



US00D899577S

(12) **United States Design Patent** (10) **Patent No.:** **US D899,577 S**
Daniels (45) **Date of Patent:** **** *Oct. 20, 2020**

(54) **ROOF VENT ASSEMBLY**

(56) **References Cited**

(71) Applicant: **Gregory S. Daniels**, Santa Rosa, CA (US)

U.S. PATENT DOCUMENTS

(72) Inventor: **Gregory S. Daniels**, Santa Rosa, CA (US)

D30,059 S	1/1899	Tracy
2,299,317 A	10/1942	Fink
D134,477 S	12/1942	Leslie
2,551,223 A	5/1951	Schneider
2,638,835 A	5/1953	Strawsine
2,692,548 A	10/1954	Knorr
2,733,649 A	2/1956	Le Barron
3,027,090 A	3/1962	Zerhan, Jr.
3,083,633 A	4/1963	Hochberg
D204,715 S	5/1966	Martin
3,376,164 A	4/1968	Bachwansky
3,459,597 A	8/1969	Baron
D215,940 S	11/1969	Kahn
D217,610 S	5/1970	Rudolf
3,553,030 A	1/1971	Lebrun
3,658,596 A	4/1972	Osborne
3,769,091 A	10/1973	Leinkram et al.
3,888,697 A	6/1975	Bogus et al.
3,895,467 A	7/1975	Clement
3,942,422 A	3/1976	Kawai
3,951,336 A	4/1976	Miller et al.
4,040,867 A	8/1977	Forestieri et al.
4,051,999 A	10/1977	Granger et al.
D247,510 S	3/1978	Kujawa, Jr.
4,083,097 A	4/1978	Anagnostou et al.
4,097,308 A	6/1978	Klein et al.
D249,158 S	8/1978	Morrow
4,108,580 A	8/1978	Felter
4,189,881 A	2/1980	Hawley
D254,442 S	3/1980	Cervone
4,201,121 A	5/1980	Brandenburg, Jr.
4,224,081 A	9/1980	Kawanura et al.
4,228,729 A	10/1980	Messick
4,239,555 A	12/1980	Scharkack et al.
4,251,026 A	2/1981	Siegel et al.
D259,138 S	5/1981	Giles
D261,803 S	11/1981	Bohanon, Jr.
4,314,548 A	2/1982	Hanson
4,382,435 A	5/1983	Brill-Edwards
4,383,129 A	5/1983	Gupta et al.
4,404,958 A	9/1983	Boettcher
4,418,685 A	12/1983	Frazier
4,432,273 A	2/1984	Devitt
4,433,200 A	2/1984	Jester et al.
4,441,651 A	4/1984	Dill
D276,261 S	11/1984	Shaftner
4,485,264 A	11/1984	Izu et al.
4,498,267 A	2/1985	Beck
4,501,194 A	2/1985	Brown

(*) Notice: This patent is subject to a terminal disclaimer.

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

(21) Appl. No.: **29/653,553**

(22) Filed: **Jun. 15, 2018**

Related U.S. Application Data

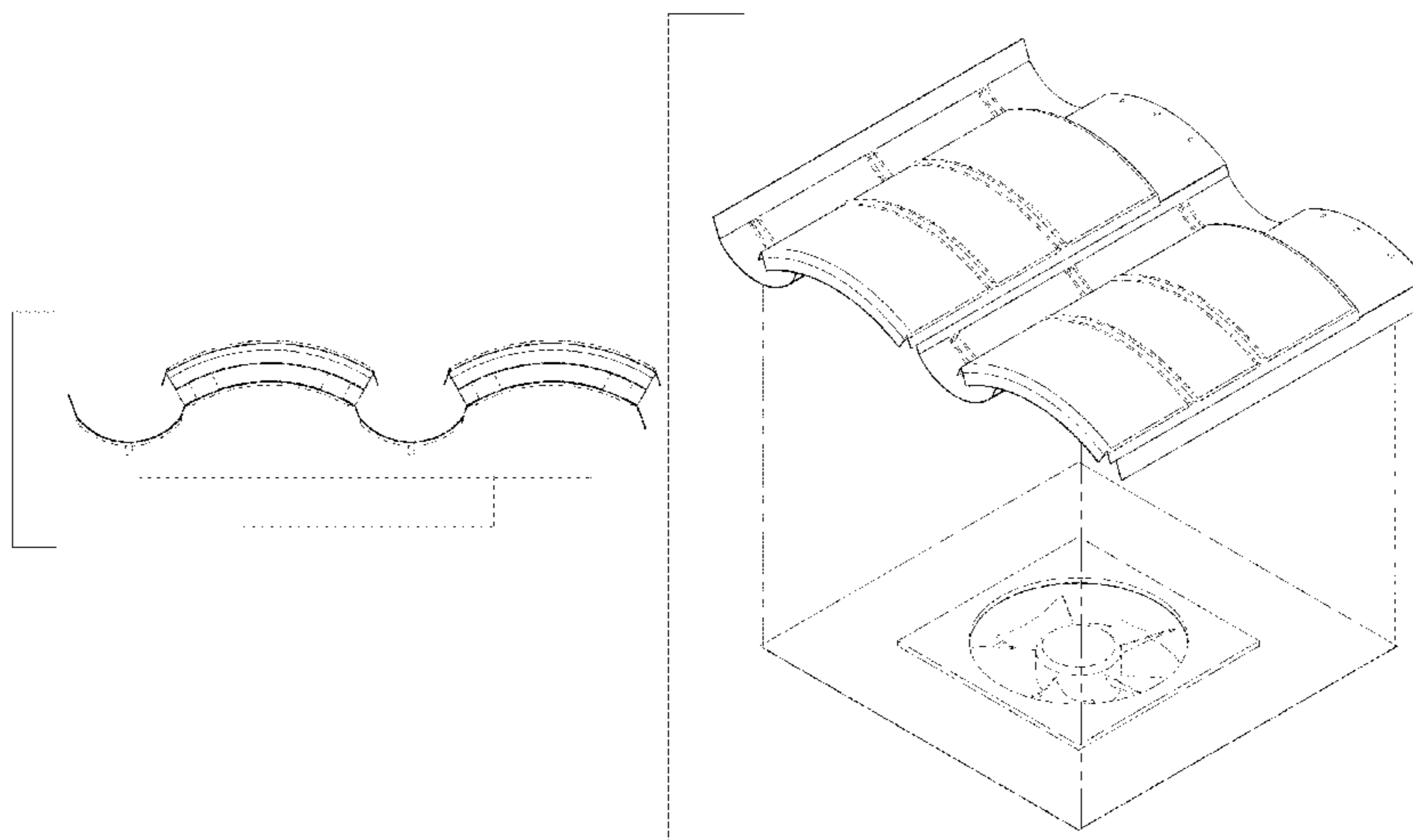
(60) Continuation of application No. 29/606,301, filed on Jun. 2, 2017, now Pat. No. Des. 820,968, which is a continuation of application No. 29/549,151, filed on Dec. 18, 2015, now Pat. No. Des. 788,902, which is a division of application No. 29/500,928, filed on Aug. 29, 2014, now Pat. No. Des. 748,239, which is a continuation-in-part of application No. 29/484,168, filed on Mar. 6, 2014, now Pat. No. Des. 755,944.

(51) **LOC (12) Cl.** **23-04**

(52) **U.S. Cl.**
USPC **D23/373**

(58) **Field of Classification Search**
USPC D23/370-376, 349, 353-364, 386-393, D23/411, 499; D26/59, 72, 118; D14/230; D13/102, 156; D25/143
CPC .. E04D 1/30; E04D 1/36; E04D 13/00; E04D 13/008; E04D 13/17; E04D 13/174; E04D 13/176; E04D 13/178; F24F 7/02; F24F 7/025; F24F 11/0001; F24F 11/001; F24F 11/0012; F24J 2/4609; F24J 2/5247; H02S 20/23; H02S 20/25

See application file for complete search history.



US D899,577 S

4,510,851 A	4/1985	Sarnosky et al.	5,968,287 A	10/1999	Nath	
4,574,160 A	3/1986	Cull et al.	5,990,414 A	11/1999	Posnansky	
4,594,940 A	6/1986	Wolbrink et al.	6,005,236 A	12/1999	Phelan et al.	
4,602,739 A	6/1986	Sutton, Jr.	6,008,450 A	12/1999	Ohtsuka et al.	
D285,829 S	9/1986	Lock	6,036,102 A	3/2000	Pearson	
4,625,469 A	12/1986	Gentry et al.	6,050,039 A	4/2000	O'Hagin	
4,633,769 A	1/1987	Milks	6,051,774 A	4/2000	Yoshida et al.	
4,651,805 A	3/1987	Bergeron, Jr.	D424,186 S	5/2000	Dodson	
4,677,903 A	7/1987	Mathews, III	D424,672 S	5/2000	Nanjo	
4,692,557 A	9/1987	Samuelson et al.	6,057,769 A	5/2000	Stevenson	
4,759,272 A	7/1988	Zaniewski	6,061,977 A	5/2000	Toyama et al.	
4,803,816 A	2/1989	Klober	6,061,978 A	5/2000	Dinwoodie et al.	
4,830,791 A	5/1989	Muderlak	6,077,159 A	6/2000	Clayton	
4,843,794 A	7/1989	Holtgreve	6,105,317 A	8/2000	Tomiuchi et al.	
4,850,166 A	7/1989	Taylor	6,129,628 A	10/2000	O'Hagin et al.	
4,860,509 A	8/1989	Laaly et al.	6,155,006 A	12/2000	Mimura et al.	
4,965,971 A	10/1990	Jean-Jacques et al.	6,220,956 B1	4/2001	Kilian et al.	
4,977,818 A	12/1990	Taylor et al.	D442,273 S	5/2001	Pestell	
4,986,469 A	1/1991	Sutton, Jr.	6,241,602 B1	6/2001	Allen	
D318,109 S	7/1991	Sullivan et al.	6,242,685 B1	6/2001	Mizukami et al.	
5,048,255 A	9/1991	Gonzales	6,243,995 B1	6/2001	Reeves et al.	
5,049,801 A	9/1991	Potter	D444,869 S	7/2001	Yip	
5,060,444 A	10/1991	Paquette	6,294,724 B1	9/2001	Sasaoka et al.	
5,070,771 A	12/1991	Mankowski	6,306,030 B1	10/2001	Wilson	
5,078,047 A	1/1992	Wimberly	D450,378 S	11/2001	Minakuchi	
5,092,939 A	3/1992	Nath et al.	6,311,436 B1	11/2001	Mimura et al.	
5,094,697 A	3/1992	Takabayashi et al.	6,336,304 B1	1/2002	Mimura et al.	
5,121,583 A	6/1992	Hirai et al.	6,340,403 B1	1/2002	Carey et al.	
5,131,200 A	7/1992	McKinnon	6,354,051 B1 *	3/2002	O'Hagin	E04D 1/30
5,131,888 A	7/1992	Adkins, II				454/242
5,133,810 A	7/1992	Morizane et al.	6,365,824 B1	4/2002	Nakazima et al.	
D332,139 S	12/1992	Courchesne	6,380,477 B1	4/2002	Curtin	
5,176,758 A	1/1993	Nath et al.	D457,234 S	5/2002	O'Hagin et al.	
5,228,925 A	7/1993	Nath et al.	D458,391 S	6/2002	O'Hagin et al.	
5,232,518 A	8/1993	Nath et al.	D458,392 S	6/2002	O'Haqin et al.	
5,238,519 A	8/1993	Nath et al.	6,415,559 B1	7/2002	Reeves et al.	
D342,129 S	12/1993	Goetz et al.	6,418,678 B2	7/2002	Rotter	
5,273,608 A	12/1993	Nath	6,439,466 B2	8/2002	Fikes	
5,296,043 A	3/1994	Kawakami et al.	6,447,390 B1	9/2002	O'Hagin	
5,316,592 A	5/1994	Dinwoodie	6,453,629 B1	9/2002	Nakazima et al.	
5,326,318 A	7/1994	Rotter	6,459,032 B1	10/2002	Luch	
5,333,783 A	8/1994	Catan	6,491,579 B1	12/2002	O'Hagin	
5,364,026 A	11/1994	Kundert	6,501,013 B1	12/2002	Dinwoodie	
5,385,848 A	1/1995	Grimmer	6,541,693 B2	4/2003	Takada et al.	
5,391,235 A	2/1995	Inoue	6,553,729 B1	4/2003	Nath et al.	
5,409,549 A	4/1995	Mori	6,606,830 B2	8/2003	Nagao et al.	
5,419,781 A	5/1995	Hamakawa et al.	D479,885 S	9/2003	O'Hagin et al.	
5,437,735 A	8/1995	Younan et al.	6,695,692 B1	2/2004	York	
5,480,494 A	1/1996	Inoue	D489,834 S	5/2004	Weston	
5,486,238 A	1/1996	Nakagawa et al.	6,729,081 B2	5/2004	Nath et al.	
5,505,788 A	4/1996	Dinwoodie	6,730,841 B2	5/2004	Heckerroth	
5,528,229 A	6/1996	Mehta	6,767,762 B2	7/2004	Guha	
5,549,513 A	8/1996	Thomas et al.	6,799,742 B2	10/2004	Nakamura et al.	
D374,927 S	10/1996	Chabot et al.	D503,156 S	3/2005	Provenzano	
5,575,861 A	11/1996	Younan et al.	6,870,087 B1	3/2005	Gallagher	
5,591,080 A	1/1997	Ward	D503,790 S	4/2005	Dodge et al.	
5,602,457 A	2/1997	Anderson et al.	D504,172 S	4/2005	O'Hagin	
5,620,368 A	4/1997	Bates et al.	6,875,914 B2	4/2005	Guha et al.	
5,636,481 A	6/1997	De Zen	D505,195 S	5/2005	Snyder	
D380,823 S	7/1997	LaZar	6,928,775 B2	8/2005	Banister	
5,651,226 A	7/1997	Archibald	6,941,706 B2	9/2005	Austin et al.	
5,672,101 A	9/1997	Thomas	D512,774 S	12/2005	O'Hagin et al.	
5,697,192 A	12/1997	Inoue	D518,158 S	3/2006	Cho et al.	
5,697,842 A	12/1997	Donnelly	D519,219 S	4/2006	Dodge et al.	
5,706,617 A	1/1998	Hirai et al.	D520,149 S	5/2006	Dodge et al.	
5,722,887 A	3/1998	Wolfson et al.	7,044,852 B2	5/2006	Horton	
5,738,581 A	4/1998	Rickert et al.	7,053,294 B2	5/2006	Tuttle et al.	
5,740,636 A	4/1998	Archard	7,097,557 B2	8/2006	Kutschman	
5,746,653 A	5/1998	Palmer et al.	D527,813 S	9/2006	Dodge et al.	
5,746,839 A	5/1998	Dinwoodie	D527,836 S	9/2006	O'Hagin	
5,766,071 A	6/1998	Kirkwood	7,101,279 B2	9/2006	O'Hagin et al.	
D397,431 S	8/1998	Meyer	D536,778 S	2/2007	O'Hagin	
5,800,631 A	9/1998	Yamada et al.	D537,519 S	2/2007	Sigillo	
5,816,909 A	10/1998	Wunder	7,176,543 B2	2/2007	Beernink	
D403,755 S	1/1999	Liang	7,178,295 B2	2/2007	Dinwoodie	
5,879,232 A	3/1999	Luter, II et al.	D538,422 S	3/2007	Hooijaaaijers et al.	
D408,514 S	4/1999	Hornig	7,250,000 B2	7/2007	Daniels, II	
5,890,322 A	4/1999	Fears	D549,316 S	8/2007	O'Hagin et al.	
D409,741 S	5/1999	Yuen-Ming	D555,237 S	11/2007	O'Hagin	

US D899,577 S

7,320,774 B2	1/2008	Simmons et al.	2001/0040201 A1	11/2001	Paxton	
D562,440 S	2/2008	Negrao et al.	2002/0036010 A1	3/2002	Yamawaki et al.	
D562,993 S	2/2008	Shepherd et al.	2002/0104562 A1	8/2002	Emoto et al.	
7,365,266 B2	4/2008	Heckeroth	2003/0000158 A1	1/2003	Borges	
D578,633 S	10/2008	Schluter et al.	2003/0159802 A1	8/2003	Steneby et al.	
D579,096 S	10/2008	Guzorek	2004/0031219 A1	2/2004	Banister	
D580,542 S	11/2008	Miyake	2004/0098932 A1	5/2004	Broatch	
D582,905 S	12/2008	Takisawa et al.	2005/0074915 A1	4/2005	Tuttle et al.	
7,469,508 B2	12/2008	Ceria	2005/0127379 A1	6/2005	Nakata	
7,470,179 B1	12/2008	Ritter et al.	2005/0130581 A1	6/2005	Dodge	
D588,255 S	3/2009	Daniels	2005/0144963 A1	7/2005	Peterson et al.	
D588,256 S	3/2009	Daniels	2005/0176270 A1	8/2005	Luch	
D589,134 S	3/2009	O'Hagin et al.	2005/0178429 A1	8/2005	McCaskill et al.	
7,497,774 B2	3/2009	Stevenson et al.	2005/0191957 A1	9/2005	Demetry et al.	
7,506,477 B2	3/2009	Flaherty et al.	2005/0233691 A1	10/2005	Horton	
7,507,151 B1	3/2009	Parker et al.	2005/0239393 A1	10/2005	Reese	
7,509,775 B2	3/2009	Flaherty et al.	2005/0239394 A1	10/2005	O'Hagin	
7,517,465 B2	4/2009	Guha et al.	2005/0263178 A1	12/2005	Montello et al.	
7,531,740 B2	4/2009	Flaherty et al.	2005/0263179 A1	12/2005	Gaudiana et al.	
D593,193 S	5/2009	Jackson	2005/0263180 A1	12/2005	Montello et al.	
D595,402 S	6/2009	Miyake	2005/0274408 A1	12/2005	Li et al.	
7,578,102 B2	8/2009	Banister	2006/0017154 A1	1/2006	Eguchi et al.	
D601,237 S	9/2009	Nishio et al.	2006/0032527 A1	2/2006	Stevens et al.	
7,587,864 B2	9/2009	McCaskill et al.	2006/0052047 A1	3/2006	Daniels, II	
7,618,310 B2	11/2009	Daniels	2006/0052051 A1	3/2006	Daniels	
7,642,449 B2	1/2010	Korman et al.	2006/0086384 A1	4/2006	Nakata	
D610,245 S	2/2010	Daniels	2006/0124827 A1	6/2006	Janus et al.	
D612,040 S	3/2010	Daniels	2006/0199527 A1	9/2006	Peters	
7,678,990 B2	3/2010	McCaskill et al.	2006/0223437 A1	10/2006	O'Hagin	
D618,780 S	6/2010	Williams, Sr.	2007/0049190 A1	3/2007	Singh	
7,736,940 B2	6/2010	Basol	2007/0066216 A1	3/2007	McIntire	
7,757,440 B2	7/2010	Austin et al.	2007/0067063 A1	3/2007	Ahmed	
D625,800 S	10/2010	Daniels	2007/0072541 A1	3/2007	Daniels et al.	
7,901,278 B2	3/2011	O'Hagin	2007/0084501 A1	4/2007	Kalberlah et al.	
8,079,898 B1	12/2011	Stevenson	2007/0094953 A1	5/2007	Galeazzo et al.	
D654,161 S	2/2012	Holland et al.	2007/0173191 A1	7/2007	Daniels, II	
8,167,216 B2	5/2012	Schultz et al.	2007/0178827 A1	8/2007	Erni	
8,186,111 B2 *	5/2012	Flaherty	2007/0184775 A1	8/2007	Perkins	
		E04D 1/30	2007/0207725 A1	9/2007	O'Hagin	
		52/173.3	2007/0243820 A1 *	10/2007	O'Hagin	F24F 7/025
8,292,707 B2	10/2012	Grisham et al.				454/365
8,316,592 B2	11/2012	Lanza				
D685,112 S	6/2013	Henriquez	2007/0246095 A1	10/2007	Schaefer	
D685,113 S	6/2013	Henriquez	2008/0040990 A1	2/2008	Vendig et al.	
8,479,458 B2	7/2013	Morita et al.	2008/0098672 A1 *	5/2008	O'Hagin	E04D 1/30
8,535,128 B2	9/2013	Chwala				52/173.3
D696,392 S	12/2013	Funnell, II	2008/0163576 A1	7/2008	Oaten	
8,607,510 B2	12/2013	Daniels	2008/0220714 A1	9/2008	Caruso et al.	
8,608,533 B2	12/2013	Daniels	2008/0287053 A1	11/2008	Carlson et al.	
D702,827 S	4/2014	Mase et al.	2008/0287054 A1	11/2008	Carlson et al.	
D703,305 S	4/2014	Stollenwerk O'Hagin	2008/0299892 A1	12/2008	Robinson	
8,701,360 B2	4/2014	Ressler	2009/0203308 A1	8/2009	O'Hagin et al.	
8,740,678 B2	6/2014	Railkar et al.	2009/0253368 A1	10/2009	Rotter	
8,776,455 B2	7/2014	Azoulay	2009/0286463 A1	11/2009	Daniels	
8,782,967 B2	7/2014	Daniels	2009/0311959 A1	12/2009	Shepherd	
8,793,943 B2	8/2014	Daniels	2010/0064605 A1	3/2010	Corvaglia et al.	
D713,953 S	9/2014	Jepson	2010/0068985 A1	3/2010	Park	
D719,253 S	12/2014	Francescon	2010/0229940 A1	9/2010	Basol	
9,011,221 B2	4/2015	Daniels	2010/0287852 A1	11/2010	Bortoletto	
9,074,781 B2 *	7/2015	Daniels	2010/0300128 A1	12/2010	Chen	F24F 7/025
9,121,619 B2	9/2015	Potter	2010/0330898 A1	12/2010	Daniels	
D748,239 S	1/2016	Daniels	2011/0294412 A1	12/2011	Vagedes	
D755,944 S	5/2016	Daniels	2012/0110924 A1	5/2012	Makin	
9,394,693 B2 *	7/2016	Daniels	2012/0151856 A1	6/2012	Azoulay	E04D 1/30
D766,413 S	9/2016	Zhou et al.	2012/0178357 A1	7/2012	Rheaume	
D768,276 S	10/2016	Kim et al.	2012/0190288 A1	7/2012	Willen	
D779,650 S	2/2017	Poehlman et al.	2012/0252348 A1	10/2012	Rheaume	
D788,281 S	5/2017	Daniels	2012/0322359 A1	12/2012	Chen et al.	
D788,902 S	6/2017	Daniels	2013/0019548 A1	1/2013	Daniels	
D796,661 S	9/2017	Oswald	2013/0040553 A1	2/2013	Potter	
D804,628 S *	12/2017	Fiser	2013/0078903 A1	3/2013	Mantyla et al.	D23/373
9,869,093 B2 *	1/2018	Daniels	2013/0247480 A1	9/2013	Ridgway	E04D 1/30
D810,257 S	2/2018	Lai	2014/0065944 A1	3/2014	Chamness	
D812,211 S *	3/2018	Daniels	2014/0099878 A1	4/2014	Daniels	D23/371
D820,968 S *	6/2018	Daniels	2014/0248834 A1	9/2014	Kolt et al.	D23/373
D827,874 S *	9/2018	Menton	2015/0143760 A1	5/2015	Daniels	D25/199
D841,797 S *	2/2019	Daniels	2015/0253021 A1	9/2015	Daniels	D23/393
10,312,854 B2 *	6/2019	Daniels	2016/0025361 A1	1/2016	Daniels	E04D 1/30
D867,571 S *	11/2019	Mok	2019/0341879 A1 *	11/2019	Daniels	E04D 3/30
2001/0027804 A1	10/2001	Inoue et al.	2020/0173674 A1 *	6/2020	Daniels	E04D 1/30

FOREIGN PATENT DOCUMENTS

DE	28 04 301	2/1979
DE	198 23 356	11/1999
GB	2183819	6/1987
GB	2279453	1/1995
GB	2345536	7/2000
JP	59-060138	4/1984
JP	H06 13304 U	2/1994
JP	06-241517	8/1994
JP	06-272920	9/1994
JP	09-158428	6/1997
JP	10-061133	3/1998
JP	11-044035	2/1999
JP	11-229576	8/1999
JP	2000-274032	10/2000
JP	2002/357344	12/2002
JP	2004-092298	3/2004
JP	2007-534924	11/2007
WO	WO 05/108708	11/2005
WO	WO 2013/106882	7/2013

OTHER PUBLICATIONS

European Extended Search Report in European Patent Application No. 14884739.5, dated Sep. 19, 2017.

International Search Report for PCT/US2014/060964 dated Jan. 29, 2015.

Flat-Type Vent. Formfonts.com[online] 1 page. Designed/built 2008 [retrieved on Feb. 12, 2015]. <[https://www.formfonts.com/3D-Model/11_030/1_b3020-roof-openings/b3020-roof-openings/b3020-roof-openings/ohagins-concrete-tile-vent-type-flat/](https://www.formfonts.com/3D-Model/11_030/1_b3020-roof-openings/b3020-roof-openings/b3020-roof-openings/b3020-roof-openings/ohagins-concrete-tile-vent-type-flat/)>.

Roof Vents. (1/8-Designs—© Questel). orbit.com [online PDF] 27 pages. Uploaded 2014 [retrieved on Feb. 12, 2015] Retrieved from Internet: <<http://sobjprd.questel.fr/exportIQPTUJ214/pdf2/5f7850eaf617-4548-bc47-08c3edb41caO-222833.pdf>>.

S-Type Vent. Formfonts.com[online] 1 page. Designed/built 2008 [retrieved on Feb. 12, 2015]. <http://www.formfonts.com/3D-Model/11_032/shell/b30-roofing/b3010-roof-coverings/b3020-roof-openings/ohagins-concrete-tile-vent-type/>.

M-Type Vent. Formfonts.com[online] 1 page. Designed/built 2008 [retrieved on Feb. 12, 2015]. <<https://www.formfonts.com/3D-Model/1/11031/1/shell/b30-roofing/b3010-roof-coverings/b3020-roof-openings/ohagins-concrete-tile-vent-type-config/>>.

* cited by examiner

Primary Examiner — Marie D. Fast Horse
(74) Attorney, Agent, or Firm — Knobbe Martens Olson & Bear LLP

(57) CLAIM

I claim the ornamental design for roof vent assembly, as shown and described.

DESCRIPTION

FIG. 1 is a top view of a roof vent assembly;
FIG. 2 is a bottom view of the roof vent assembly of FIG. 1;
FIG. 3 is a front view of the roof vent assembly of FIG. 1;
FIG. 4 is a rear view of the roof vent assembly of FIG. 1;
FIG. 5 is a right side view of the roof vent assembly of FIG. 1;
FIG. 6 is a right side view of the roof vent assembly of FIG. 1 showing a lower vent member laterally displaced relative to an upper vent member;
FIG. 7 is a top exploded perspective view of the roof vent assembly of FIG. 1 showing a lower vent member;
FIG. 8 is a top exploded perspective view of the roof vent assembly of FIG. 1 with a solar panel, and a lower vent member with an upper screen;
FIG. 9 is a top exploded perspective view of the roof vent assembly of FIG. 1 with a flexible solar panel, and a lower vent member with an upper screen;
FIG. 10 is a top exploded perspective view of the roof vent assembly of FIG. 1 with flexible solar panels, and a lower vent member with an upper screen;
FIG. 11 is a bottom exploded perspective view of the roof vent assembly of FIG. 1 showing a lower vent member; and,
FIG. 12 is a bottom exploded perspective view of the roof vent assembly of FIG. 1 showing a lower vent member with a lower screen.
The broken lines in the figures form no part of the claimed design.

1 Claim, 10 Drawing Sheets

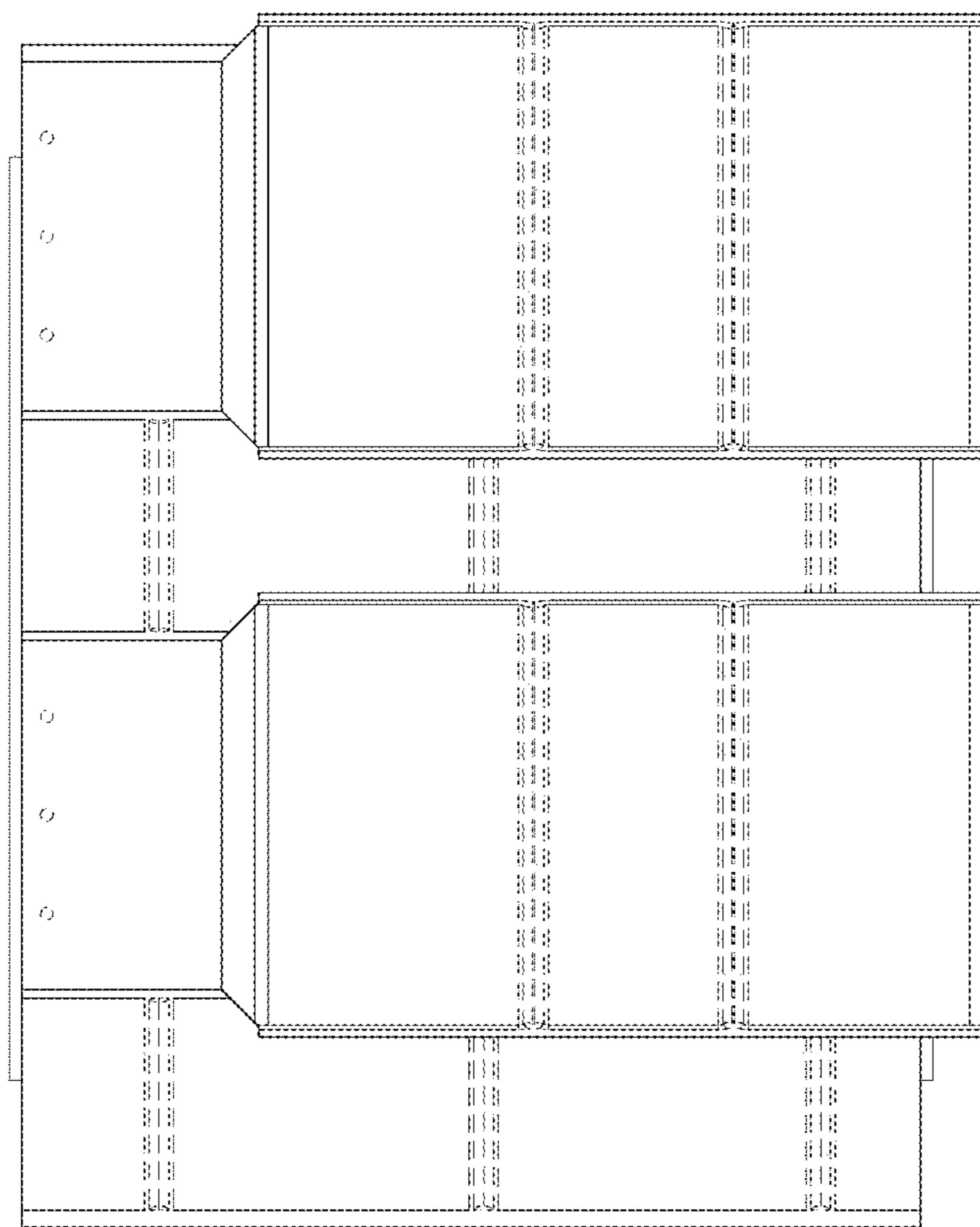


FIG. 1

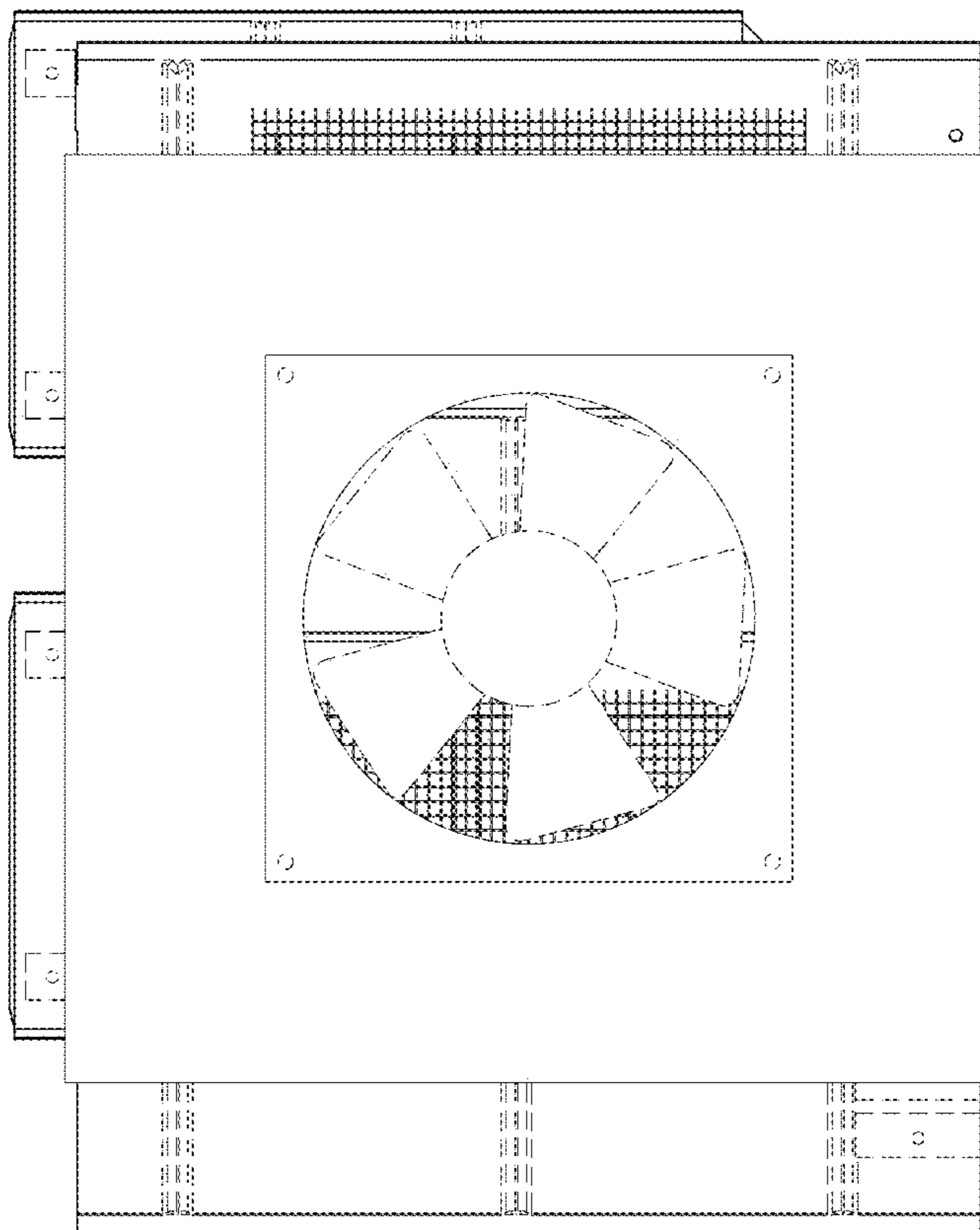


FIG. 2

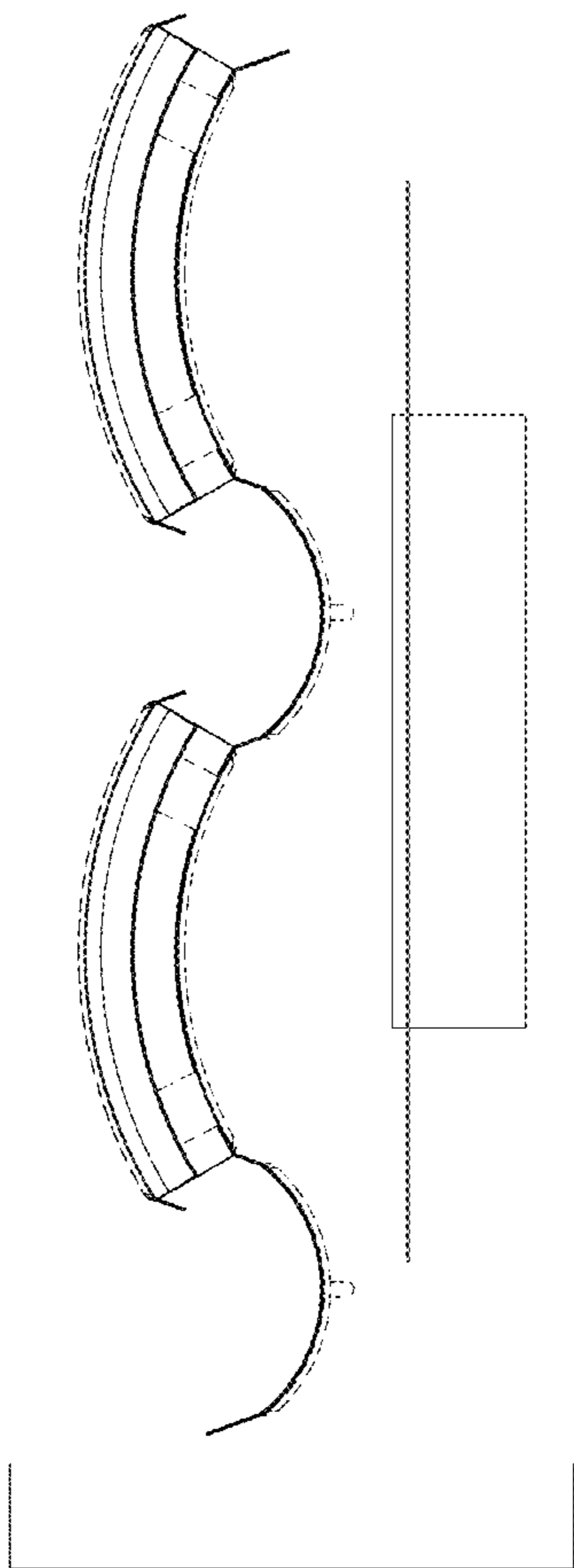


FIG. 3

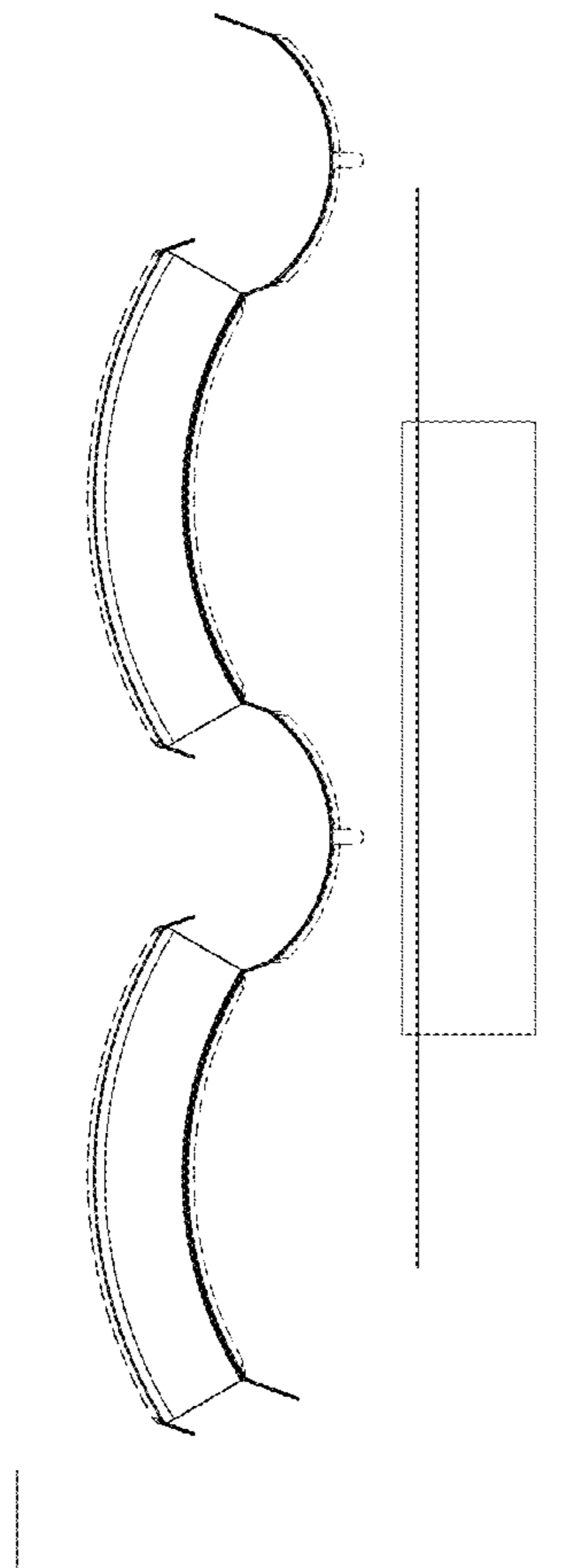


FIG. 4

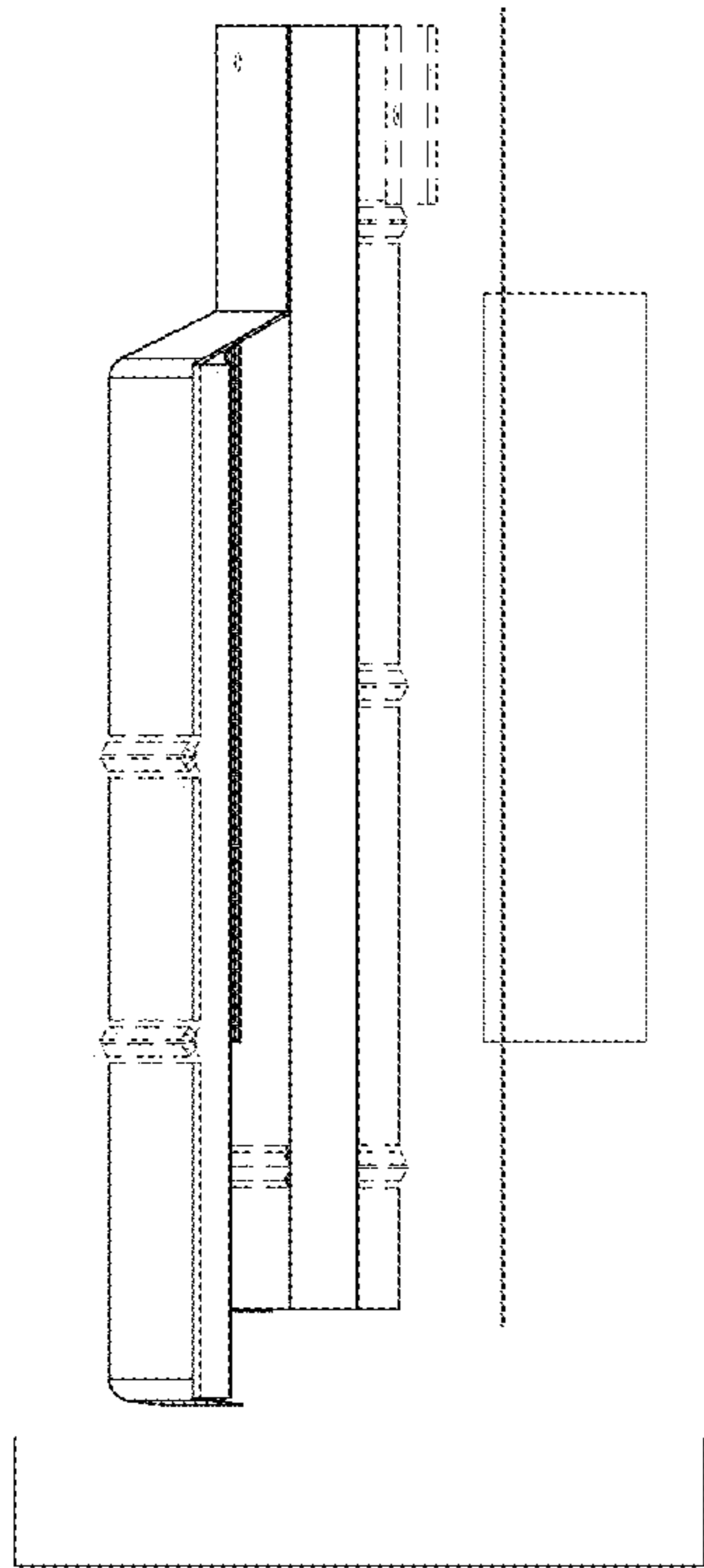


FIG. 5

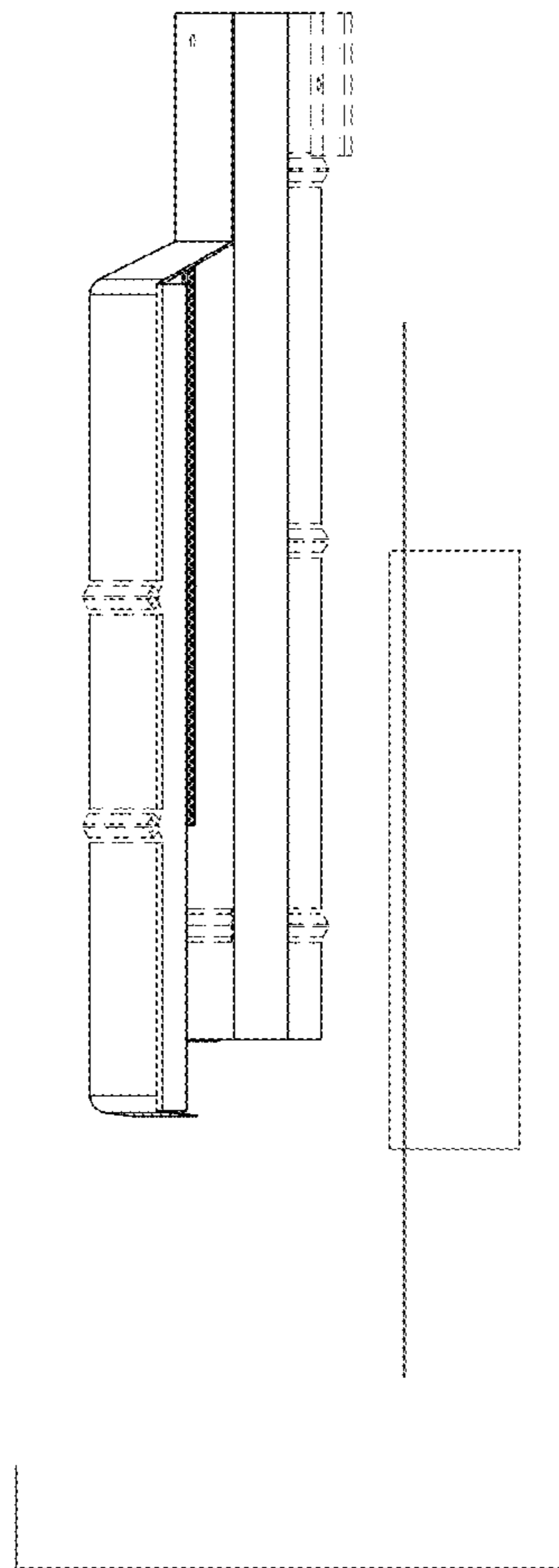


FIG. 6

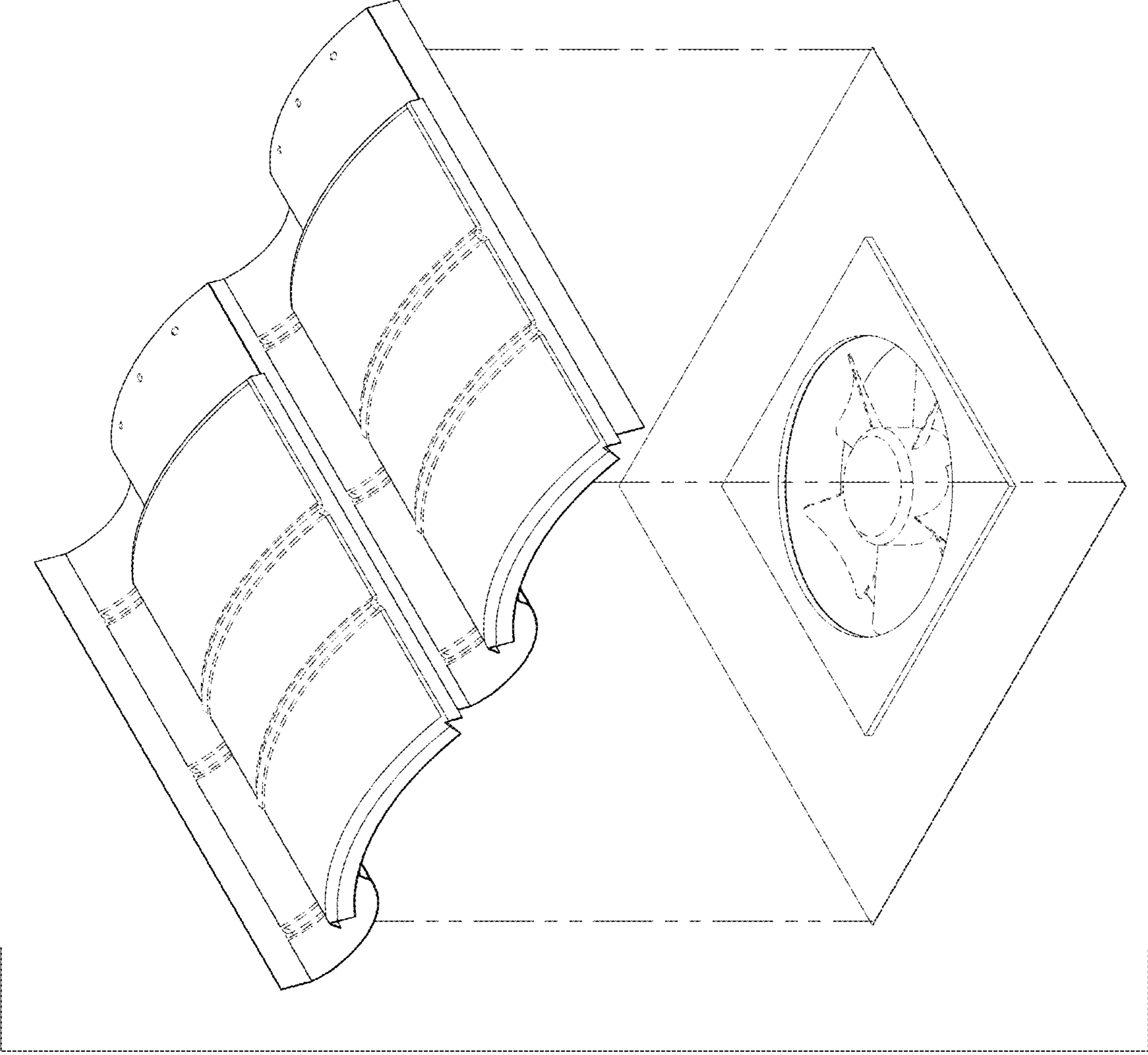


FIG. 7

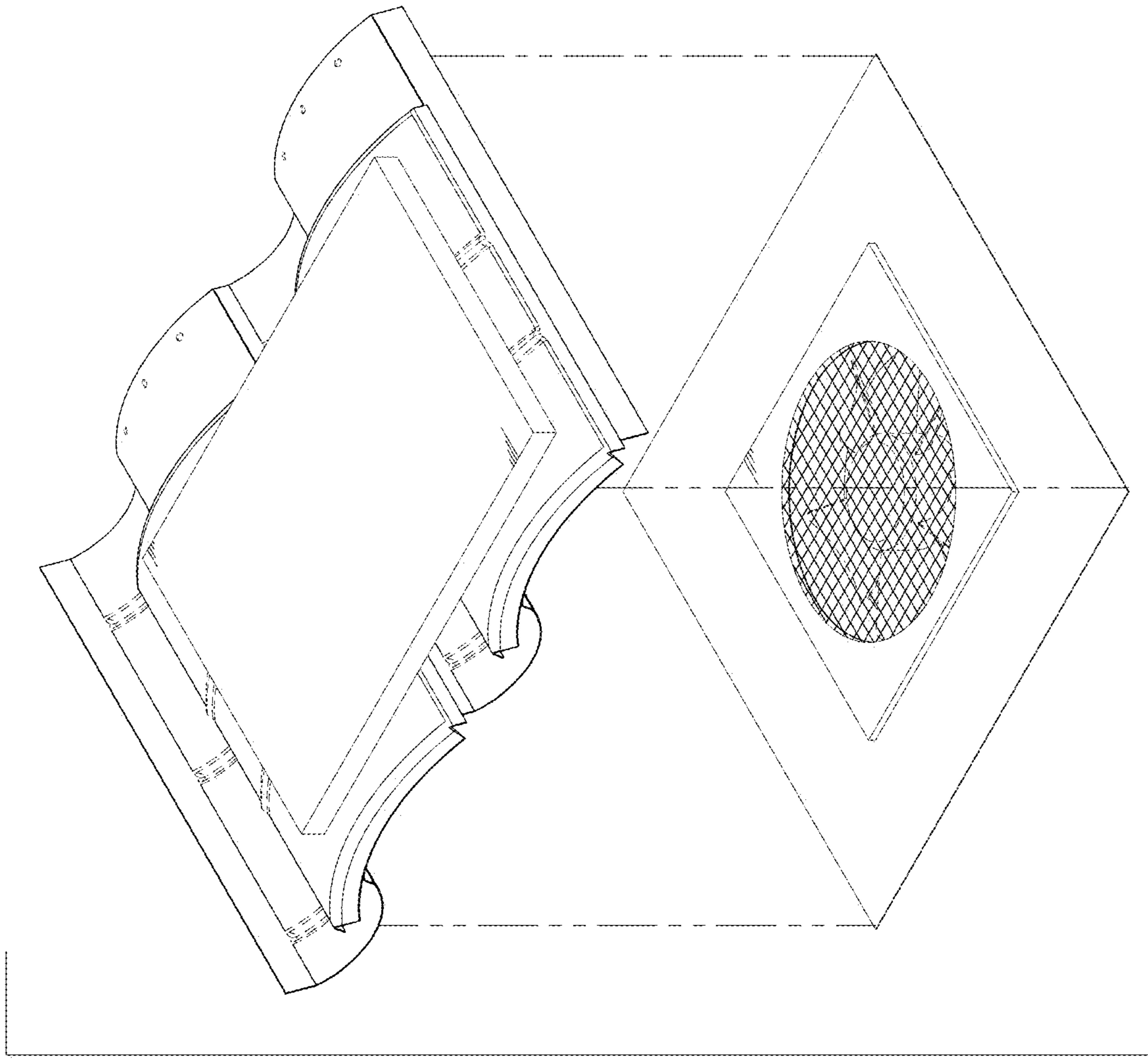


FIG. 8

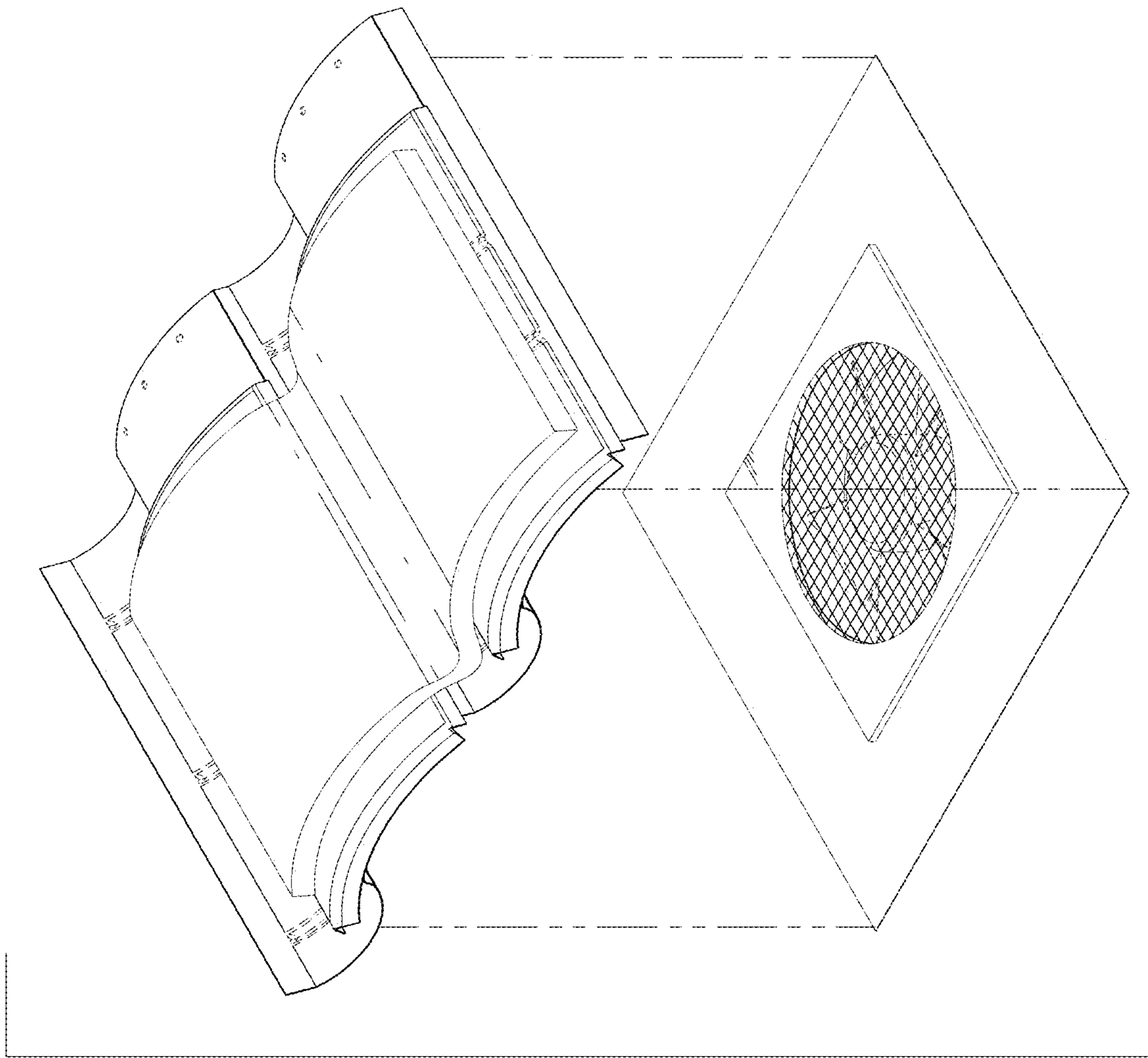


FIG. 9

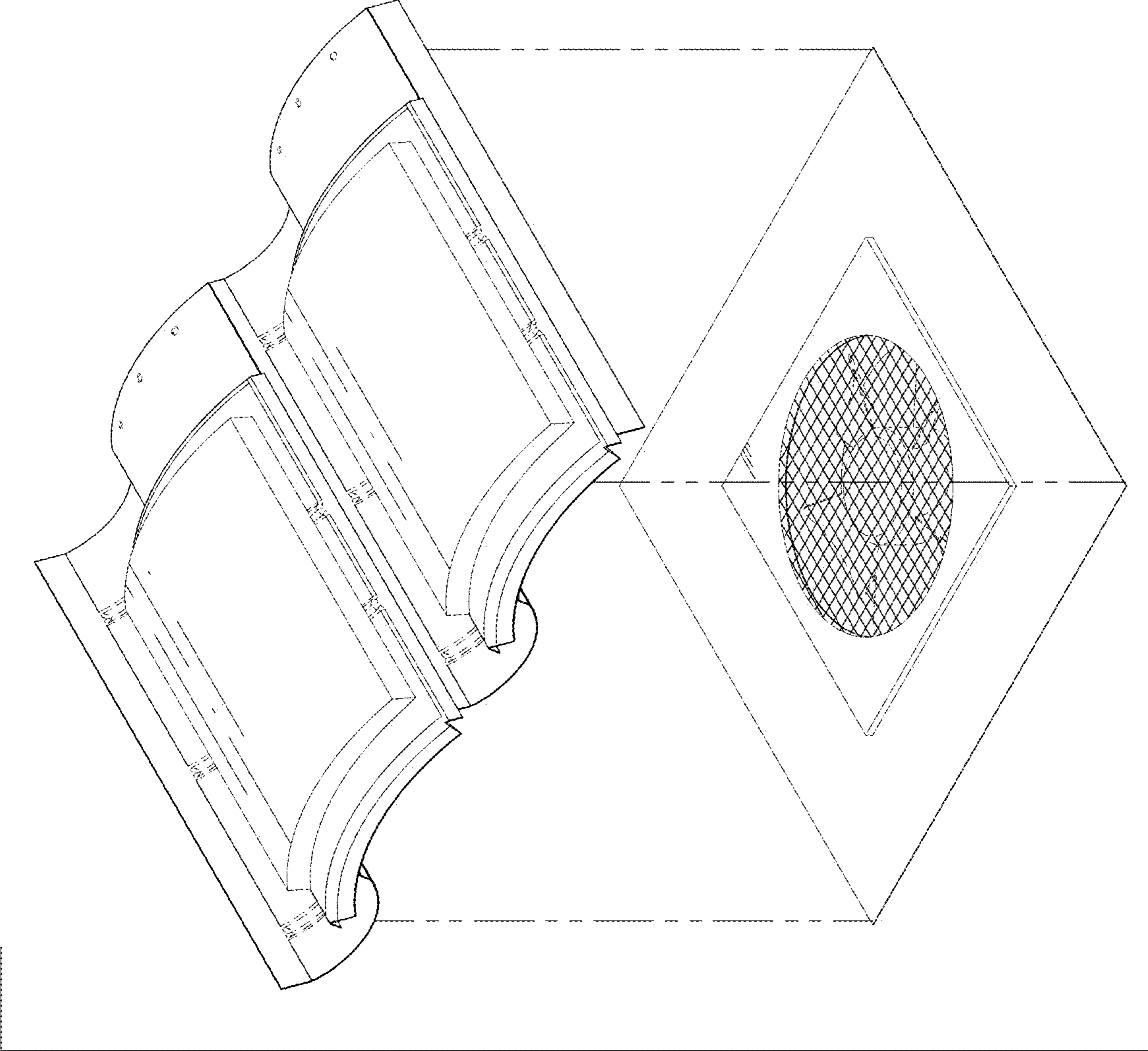


FIG. 10

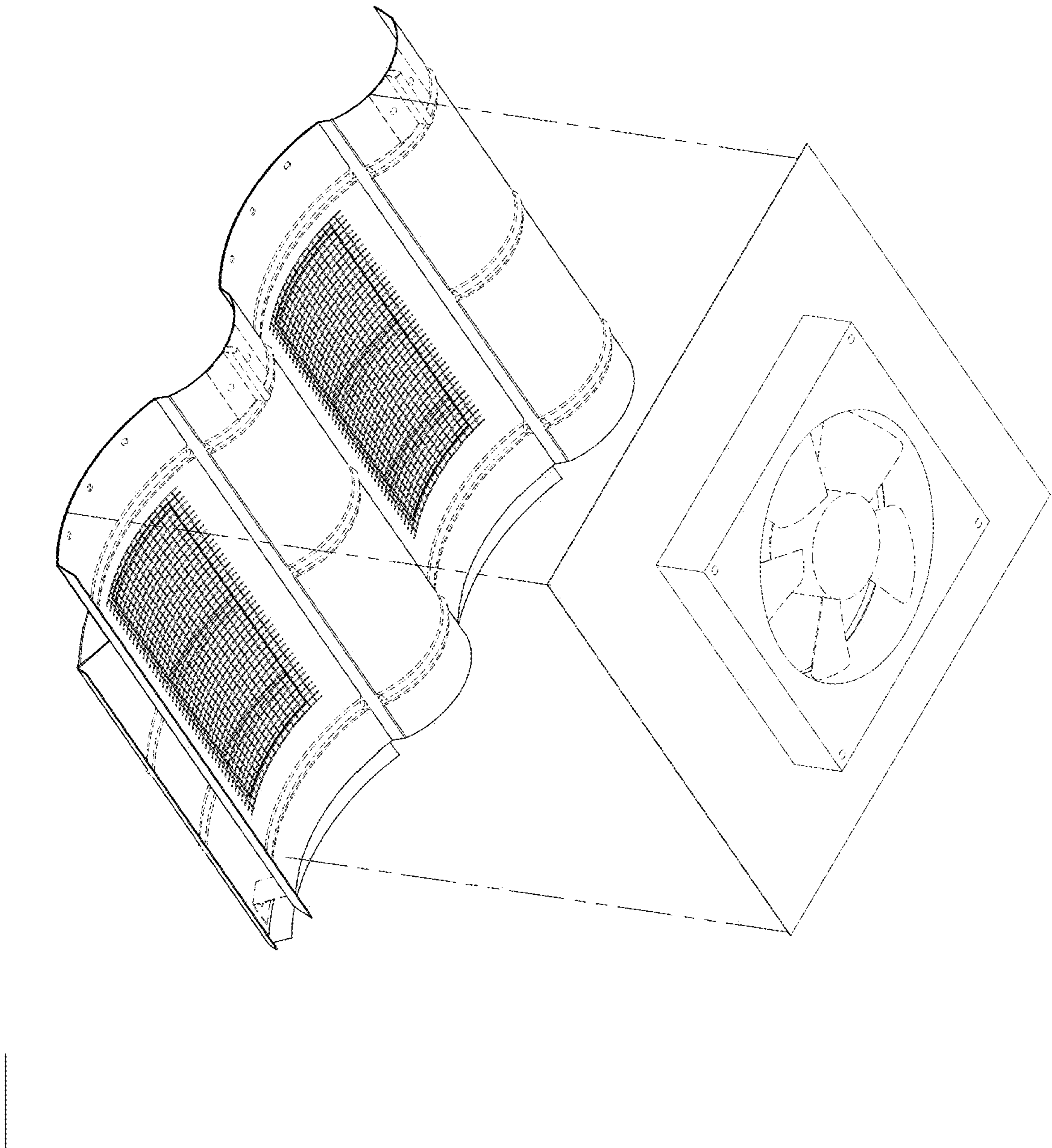


FIG. II

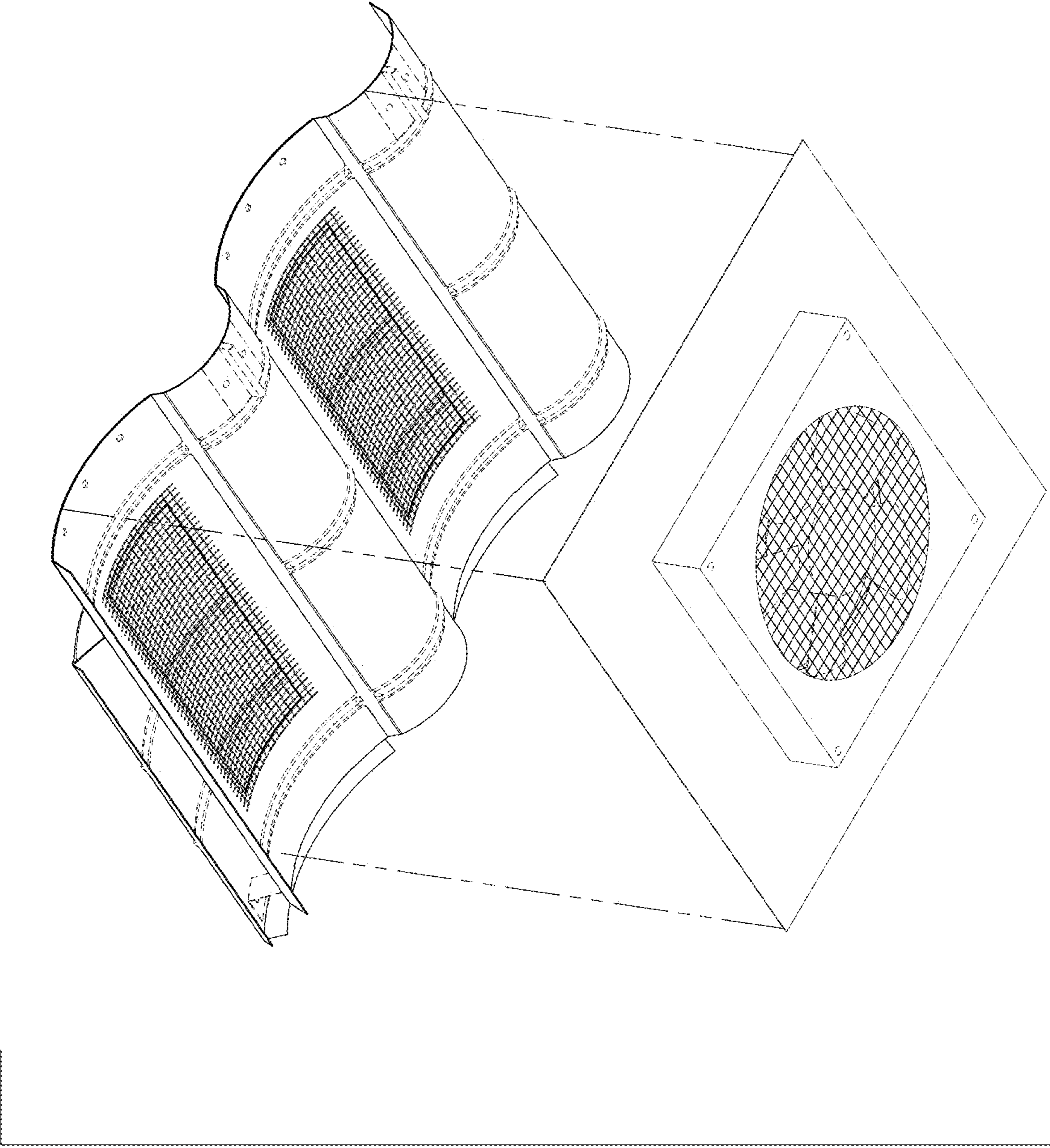


FIG. 12