23, 2013 from Canadian Application No. 2,778,581, 3 pages.
 Canadian Office Action dated Dec. 6, 2016 from Canadian Application No. 2,879,629, 3 pages.
 Canadian Office Action dated Feb. 1, 2016 from Canadian Application No. 2,879,486, 5 pages.
 Canadian Office Action dated Jun. 12, 2017 from Canadian Application No. 2,927,601, 4 pages.
 Canadian Office Action dated Mar. 22, 2016 from Canadian Application No. 2,879,629, 4 pages.
 Canadian Office Action dated Mar. 9, 2017 from Canadian Application No. 2,931,588, 5 pages.
 CEYY.GuidelInfo, Outlet Boxes and Fittings Certified for Fire Resistance, UL Online Certifications Directory, last updated May 16, 2013, 2 pages.
 Civil Action No. 2:18-cv-07090. Complaint For Infringement and Unfair Competition. *DMF, Inc. v. AMP Plus, Inc. d/b/a ELCO Lighting*. 52 pages. Dated Aug. 15, 2018.
 Cree LED Lamp Family Sales Sheet—Better light is beautiful light, Apr. 24, 2017, 2 pages.
 DME Series Installation Instructions, Oct. 18, 2011, 2 pages.
 DMF, Inc., “dmfLIGHTING: LED Recessed Downlighting,” DRD2 Product Brochure, Oct. 23, 2014, 50 pages.
 DMF, Inc., “dmfLIGHTING: LED Recessed Downlighting,” Product Catalog, Aug. 2012, 68 pages.
 DMF, Inc., “dmfLIGHTING: LED Recessed Lighting Solutions,” Info sheets, Mar. 15, 2012, 4 pages.
 Dross, O. et al., “Review of SMS design methods and real-world applications”, Proc. SPIE 5529, Nonimaging Optics and Efficient Illumination Systems, (Sep. 29, 2004); doi: 10.1117/12.561336; <https://doi.org/10.1117/12.561336>, 14 pages.
 Final Office Action dated Apr. 2, 2015 from U.S. Appl. No. 13/484,901, 13 pages.
 Final Office Action dated Apr. 27, 2016 from U.S. Appl. No. 14/184,601, 19 pages.
 Final Office Action dated Jan. 29, 2016 from U.S. Appl. No. 14/183,424, 21 pages.
 Final Office Action dated Jul. 26, 2017 from U.S. Appl. No. 14/184,601, 18 pages.
 Final Office Action dated Jun. 23, 2016 from U.S. Appl. No. 13/484,901, 18 pages.
 Halo, H7 LED Downlight Trims 49x Series, 6-inch LED Trims for Use with M17x LED Modules, Cooper Lighting, ADV110422, rev. Aug. 12, 2011, 15 pages.
 Halo, Halo LED H4 H7 Collection, SustainabLEDesign, Cooper Lighting, (emphasis on p. 18 “H7 Collection LED Modules—Halo LED H7 Module Features,”) Mar. 28, 2012, 52 pages.
 Halo, LED Module ML706x, Cooper Lighting, General Installation for All Modules/p. 1; Tether Installation/pp. 2-3; Installation into Halo H750x Series LED—only (Non-Screw Based), Recessed Fixture, p. 4, Oct. 20, 2009, 4 pages.
 International Search Report and Written Opinion in International Patent Application No. PCT/US18/39048 dated Dec. 14, 2018. 24 pages.
 International Search Report and Written Opinion in PCT/US2018/048357 dated Nov. 14, 2018, 13 pages.
 Medvedev, V. et al., “Uniform LED illuminator for miniature displays,” Proc. SPIE 3428, Illumination and Source Engineering, (Oct. 20, 1998); doi: 10.1117/12.327957; <https://doi.org/10.1117/12.327957>, 13 pages.
 Non-Final Office Action dated Apr. 12, 2018 for U.S. Appl. No. 29/638,259, 5 pages.
 Non-Final Office Action dated Apr. 30, 2010 from U.S. Appl. No. 12/173,232, 13 pages.
 Non-Final Office Action dated Dec. 15, 2016 from U.S. Appl. No. 14/184,601, 18 pages.
 Non-Final Office Action dated Dec. 5, 2018 from U.S. Appl. No. 14/942,937, 13 pages.

(56)

References Cited

OTHER PUBLICATIONS

- Non-Final Office Action dated Feb. 6, 2018 from U.S. Appl. No. 15/167,682, 9 pages.
- Non-Final Office Action dated Jul. 20, 2015 from U.S. Appl. No. 14/184,601, 16 pages.
- Non-Final Office Action dated Jun. 2, 2015 from U.S. Appl. No. 14/183,424, 20 pages.
- Non-Final Office Action dated Jun. 25, 2018 for U.S. Appl. No. 29/541,565, 10 pages.
- Non-Final Office Action dated Mar. 15, 2010 from U.S. Appl. No. 12/100,148, 8 pages.
- Non-Final Office Action dated May 16, 2018 for U.S. Appl. No. 15/132,875, 18 pages.
- Non-Final Office Action dated May 17, 2017 from U.S. Appl. No. 14/183,424, 20 pages.
- Non-Final Office Action dated Oct. 16, 2014 from U.S. Appl. No. 13/484,901, 11 pages.
- Non-Final Office Action dated Oct. 24, 2018 for U.S. Appl. No. 15/688,266, 14 pages.
- Non-Final Office Action dated Sep. 15, 2015 from U.S. Appl. No. 13/484,901, 16 pages.
- Non-Final Office Action dated Sep. 5, 2014 from U.S. Appl. No. 13/791,087, 8 pages.
- Non-Final Office Action dated Sep. 6, 2017 from U.S. Appl. No. 14/726,064, 8 pages.
- Notice of Allowance dated Aug. 23, 2017 from Canadian Application No. 2,879,629, 1 page.
- Notice of Allowance dated Jan. 16, 2015 from U.S. Appl. No. 29/467,026, 9 pages.
- Notice of Allowance dated Jan. 2, 2019 from U.S. Appl. No. 29/541,565, 6 pages.
- Notice of Allowance dated Jan. 30, 2015 from U.S. Appl. No. 13/791,087, 9 pages.
- Notice of Allowance dated Mar. 24, 2016 from U.S. Appl. No. 14/247,149, 8 pages.
- Notice of Allowance dated Mar. 26, 2018 for U.S. Appl. No. 14/184,601, 10 pages.
- Notice of Allowance dated May 10, 2018 from U.S. Appl. No. 14/726,064, 7 pages.
- Notice of Allowance dated May 22, 2018 from U.S. Appl. No. 14/183,424, 9 pages.
- Notice of Allowance dated Nov. 27, 2018 from U.S. Appl. No. 15/167,682, 11 pages.
- Notice of Allowance dated Oct. 21, 2016 from U.S. Appl. No. 13/484,901, 7 pages.
- Notice of Allowance dated Oct. 4, 2018 from U.S. Appl. No. 15/947,065, 9 pages.
- Notice of Allowance dated Oct. 9, 2018 from U.S. Appl. No. 29/653,142, 7 pages.
- Notice of Allowance dated Sep. 19, 2018 from U.S. Appl. No. 15/167,682, 7 pages.
- Notice of Allowance dated Sep. 21, 2018 from U.S. Appl. No. 29/645,941, 5 pages.
- OneFrame Recessed LED Downlight. Dmflighting.com. Published Jun. 6, 2018. Retrieved at <https://www.dmflighting.com/product/oneframe> on Jun. 6, 2018. 11 pages.
- RACO 4 in. Octagon Welded Concrete Ring, 3½ in. Deep with ½ and ¾ in. Knockouts and includes 890 cover (20-Pack). Model # 280. Accessed at <https://www.homedepot.com/p/RACO-4-in-Octagon-Welded-Concrete-Ring-3-1-2-in-Deep-with-1-2-and-3-4-in-Knockouts-and-cludes-890-cover-20-Pack-280/203638679> on Jan. 18, 2019. 3 pages.
- RACO 4 in. Octagon Welded Concrete Ring, 6 in. Deep with ½ and ¾ in. Knockouts (10-Pack). Model # 276. Accessed at <https://www.homedepot.com/p/RACO-4-in-Octagon-Welded-Concrete-Ring-6-in-Deep-with-1-2-and-3-4-in-Knockouts-10-Pack-276/203638675> on Jan. 16, 2019. 4 pages.
- Final Office Action dated Mar. 15, 2019 from U.S. Appl. No. 15/132,875, 15 pages.
- International Search Report and Written Opinion in International Patent Application No. PCT/US18/62868 dated Mar. 14, 2019, 13 pages.
- CS&E PCT Collaborative Search and Examination Pilot Upload Peer Contribution in International Patent Application No. PCT/US18/62868 dated Mar. 14, 2019, 61 pages.
- Notice of Allowance dated Apr. 1, 2019 from U.S. Appl. No. 15/167,682, 7 pages.
- Notice of Allowance dated Apr. 8, 2019 from U.S. Appl. No. 29/653,142, 8 pages.
- Notice of Allowance dated Apr. 17, 2019 from U.S. Appl. No. 29/678,478, 7 pages.
- International Search Report and Written Opinion in International Patent Application no. PCT/US18/67614 dated Apr. 25, 2019, 20 pages.
- CS&E PCT Collaborative Search and Examination Pilot Upload Peer Contribution in International Patent Application No. PCT/US18/67614 dated Apr. 24, 2019, 53 pages.
- Specification & Features 4" Octagonal Concrete Box Covers. Orbit Industries, Inc. Accessed at <https://www.orbitelectric.com> on May 6, 2019. 1 page.
- 4" Octagon Concrete Boxes and Back Plates. Appleton. Accessed at www.appletonelec.com on May 6, 2019. 1 page.
- Raco Commercial, Industrial and Residential Electrical Products. Hubbell. Accessed at www.Hubbell-RTB.com on May 6, 2019. 356 pages.
- Imtra Marine Lighting 2008 Catalog. 40 pages.
- Imtra Marine Lighting 2009 Catalog. 32 pages.
- Imtra Marine Lighting Spring 2007 Catalog. 36 pages.
- Final Office Action dated Jun. 6, 2019 from U.S. Appl. No. 15/688,266, 7 pages.
- Non-Final Office Action dated Jun. 11, 2019 from U.S. Appl. No. 15/901,738, 6 pages.
- Notice of Allowance dated Jun. 12, 2019 from U.S. Appl. No. 16/016,040, 8 pages.
- Cooper Lighting Halo ML56 LED System Product Sheet. Mar. 2, 2015. Accessed at http://www.cooperindustries.com/content/dam/public/lighting/products/documents/halo/spec_sheets/halo-m156600-80cri-141689-sss.pdf. 8 pages.
- Kwikbrace@ New Construction Braces for Lighting Fixtures or Ceiling Fans 1-1/2 in. Depth. Hubbell. Accessed at <https://hubbellcdn.com/specsheet/926.pdf> on Jun. 27, 2019. 1 page.
- IC1JB Housing 4" IC-Rated New Construction Junction Box Housing. AcuityBrands. Accessed at <https://www.acuitybrands.com/en/products/detail/845886/juno/ic1jb-housing/4-ic-rated-new-construction-junction-box-housing> on Jun. 27, 2019.
- Ex-Parte Quayle Action dated Jun. 27, 2019 from U.S. Appl. No. 29/683,730, 5 pages.
- Notice of Allowance dated Jul. 31, 2019 from U.S. Appl. No. 15/167,682, 7 pages.
- Supplemental Notice of Allowance dated Aug. 5, 2019 from U.S. Appl. No. 15/947,065, 2 pages.
- International Search Report and Written Opinion in International Patent Application No. PCT/US19/32281 dated Aug. 2, 2019, 18 pages.
- Notice of Allowance dated Sep. 11, 2019 from U.S. Appl. No. 29/653,142, 6 pages.
- Notice of Allowance dated Sep. 19, 2019 from U.S. Appl. No. 16/016,040, 7 pages.
- Corrected Notice of Allowance dated Sep. 27, 2019 from U.S. Appl. No. 15/167,682, 2 pages.
- Final Office Action dated Sep. 27, 2019 from U.S. Appl. No. 16/200,393, 34 pages.
- Notice of Allowance dated Feb. 15, 2019 from U.S. Appl. No. 15/947,065, 9 pages.
- Notice of Allowance dated Oct. 1, 2019 from U.S. Appl. No. 14/942,937, 7 pages.
- Delhi Rehab & Nursing Facility ELM16-70884. Vertex Innovative Solutions Feb. 25, 2016. 89 pages.
- SlimSurface surface mount downlighting. Philips Lightolier 2018. 8 pages.
- Be seen in the best light. Lightolier by signify. Comprehensive 2019 Lighting Catalog. 114 pages.

(56)

References Cited

OTHER PUBLICATIONS

Corrected Notice of Allowance dated Oct. 10, 2019 from U.S. Appl. No. 16/016,040, 2 pages.

Cree® LMR2 LED Module. Product Family Data Sheet Cree 2011. 3 pages.

Notice of Allowance dated Oct. 16, 2019 from U.S. Appl. No. 15/132,875, 12 pages.

International Search Report and Written Opinion in International Patent Application No. PCT/US2019/036477 dated Oct. 17, 2019, 15 pages.

ML56 LED Lighting System 600 / 900 / 1200 Series Halo. Cooper Lighting Brochure 2015. Accessed at <https://images.homedepot-static.com/catalog/pdfimages/06/06d28f93-4bf6-45be-a35a-a0239606f227.pdf>. 41 pages.

Switch and Outlet Boxes and Covers Brochure. Appelton 2010. 77 pages.

Non-Final Office Action dated Dec. 30, 2019 from U.S. Appl. No. 16/653,497, 8 pages.

Notice of Allowance dated Feb. 5, 2020 from U.S. Appl. No. 15/901,738, 8 pages.

Maxim Lighting Wafer Trifold Brochure LMXBRO1711 2017. Accessed at <https://www.maximlighting.com/Upload/download/brochure/pdf/LMXBRO1711.pdf> on Feb. 13, 2020. 2 pages.

Maxim Convert Fixture. LMXCAT1805 Maxim Main Catalog 2018 p. 639.

Maxim Wafer. LMXCAT1805 Maxim Main Catalog 2018 pgs. 636-638.

Maxim Lighting Trim Trifold LMXBRO1905 2019. Accessed at <https://www.maximlighting.com/Upload/download/brochure/pdf/LMXBRO1905.pdf> on Feb. 13, 2020. 2 pages.

International Search Report and Written Opinion in International Patent Application No. PCT/US2019/054220 dated Feb. 24, 2020, 23 pages.

Final Office Action dated Mar. 17, 2020 for U.S. Appl. No. 29/653,142, 13 pages.

LED Book Price Guide 2012. DMF Light. Issued Jun. 26, 2013. 3 pages.

DLER411 4" Recessed Led Retrofit Module. DMF Light. Issued Jun. 15, 2011. 1 page.

DLEI411 4" Recessed Led New Construction, IC. DMF Light. Issued Nov. 30, 2011. 1 page.

DLEIR411 4" Recessed LED Remodel, IC. DMF Light. Issued Jun. 15, 2011. 1 page.

3 & 4" DLE Series LED Sample Case Now Available. DMF Light. Issued Jan. 6, 2012. 1 page.

DLEI3 3" Recessed LED New Construction, IC. DMF Light. Issued Nov. 30, 2011. 2 pages.

Ridgway-Barnes, SlimSurface LED Downlight: One of the thinnest LED surface mount downlights in the market. Philips Lighting Blog. Oct. 28, 2014. Accessed at <http://applications.nam.lighting.philips.com/blog/index.php/2014/10/28/slimsurface-led-downlight-one-of-the-thinnest-led-surface-mount-downlights-in-the-market/>. 3 pages.

SlimSurface LED S5R, S7R & S10R Round 5", 7" and 10" Apertures. Lightolier by Signify. Nov. 2018. 9 pages.

Non-Final Office Action dated Apr. 2, 2020 for U.S. Appl. No. 16/522,275, 21 pages.

Petition for Inter Partes Review of U.S. Pat. No. 9,964,266 Pursuant to 37 C.F.R. § 42.100 et seq. AMP Plus Inc. dbd *ELCO Lighting v. DMF, Inc.*, IPR2019-01094 filed May 17, 2019. 108 pages.

IPR2019-01094 Exhibit 1005. Imtra 2011 Marine Lighting Catalog—Advanced LED Solutions (“Imtra 2011”). 40 pages.

IPR2019-01094 Exhibit 1006. Imtra 2007 Marine Lighting Catalog (“Imtra 2007”). 36 pages.

IPR2019-01094 Exhibit 1010. Illuminating Engineering Society ANSI RP-16-10, Nomenclature and Definitions for Illumination Engineering (approved as an American National Standard Jul. 15, 2005, approved by the IES Board of Directors Oct. 1, 2005). 4 pages.

IPR2019-01094 Exhibit 1011. Underwriters Laboratories Inc. Standard for Safety, Standard UL-8750, entitled Light Emitting Diode (LED) Equipment for Use in Lighting (1st ed. 2009). 5 pages.

IPR2019-01094 Exhibit 1013. Illuminating Engineering Society of North America, IES Lighting Handbook (John E. Kaufman and Howard Haynes eds., Application vol. 1981) (“Lighting Handbook”). 5 pages.

IPR2019-01094 Exhibit 1014. California Energy Commission, PIER Lighting Research Program: Project 2.3 Low-profile LED Luminaires Final Report (Prepared by Lighting Research Center, Jan. 2005) (“PIER LRP”). 70 pages.

IPR2019-01094 Exhibit 1015. Jim Sinopoli, Using DC Power to Save Energy and End the War on Currents, GreenBiz (Nov. 15, 2012), <https://www.greenbiz.com/news/2012/11/15/using-dc-power-save-energy-end-war-currents> (“Sinopoli”). 6 pages.

IPR2019-01094 Exhibit 1016. Robert W. Johnson, “Thought Leadership White Paper: AC Versus DC Power Distribution” (Nov. 2012) (“Johnson”). 10 pages.

IPR2019-01094 Exhibit 1017. Lumileds, Luxeon Rebel General Purpose Product Datasheet, Specification DS64 (2016) (“Luxeon Rebel”). 26 pages.

IPR2019-01094 Exhibit 1019. U.S. Department of Energy, CALiPER Benchmark Report: Performance of Incandescent A-Type and Decorative Lamps and LED Replacements (prepared by Pacific National Laboratory, Nov. 2008) (“CALiPER 2008”). 25 pages.

IPR2019-01094 Exhibit 1021. U.S. Department of Energy, CALiPER Application Summary Report 16: LED BR30 and R30 Lamps (prepared by Pacific Northwest National Laboratory, Jul. 2012) (“CALiPER 2012”). 26 pages.

IPR2019-01094 Exhibit 1022. Sandia National Laboratories, Sandia Report: “The Case for a National Research Program on Semiconductor Lighting” (Jul. 2000) (“Haitz”). 24 pages.

IPR2019-01094 Exhibit 1023. Sylvania, Post Top Street Light LED Retrofit Kit Specification, LED40POST (2009) (“Sylvania”). 4 pages.

IPR2019-01094 Exhibit 1024. Webster’s New Collegiate Dictionary (1973) (“Webster’s”). 2 pages.

IPR2019-01094 Exhibit 1025. 3M Wire Connectors and Tools Catalog 2013 (“3M Catalog”). 22 pages.

IPR2019-01094 Exhibit 1026. Wakefield Semiconductor Heat Sinks and Thermal Products 1974 Catalog (“Wakefield”). 3 pages.

IPR2019-01094 Exhibit 1027. U.S. Department of Energy, Solid-State Lighting Research and Development Portfolio: Multi-Year Program Plan FY’07-FY’12 (prepared by Navigant Consulting, Inc., Mar. 2006) (“DOE 2006”). 129 pages.

IPR2019-01094 Exhibit 1028. U.S. Department of Energy, Solid-State Lighting Research and Development: Multi-Year Program Plan (Apr. 2013) (“DOE 2013”). 89 pages.

Declaration of Colby Chevalier from Central District of California Civil Docket for Case #: 2:18-cv-07090-CAS-GJS filed Jun. 3, 2019, signed Jun. 3, 2019. 2 pages.

Docket Listing in Inter Partes Review of U.S. Pat. No. 9,964,266. Docket Navigator *AMP Plus, Inc. d/b/a Elco Lighting et al v. DMF, Inc.* PTAB-IPR2019-01094. Downloaded Mar. 25, 2020. 4 pages.

Petition for Inter Partes Review of U.S. Pat. No. 9,964,266 Pursuant to 37 C.F.R. § 42.100 et seq. *AMP Plus Inc. dbd Elco Lighting v. DMF, Inc.*, PTAB-IPR2019-01500 filed Aug. 14, 2019. 99 pages.

Docket Listing in Inter Partes Review of U.S. Pat. No. 9,964,266. *AMP Plus, Inc. d/b/a ELCO Lighting et al v. DMF, Inc.* PTAB-IPR2019-01500. Downloaded Mar. 25, 2020. 3 pages.

Docket Listing in Civil Action No. 2:18-cv-07090. *DMF, Inc. v. AMP Plus, Inc. d/b/a ELCO Lighting et al* CDCA-2-18-cv-07090. Downloaded on Mar. 25, 2020. 39 pages.

Civil Action No. 2:19-cv-4519. Complaint for Patent Infringement. *DMF, Inc. v. AMP Plus, Inc. d/b/a ELCO Lighting*. 52 pages dated May 22, 2019. 23 pages.

Docket Listing in Civil Action No. 2:19-cv-4519. *DMF Inc v. AMP Plus, Inc. d/b/a Elco Lighting et al* CDCA-2-19-cv-04519. Downloaded on Mar. 25, 2020. 3 pages.

Decision Denying Institution of Inter Partes Review of U.S. Pat. No. 9,964,266 in IPR2019-01500 dated Mar. 17, 2020. 21 pages.

Defendants’ Notice of Prior Art Pursuant to 35 U.S.C. § 282 in Civil Action No. 2:18-cv-07090-CAS-GJS dated Feb. 28, 2020. 7 pages.

(56)

References Cited

OTHER PUBLICATIONS

Defendant AMP Plus, Inc.'s Opposition to DMF's Motion for Summary Judgment in Civil Action No. 2:18-cv-07090-CAS-GJS filed Feb. 10, 2020. 32 pages.

Declaration of Eric Bretschneider, Ph.D in Support of AMP Plus, Inc.'s Opposition to DMF, Inc.'s Motion for Partial Summary Judgment in Civil Action No. 2:18-cv-07090-CAS-GJS filed Feb. 10, 2020. 210 pages.

Plaintiff DMF's Reply in Support of Motion for Partial Summary Judgment in Civil Action No. 2:18-cv-07090-CAS-GJS filed Feb. 18, 2020. 33 pages.

Declaration of James R. Benya in Support of Plaintiff DMF's Motion for Summary Judgment in Civil Action No. 2:18-cv-07090-CAS-GJS filed Feb. 3, 2020. 193 pages.

Underwriters Laboratories Inc. Standard for Safely. UL 1598. Luminaires Jan. 11, 2020. 12 pages.

Exceptional LED Lighting Technology Product Portfolio. LightingScience 2012. 11 pages.

"Cree LMH2 LED Modules," Mouser Electronics. Sep. 9, 2012. 4 pages.

Slim Line Disc. Eye LEDs Specification Sheet 2012. 2 pages.

HiBay LED Heat Sink. Wakefield-vette. Dec. 11, 2017. 1 pages.

Thermal Management of Cree® XLamp® LEDs. Cree Application Note. 2004. 19 pages.

Imtra Marine Lighting Fall 2007 Catalog. 32 pages.

"Advanced LED Solutions," Imtra Marine Lighting. Jun. 17, 2011. 39 pages.

"Cree LMH2 LED Module with TrueWhite Technology," Cree Product Family Data Sheet. Dec. 21, 2011. 3 pages.

"Cree LMH2 LED Modules Design Guide," Cree Product Design Guide. 2011. 20 pages.

"Cree LMH2 LED Modules," Mouser Electronics. Accessed at www.mouser.com/new/cree/creelmh2 on Sep. 9, 2012. 2 pages.

"LED Undercabinet Pocket Guide," ELCO Lighting. Nov. 2, 2016. 12 pages.

"Membrane Penetrations in Fire-Resistance Rated Walls," https://www.ul.com/wp-content/uploads/2014/04/ul_MembranePenetrations.pdf, Issue 1, 2009, published Feb. 26, 2010, 2 pages.

"Outlet Boxes for Use in Fire Rated Assemblies," https://www.ul.com/wp-content/uploads/2014/04/UL_outletboxes.pdf, Apr. 2007, 2 pages.

"Portland Bi-Color, Warm White/Red," item:ILIM30941. Imtra Marine Products. 2012. 3 pages. Accessed at <http://www.imtra.com:80/0ade25fb-3218-4cae-a926-6abe64ffd93a/lighting-light-fixtures-downlights-3-to-4-inches-detail.htm> on Jan. 25, 2013.

"Undercabinet Pucks, Xyris Mini LED Puck Light," ELCO Lighting. Sep. 2018. 1 page.

"Versi LED Mini Flush," Lithonia Lighting. Sep. 2013. 6 pages.

<<https://www.zhagastandard.org/books/book18/>>, Mar. 2017, 5 pages. Accessed on May 14, 2018.

2006 International Building Code, Section 712 Penetrations, Jan. 2006, 4 pages.

Acrich COB Zhaga Module, Product Description, Seoul Semiconductor, Nov. 11, 2016, 39 pages.

Carlson® Zip Box® Blue™ Switch and Outlet Boxes, Product Brochure, <http://www.carlonsales.com/brochures.php>, Jun. 20, 2006, 22 pages.

* cited by examiner

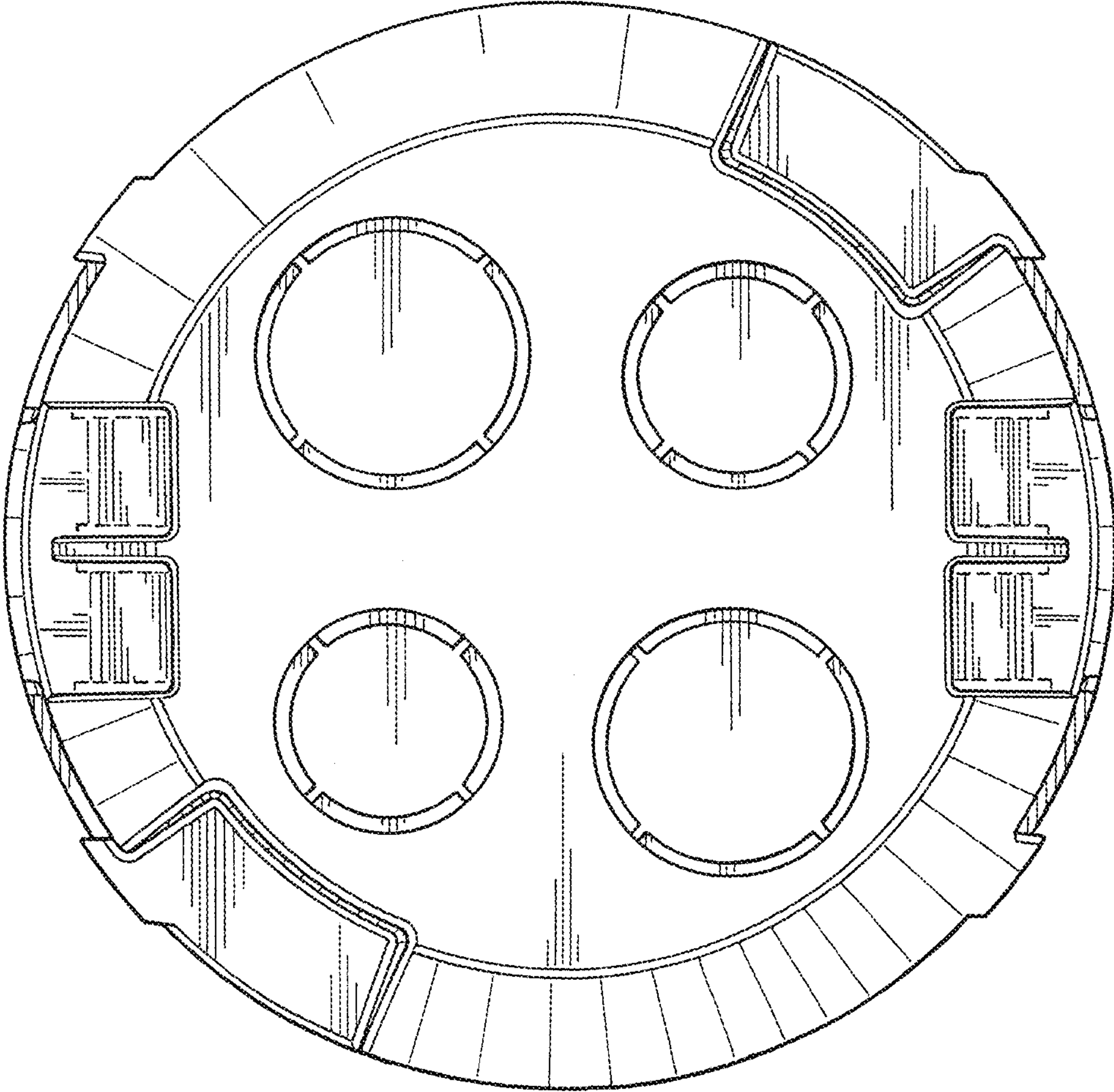


FIG. 1

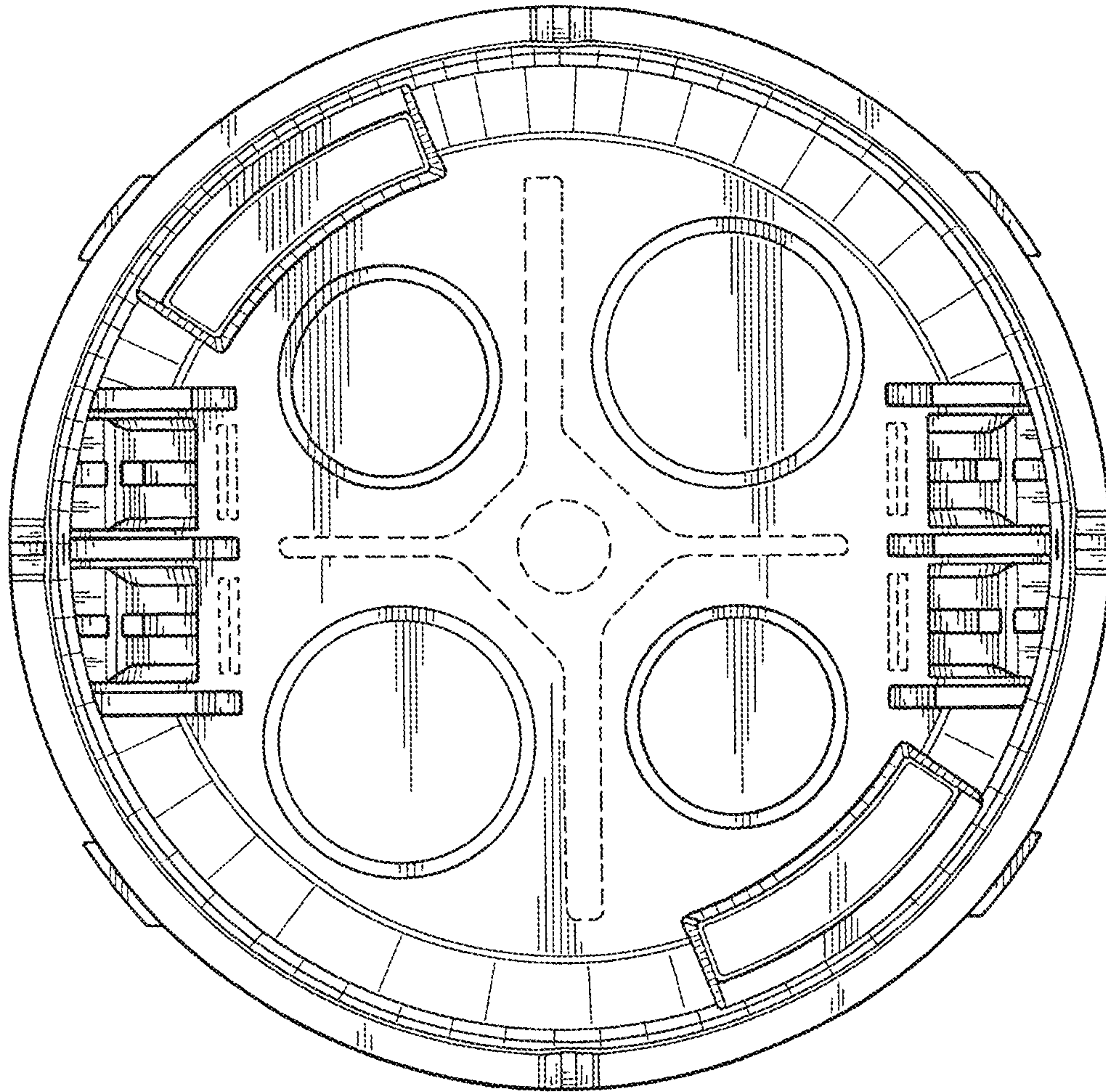


FIG. 2

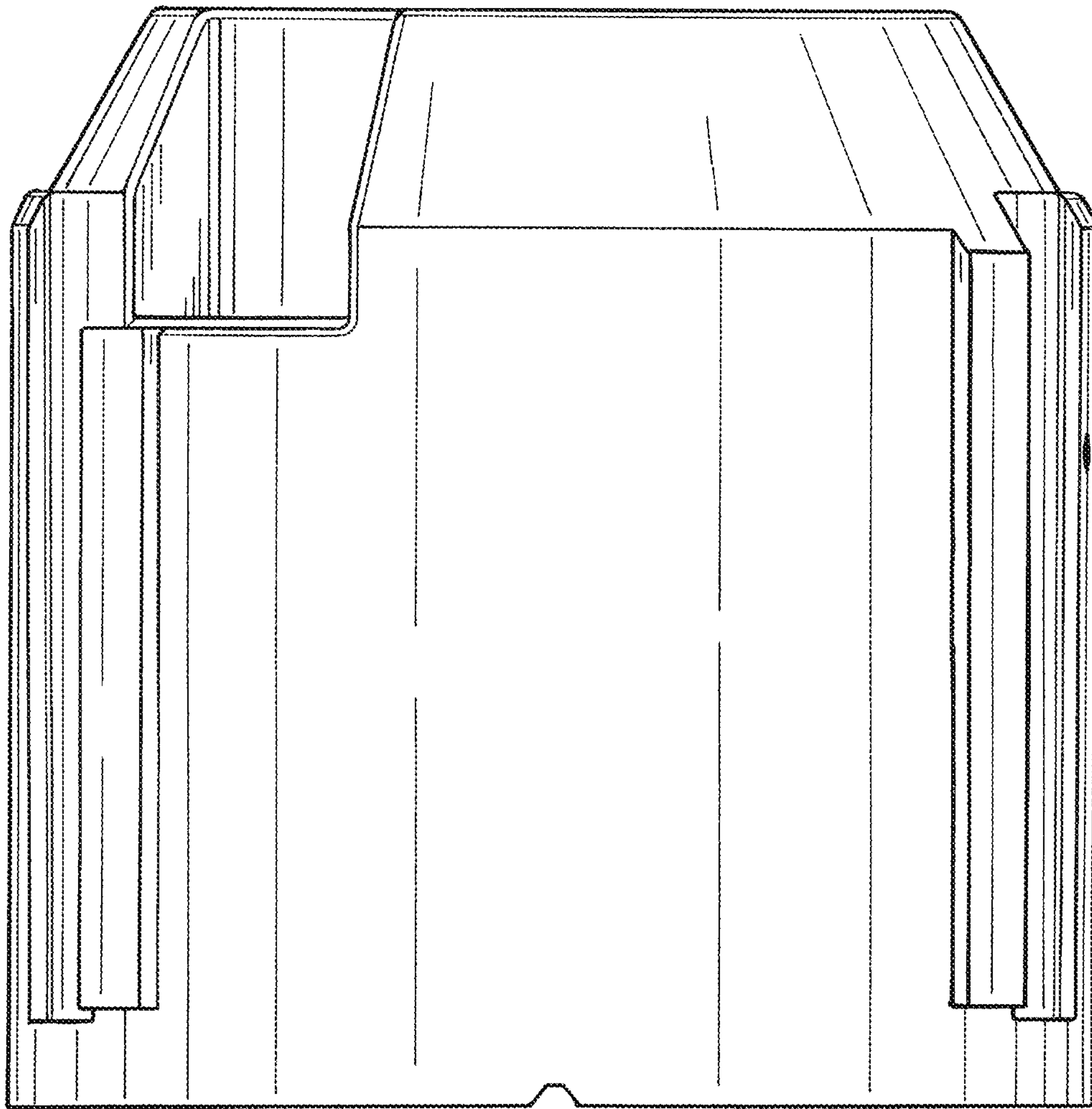


FIG. 3

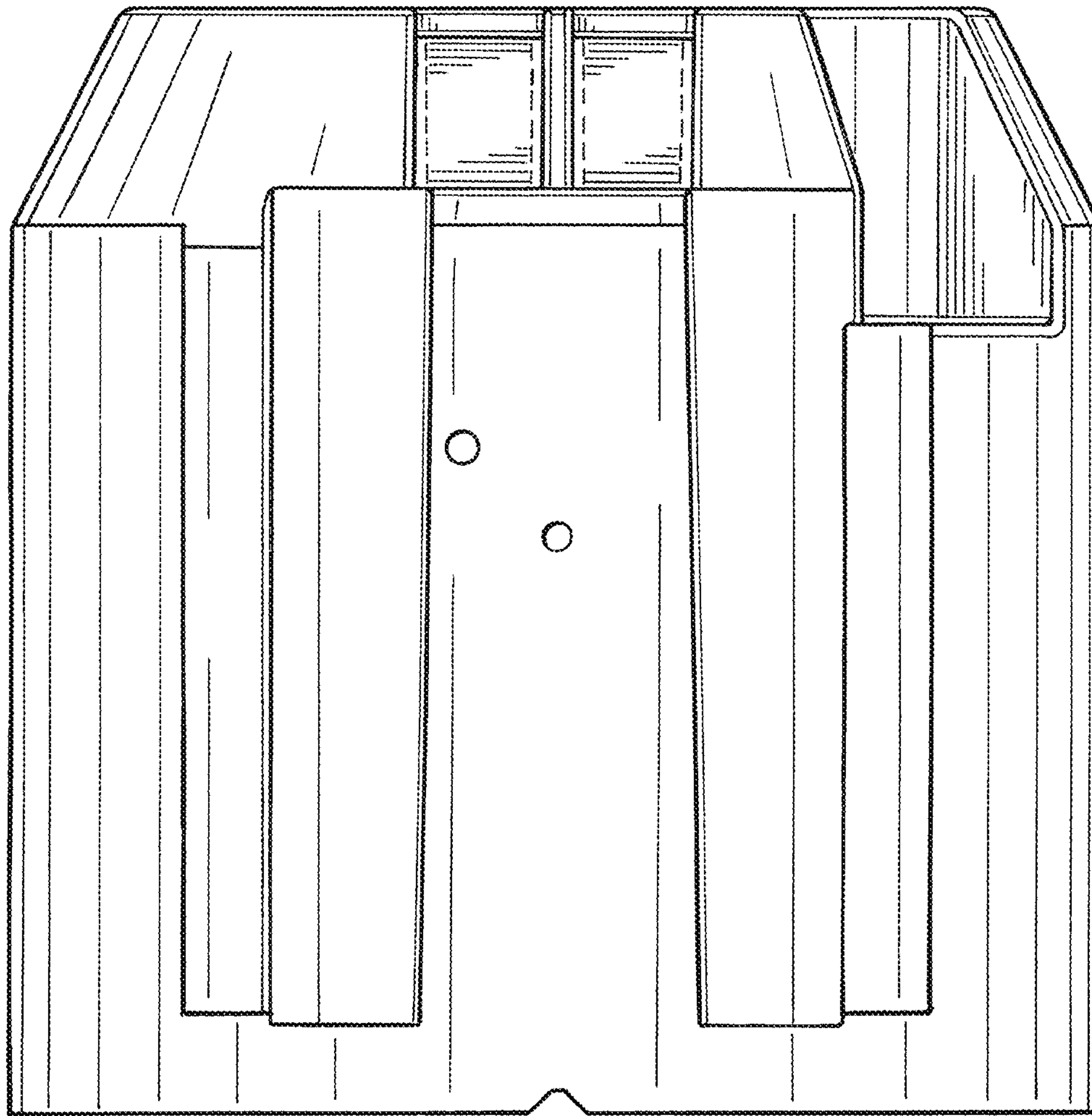


FIG. 4

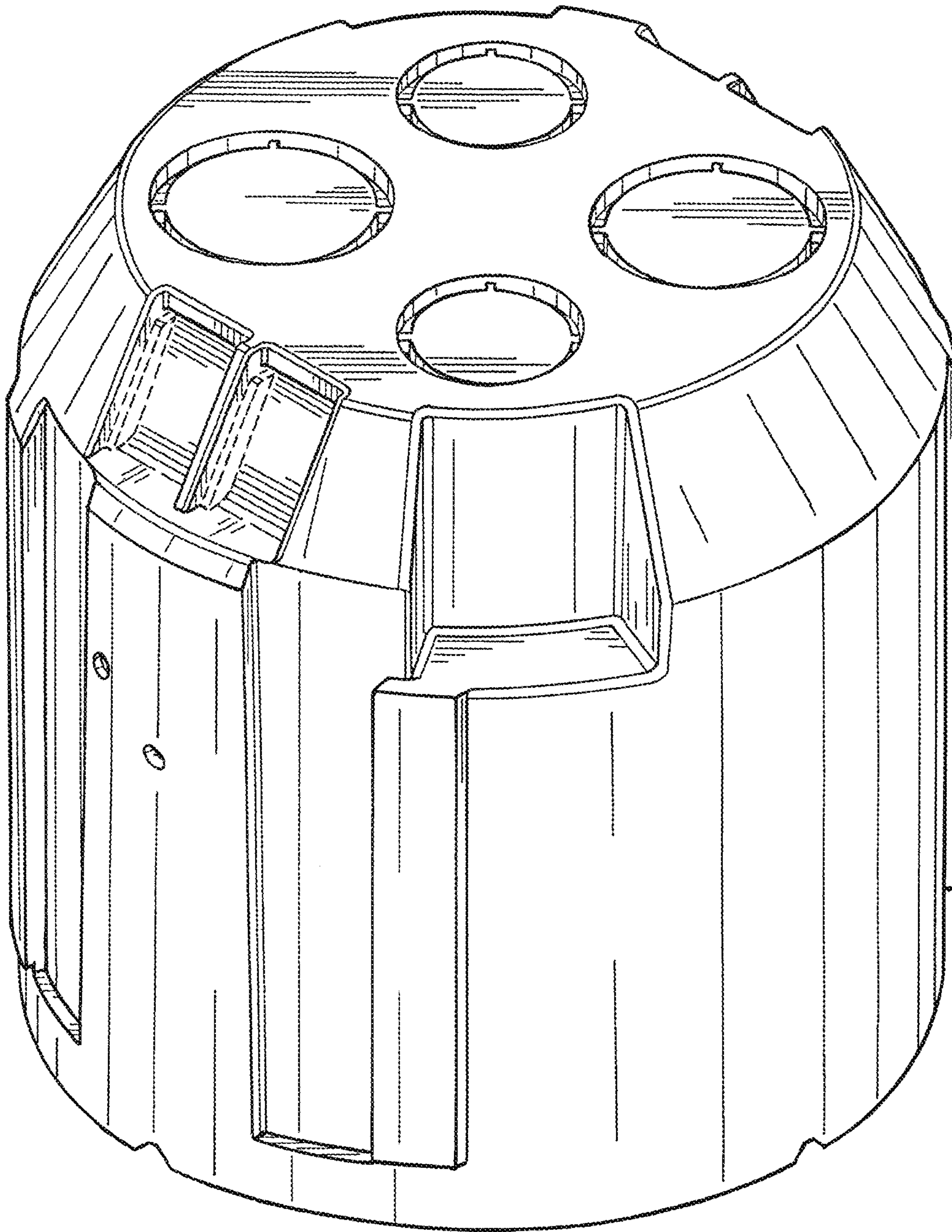


FIG. 5

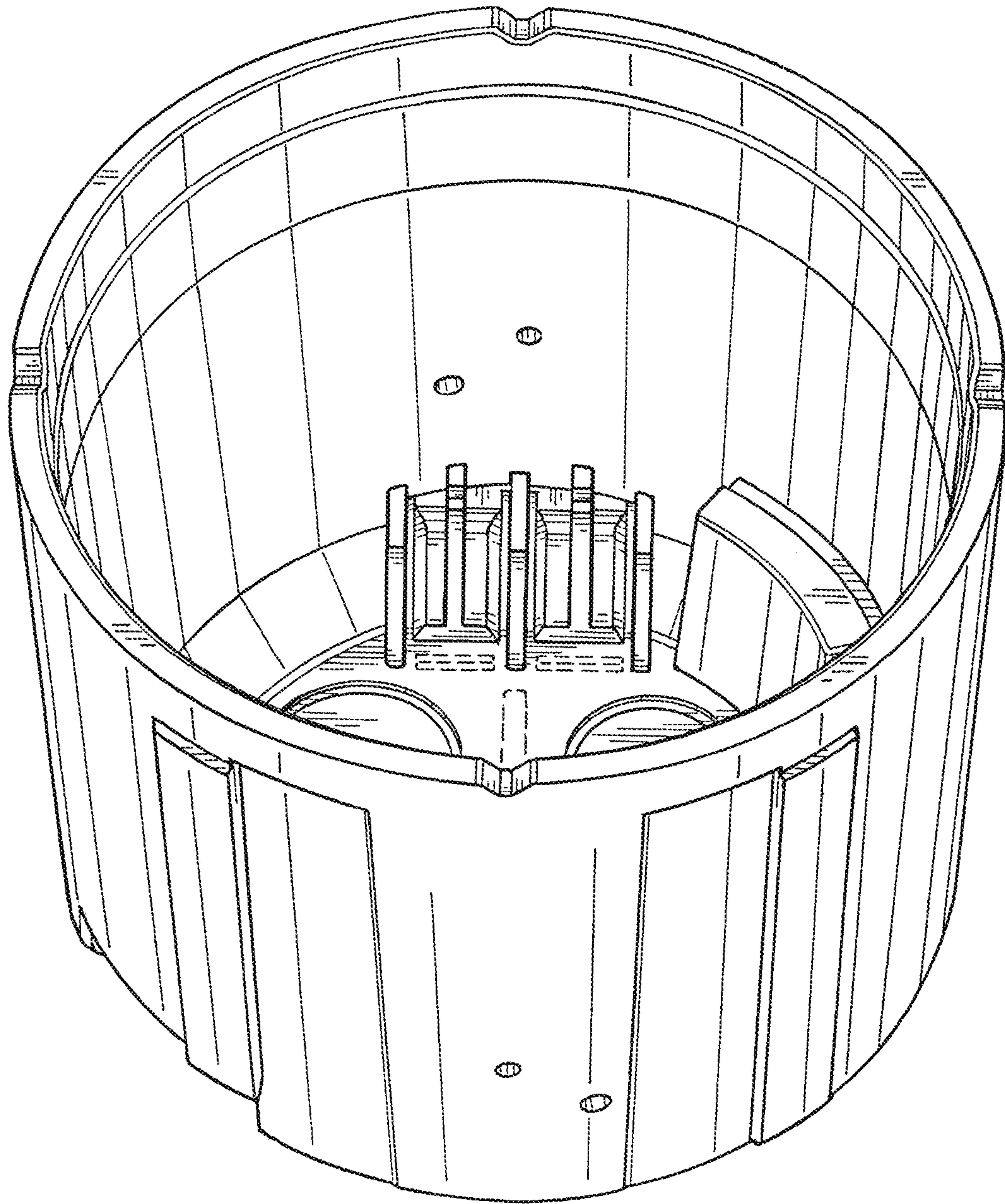


FIG. 6