US00D820968S

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

(10) **Patent No.: US D820,968 S**
(45) **Date of Patent: ** Jun. 19, 2018**

(54) **ROOF VENT ASSEMBLY**

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

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

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

(21) Appl. No.: **29/606,301**

(22) Filed: **Jun. 2, 2017**

Related U.S. Application Data

(60) Continuation of application No. 29/549,151, filed on Dec. 18, 2015, now Pat. No. Des. 788,902, which is
(Continued)

(51) **LOC (11) 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;
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D30,059 S 1/1899 Tracy
2,229,317 A 10/1942 Fink
(Continued)

FOREIGN PATENT DOCUMENTS

DE 28 04 301 2/1979
DE 198 23 356 11/1999
(Continued)

OTHER PUBLICATIONS

Roof Vents. (⅛-Designs-© Questel). orbit.com [online PDF]27 pages. Uploaded 2014 [retrieved on Feb. 12, 2015]. Retrieved from Internet: <http://sobjprd.questel.fr/export/QPTUJ214/pdf2/5f7850ea-f617-4548-bc4 7-08c3edb41ca0-222833.pdf>.
(Continued)

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

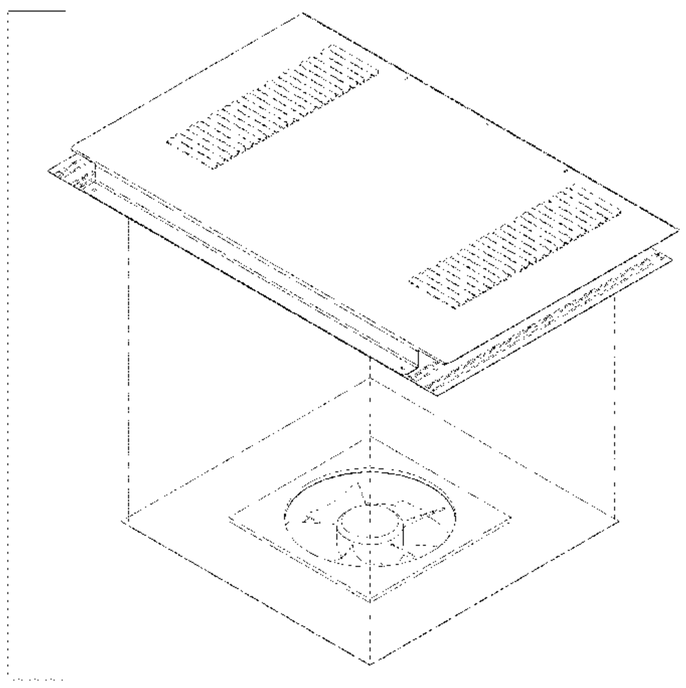
(57) **CLAIM**

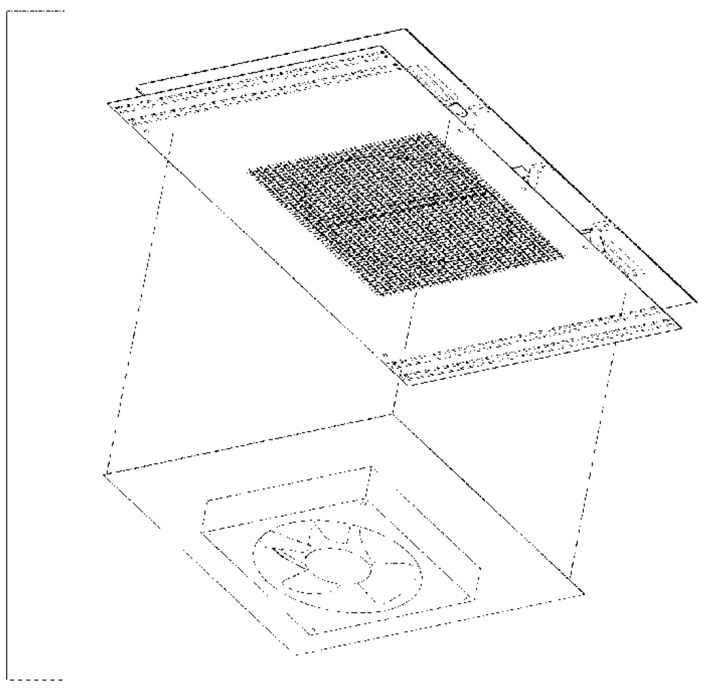
I claim the ornamental design for roof vent assembly, as shown and described.

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 left side view of the roof vent assembly of FIG. **1**, with the right side view being a mirror image of FIG. **5**;
FIG. **6** is a left side view of the roof vent assembly of FIG. **1** showing the lower vent member laterally displaced relative to the upper vent member, with the right side view being a mirror image of FIG. **6**;
FIG. **7** is a top exploded perspective view of the roof vent assembly of FIG. **1** showing the lower vent member with the integrated fan;
FIG. **8** is a top exploded perspective view of the roof vent assembly of FIG. **1** with a solar panel, and the lower vent member with the integrated fan and the upper fan screen;
FIG. **9** is a bottom exploded perspective view of the roof vent assembly of FIG. **1** showing the lower vent member with the integrated fan; and,
FIG. **10** is a bottom exploded perspective view of the roof vent assembly of FIG. **1** showing the lower vent member with the integrated fan and the lower fan screen.
The broken lines in the figures depict portions of the roof vent assembly that form no part of the claimed design.

1 Claim, 8 Drawing Sheets





Related U.S. Application Data

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.

(58) **Field of Classification Search**

USPC D14/230; 454/185, 341, 365, 366, 368, 454/184, 198–211, 242–244, 248, 454/250–253, 275–277, 284, 287–289, 454/309; 165/244; 422/120; 55/471; D13/102, 156; D25/143; 52/95, 173.3

CPC .. E04D 1/36; E04D 1/30; E04D 13/00; E04D 13/008; E04D 13/17; E04D 13/174; E04D 13/176; E04D 13/178; F24F 7/025; F24F 11/0001; F24F 11/001; F24F 11/0012; F24F 7/02; F24J 2/4609; F24J 2/5247; H02S 20/23; H02S 20/25

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

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	12/1967	Bachwansky
3,459,597	A	8/1969	Baron
D215,940	S	11/1969	Kahn
D217,610	S	5/1970	Stoop
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
3,951,336	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
4,083,097	A	4/1978	Anagnostou et al.
4,097,308	A	6/1978	Klein et al.
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.
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
4,510,851	A	4/1985	Sarnosky et al.
4,574,160	A	3/1986	Cull et al.
4,594,940	A	6/1986	Wolbrink et al.
4,602,739	A	6/1986	Sutton, Jr.
D285,829	S	9/1986	Lock
4,625,469	A	12/1986	Gentry et al.
4,633,769	A	1/1987	Milks
4,651,805	A	3/1987	Bergeron, Jr.
4,677,903	A	7/1987	Mathews, III
4,692,557	A	9/1987	Samuelson et al.
4,759,272	A	7/1988	Zaniewski
4,803,816	A	2/1989	Klober
4,843,794	A	7/1989	Holtgreve
4,850,166	A	7/1989	Taylor
4,860,509	A	8/1989	Laaly et al.
4,965,971	A	10/1990	Jean-Jacques et al.
4,977,818	A	12/1990	Taylor et al.
4,986,469	A	1/1991	Sutton, Jr.
5,048,255	A	9/1991	Gonzales
5,049,801	A	9/1991	Potter
5,060,444	A	10/1991	Paquette
5,070,771	A	12/1991	Mankowski
5,078,047	A	1/1992	Wimberly
5,092,939	A	3/1992	Nath et al.
5,094,697	A	3/1992	Takabayashi et al.
5,121,583	A	6/1992	Hirai et al.
5,131,200	A	7/1992	McKinnon
5,131,888	A	7/1992	Adkins, II
5,133,810	A	7/1992	Morizane et al.
D332,139	S	12/1992	Courchesne
5,176,758	A	1/1993	Nath et al.
5,228,925	A	7/1993	Nath et al.
5,232,518	A	8/1993	Nath et al.
5,238,519	A	8/1993	Nath et al.
5,273,608	A	12/1993	Nath
5,296,043	A	3/1994	Kawakami et al.
5,316,592	A	5/1994	Dinwoodie
5,326,318	A	7/1994	Rotter
5,333,783	A	8/1994	Catan
5,364,026	A	11/1994	Kundert
5,385,848	A	1/1995	Grimmer
5,391,235	A	2/1995	Inoue
5,409,549	A	4/1995	Mori
5,419,781	A	5/1995	Hamakawa et al.
5,437,735	A	8/1995	Younan et al.
5,480,494	A	1/1996	Inoue
5,486,238	A	1/1996	Nakagawa et al.
5,505,788	A	4/1996	Dinwoodie
5,528,229	A	6/1996	Mehta
5,549,513	A	8/1996	Thomas et al.
5,575,861	A	11/1996	Younan et al.
5,591,080	A	1/1997	Ward
5,602,457	A	2/1997	Anderson et al.
5,620,368	A	4/1997	Bates et al.
5,636,481	A	6/1997	De Zen
D380,823	S	7/1997	Lazar
5,651,226	A	7/1997	Archibald
5,672,101	A	9/1997	Thomas
5,697,192	A	12/1997	Inoue
5,697,842	A	12/1997	Donnelly
5,706,617	A	1/1998	Hirai et al.
5,722,887	A	3/1998	Wolfson et al.
5,738,581	A	4/1998	Rickert
5,740,636	A	4/1998	Archard
5,746,653	A	5/1998	Palmer et al.
5,746,839	A	5/1998	Dinwoodie
5,766,071	A	6/1998	Kirkwood
D397,431	S	8/1998	Meyer
5,800,631	A	9/1998	Yamada et al.
D403,755	S	1/1999	Liang
5,879,232	A	3/1999	Luter, II et al.
D408,514	S	4/1999	Horng
5,890,322	A	4/1999	Fears
D409,741	S	5/1999	Yuen-Ming
5,968,287	A	10/1999	Nath
5,990,414	A	11/1999	Posnansky
6,005,236	A	12/1999	Phelan et al.
6,008,450	A	12/1999	Ohtsuka et al.
6,036,102	A	3/2000	Pearson
6,050,039	A	4/2000	O'Hagin
6,051,774	A	4/2000	Yoshida et al.
D424,672	S	5/2000	Nanjo
6,061,977	A	5/2000	Toyama et al.
6,061,978	A	5/2000	Dinwoodie et al.
6,077,159	A	6/2000	Clayton
6,105,317	A	8/2000	Tomiuchi et al.
6,129,628	A	10/2000	O'Hagin

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,155,006	A	12/2000	Mimura et al.	
6,220,956	B1	4/2001	Kilian et al.	
D442,273	S	5/2001	Pestell	
6,241,602	B1	6/2001	Allen	
6,242,685	B1	6/2001	Mizukami et al.	
6,243,995	B1	6/2001	Reeves et al.	
6,294,724	B1	9/2001	Sasaoka et al.	
6,306,030	B1	10/2001	Wilson	
6,311,436	B1	11/2001	Mimura et al.	
6,336,304	B1	1/2002	Mimura et al.	
6,340,403	B1	1/2002	Carey et al.	
6,365,824	B1	4/2002	Nakazima et al.	
6,380,477	B1	4/2002	Curtin	
D457,234	S	5/2002	O'Hagin	
D458,391	S	6/2002	O'Haqin et al.	
D458,392	S	6/2002	O'Haqin et al.	
6,415,559	B1	7/2002	Reeves et al.	
6,418,678	B2	7/2002	Rotter	
6,439,466	B2	8/2002	Fikes	
6,447,390	B1	9/2002	O'Hagin	
6,453,629	B1	9/2002	Nakazima et al.	
6,459,032	B1	10/2002	Luch	
6,491,579	B1	12/2002	O'Hagin	
6,501,013	B1	12/2002	Dinwoodie	
6,541,693	B2	4/2003	Takada et al.	
6,553,729	B1	4/2003	Nath et al.	
6,606,830	B2	8/2003	Nagao et al.	
D479,885	S	9/2003	O'Hagin et al.	
6,695,692	B1	2/2004	York	
6,729,081	B2	5/2004	Nath et al.	
6,730,841	B2	5/2004	Heckeroth	
6,767,762	B2	7/2004	Guha	
6,799,742	B2	10/2004	Nakamura et al.	
D503,156	S	3/2005	Provenzano	
6,870,087	B1	3/2005	Gallagher	
D503,790	S	4/2005	Dodge	
D504,172	S	4/2005	O'Hagin	
6,875,914	B2	4/2005	Guha et al.	
D505,195	S	5/2005	Snyder	
6,928,775	B2	8/2005	Banister	
6,941,706	B2	9/2005	Austin et al.	
D512,774	S	12/2005	O'Hagin et al.	
D518,158	S	3/2006	Cho et al.	
D519,219	S	4/2006	Dodge et al.	
D520,149	S	5/2006	Dodge et al.	
7,044,852	B2	5/2006	Horton	
7,053,294	B2	5/2006	Tuttle et al.	
7,097,557	B2	8/2006	Kutschman	
D527,813	S	9/2006	Dodge et al.	
D527,836	S	9/2006	O'Hagin	
7,101,279	B2	9/2006	O'Hagin et al.	
D536,778	S	2/2007	O'Hagin	
7,176,543	B2	2/2007	Beernink	
7,178,295	B2	2/2007	Dinwoodie	
7,250,000	B2	7/2007	Daniels, II	
D549,316	S	8/2007	O'Hagin et al.	
D555,237	S	11/2007	O'Hagin	
7,320,774	B2	1/2008	Simmons et al.	
D562,993	S	2/2008	Shepherd et al.	
7,365,266	B2	4/2008	Heckeroth	
D578,633	S	10/2008	Schluter et al.	
D579,096	S	10/2008	Guzorek	
D582,905	S	12/2008	Takisawa et al.	
7,469,508	B2	12/2008	Ceria	
7,470,179	B1	12/2008	Ritter et al.	
D588,255	S	3/2009	Daniels	
D588,256	S	3/2009	Daniels	
D589,134	S	3/2009	O'Hagin et al.	
7,497,774	B2	3/2009	Stevenson et al.	
7,506,477	B2	3/2009	Flaherty et al.	
7,507,151	B1	3/2009	Parker et al.	
7,509,775	B2	3/2009	Flaherty et al.	
7,517,465	B2	4/2009	Guha et al.	
7,531,740	B2	4/2009	Flaherty et al.	
7,578,102	B2	8/2009	Banister	
7,587,864	B2	9/2009	McCaskill et al.	
7,618,310	B2	11/2009	Daniels	
7,642,449	B2	1/2010	Korman et al.	
D610,245	S	2/2010	Daniels	
D612,040	S	3/2010	Daniels	
7,678,990	B2	3/2010	McCaskill et al.	
D618,780	S	6/2010	Williams, Sr.	
7,736,940	B2	6/2010	Basol	
7,757,440	B2	7/2010	Austin et al.	
D625,800	S	10/2010	Daniels	
7,901,278	B2	3/2011	O'Hagin	
8,079,898	B1	12/2011	Stevenson	
D654,161	S	2/2012	Holland et al.	
8,167,216	B2	5/2012	Schultz et al.	
8,292,707	B2	10/2012	Grisham et al.	
8,316,592	B2	11/2012	Lanza	
D685,113	S	6/2013	Henriquez	
D685,312	S	6/2013	Henriquez	
8,479,458	B2	7/2013	Morita et al.	
8,535,128	B2	9/2013	Chwala	
D696,392	S	12/2013	Funnell, II	
8,607,510	B2	12/2013	Daniels	
8,608,533	B2	12/2013	Daniels	
D702,827	S	4/2014	Mase et al.	
D703,305	S	4/2014	Stollenwerk O'Hagin	
8,701,360	B2	4/2014	Ressler	
8,740,678	B2	6/2014	Railkar et al.	
8,776,455	B2	7/2014	Azoulay	
8,782,967	B2	7/2014	Daniels	
8,793,943	B2	8/2014	Daniels	
D713,953	S	9/2014	Jepson	
D719,253	S	12/2014	Francescon	
9,011,221	B2	4/2015	Daniels	
D748,239	S *	1/2016	Daniels	D23/373
D755,944	S *	5/2016	Daniels	D23/373
D779,650	S *	2/2017	Poehlman	D23/393
D788,281	S *	5/2017	Daniels	D23/373
D788,902	S *	6/2017	Daniels	D23/373
D796,661	S *	9/2017	Oswald, Jr.	D23/388
2001/0027804	A1	10/2001	Inoue et al.	
2001/0040201	A1	11/2001	Paxton	
2002/0036010	A1	3/2002	Yamawaki	
2002/0104562	A1	8/2002	Emoto et al.	
2003/0000158	A1	1/2003	Borges	
2003/0159802	A1	8/2003	Steneby et al.	
2004/0031219	A1	2/2004	Banister	
2004/0098932	A1	5/2004	Broatch	
2005/0074915	A1	4/2005	Tuttle et al.	
2005/0127379	A1	6/2005	Nakata	
2005/0130581	A1	6/2005	Dodge	
2005/0144963	A1	7/2005	Peterson et al.	
2005/0176270	A1	8/2005	Luch	
2005/0178429	A1	8/2005	McCaskill et al.	
2005/0191957	A1	9/2005	Demetry	
2005/0233691	A1	10/2005	Horton	
2005/0239393	A1	10/2005	Reese	
2005/0239394	A1	10/2005	O'Hagin	
2005/0263178	A1	12/2005	Montello et al.	
2005/0263179	A1	12/2005	Gaudiana et al.	
2005/0263180	A1	12/2005	Montello et al.	
2005/0274408	A1	12/2005	Li et al.	
2006/0017154	A1	1/2006	Eguchi et al.	
2006/0032527	A1	2/2006	Stevens et al.	
2006/0052047	A1	3/2006	Daniels, II	
2006/0052051	A1	3/2006	Daniels	
2006/0086384	A1	4/2006	Nakata	
2006/0124827	A1	6/2006	Janus et al.	
2006/0223437	A1	10/2006	O'Hagin	
2007/0049190	A1	3/2007	Singh	
2007/0066216	A1	3/2007	Mcintire	
2007/0067063	A1	3/2007	Ahmed	
2007/0072541	A1	3/2007	Daniels et al.	
2007/0084501	A1	4/2007	Kalberlah et al.	
2007/0094953	A1	5/2007	Galeazzo et al.	
2007/0173191	A1	7/2007	Daniels, II et al.	
2007/0184775	A1	8/2007	Perkins et al.	
2007/0207725	A1	9/2007	O'Hagin	
2007/0243820	A1	10/2007	O'Hagin	
2007/0246095	A1	10/2007	Schaefer	

(56) **References Cited**

U.S. PATENT DOCUMENTS

2008/0040990	A1	2/2008	Vendig et al.	
2008/0098672	A1	5/2008	O'Hagin et al.	
2008/0163576	A1	7/2008	Oaten	
2008/0220714	A1	9/2008	Caruso et al.	
2008/0287053	A1	11/2008	Carlson et al.	
2008/0287054	A1	11/2008	Carlson et al.	
2008/0299892	A1	12/2008	Robinson	
2009/0203308	A1	8/2009	O'Hagin et al.	
2009/0253368	A1	10/2009	Rotter	
2009/0286463	A1	11/2009	Daniels	
2009/0311959	A1	12/2009	Shepherd	
2010/0064605	A1	3/2010	Corvaglia et al.	
2010/0068985	A1	3/2010	Park	
2010/0229940	A1	9/2010	Basol	
2010/0287852	A1	11/2010	Bortoletto	
2010/0300128	A1	12/2010	Chen	
2010/0330898	A1	12/2010	Daniels	
2011/0294412	A1	12/2011	Vagedas	
2012/0110924	A1	5/2012	Makin	
2012/0151856	A1	6/2012	Azoulay	
2012/0178357	A1	7/2012	Rheaume	
2012/0190288	A1	7/2012	Willen	
2012/0252348	A1	10/2012	Rheaume	
2012/0322359	A1	12/2012	Chen et al.	
2013/0019548	A1	1/2013	Daniels	
2013/0040553	A1	2/2013	Potter	
2013/0078903	A1*	3/2013	Mantyla	F24F 7/02 454/367
2013/0247480	A1	9/2013	Ridgway	
2014/0065944	A1	3/2014	Chamness	
2014/0099878	A1	4/2014	Daniels	
2014/0248834	A1	9/2014	Kolt et al.	
2015/0253021	A1*	9/2015	Daniels	E04D 1/30 454/341

FOREIGN PATENT DOCUMENTS

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

Flat-Type Vent. Formfomts.com[online] 1 page. Designed/built 2008 [retrieved on Feb. 12, 2015]. <https://www.formfonts.com/3D-Model/11030/1 /b3020-roof-openings/b3020-roof-openings/b3020-roof-openings/b3020-roof-openings/b3020-roof-openings/ohagins-concrete-tile-vent-type-flat!>.

S-Type Vent. Formfomts.com[online] 1 page. Designed/built 2008 [retrieved on Feb. 12, 2015]. <http://www.formfonts.com/3D-Model/11032/shell/b30-roofing/b301 O-roof-coverings/b3020-roof-openings/ohagins-concrete-tile-vent-type/>.

M-Type Vent. Formfomts.com[online] 1 page. Designed/built 2008 [retrieved on Feb. 12, 2015]. <https://www.formfonts.com/3D-Model/1/11031/1/shell/b30-roofing/b301 O-roof-coverings/b3020-roof-openings/ohagins-concrete-tile-vent-type-config/>.

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

* cited by examiner

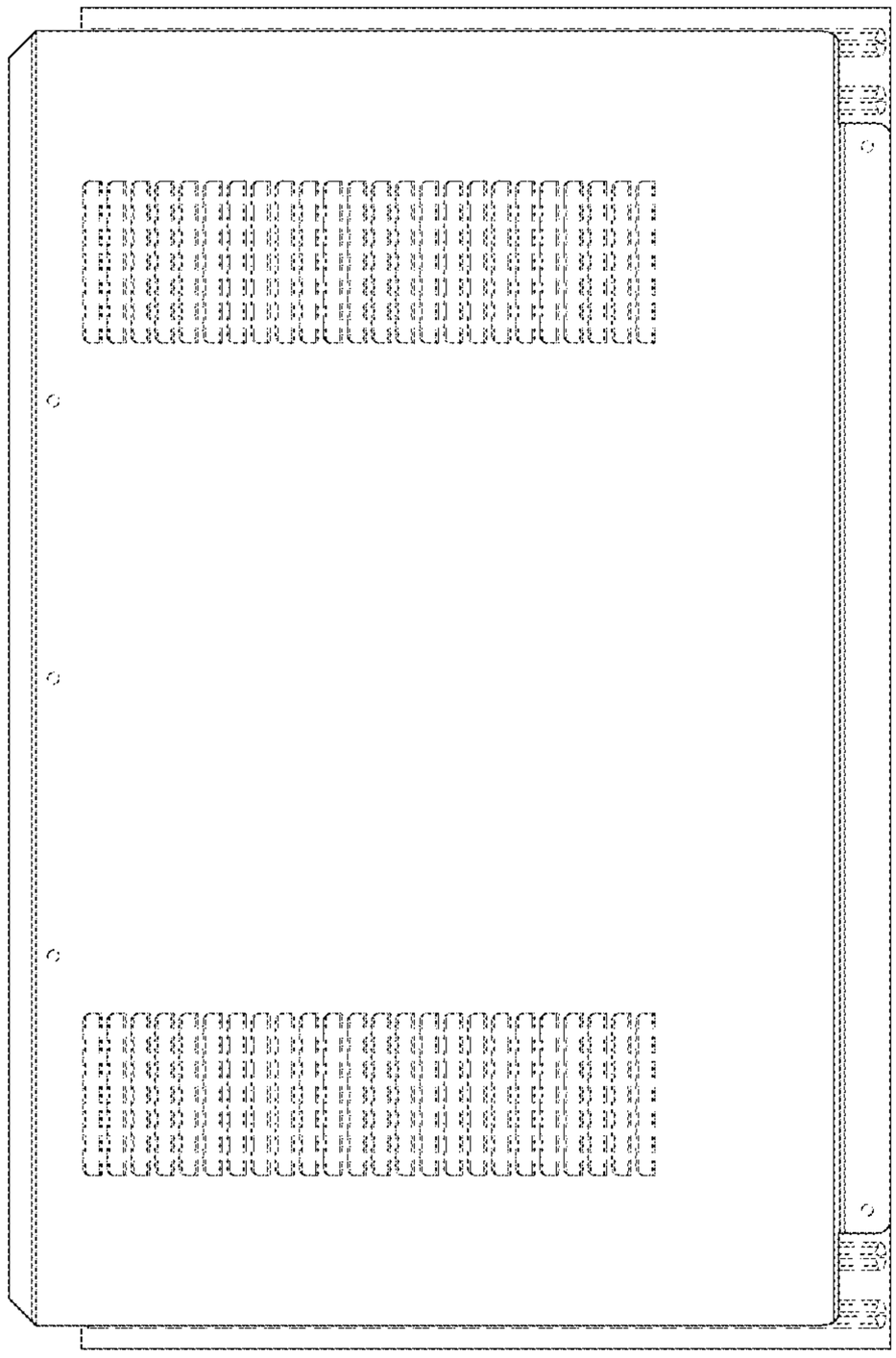


FIG. 1

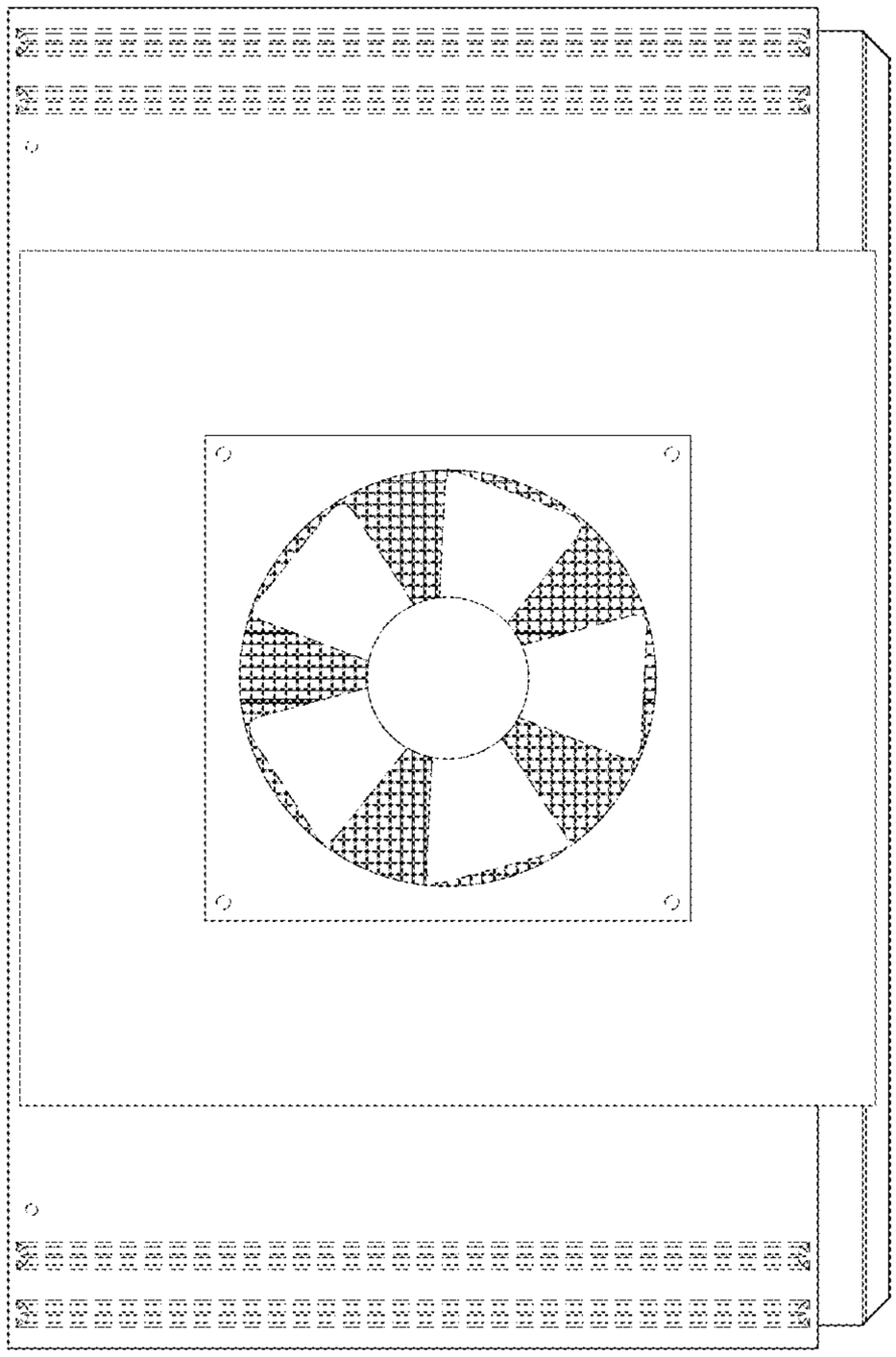


FIG. 2

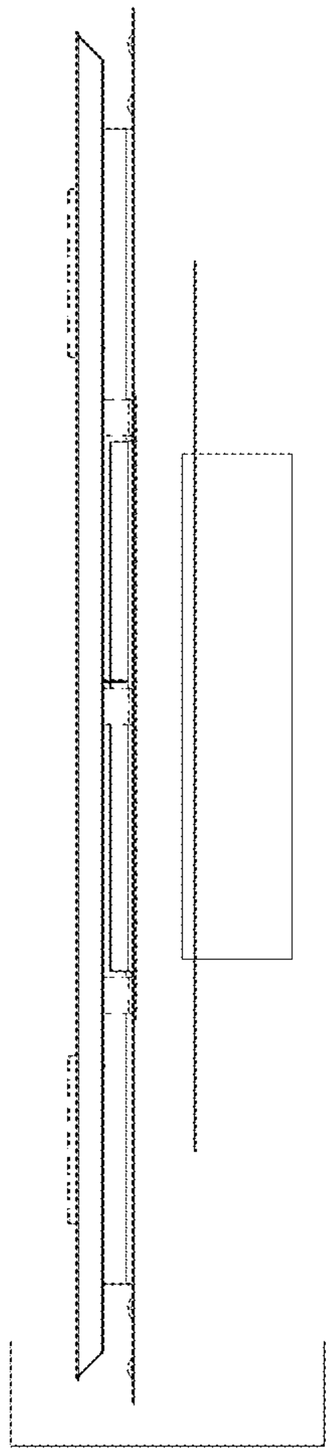


FIG. 3

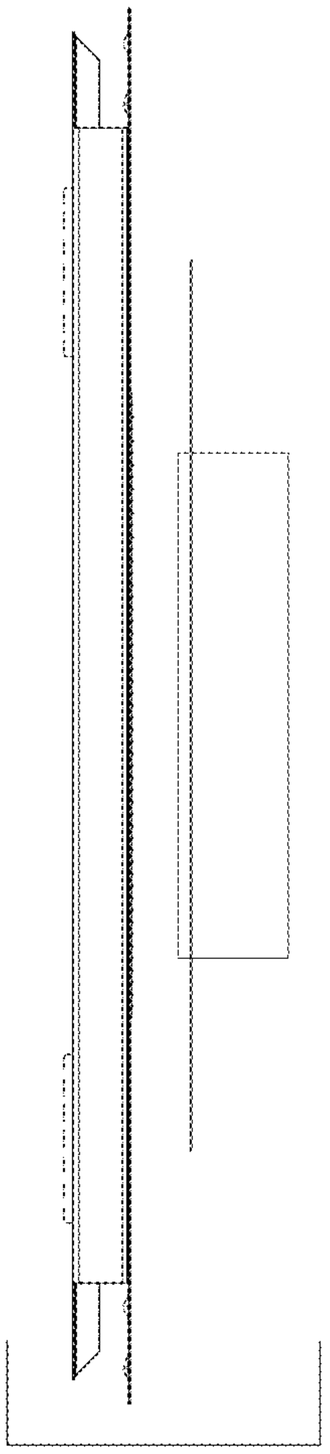


FIG. 4

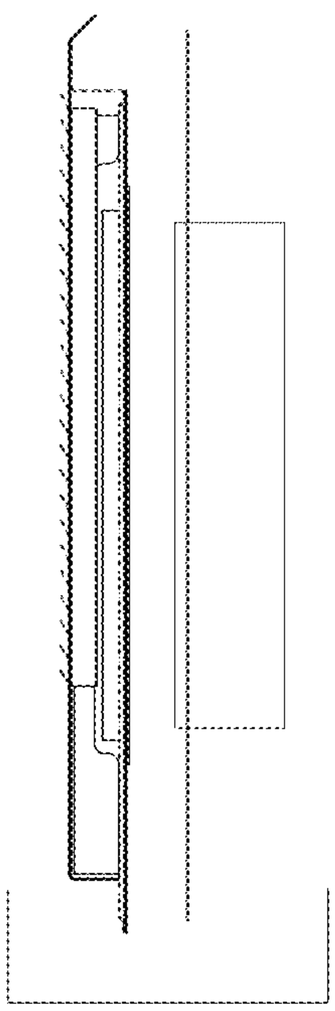


FIG. 5

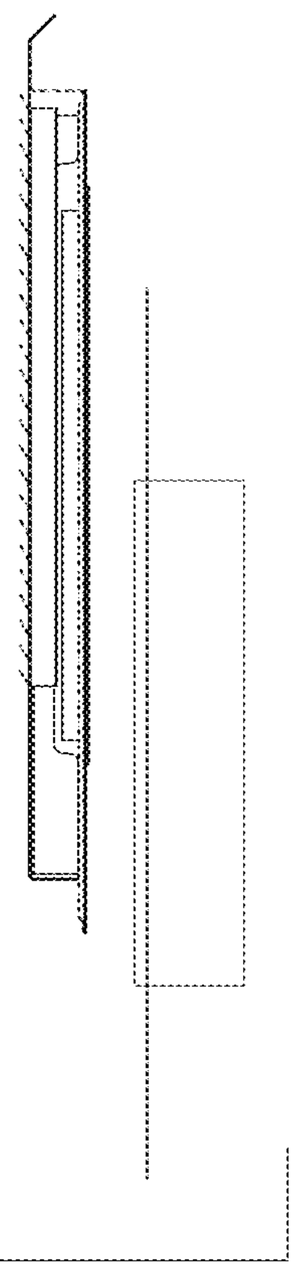


FIG. 6

FIG. 7

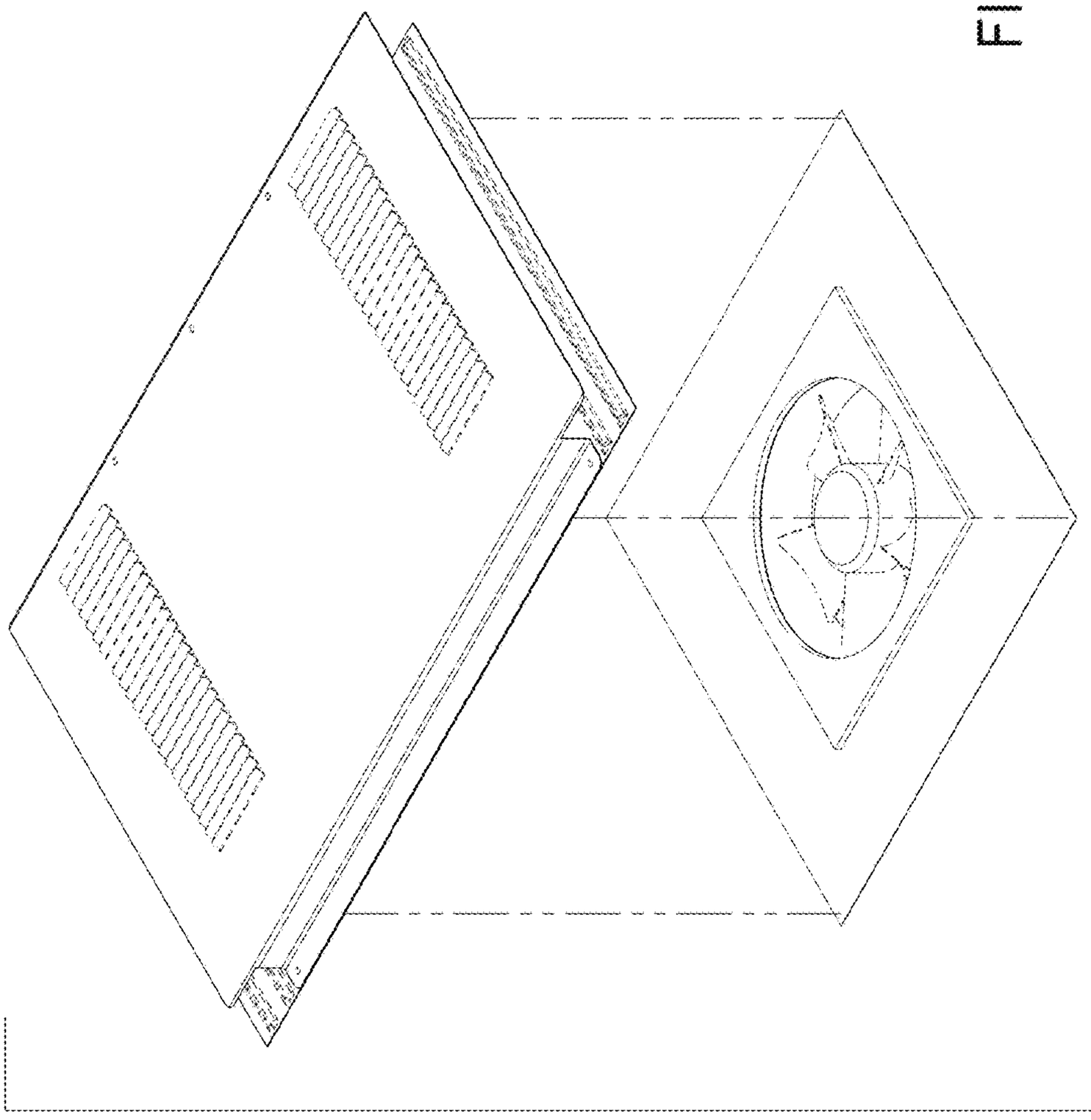


FIG. 8

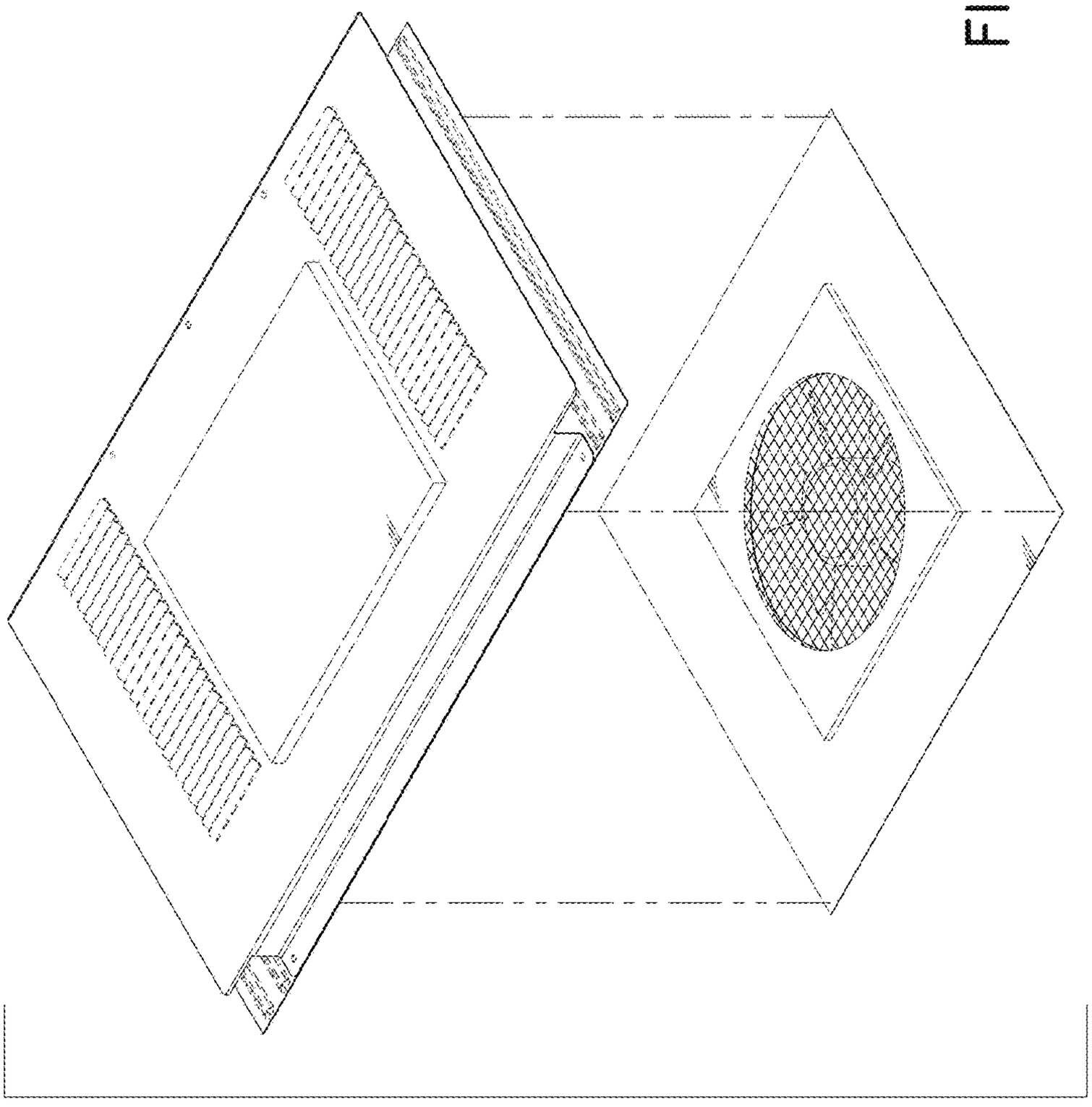


FIG. 6

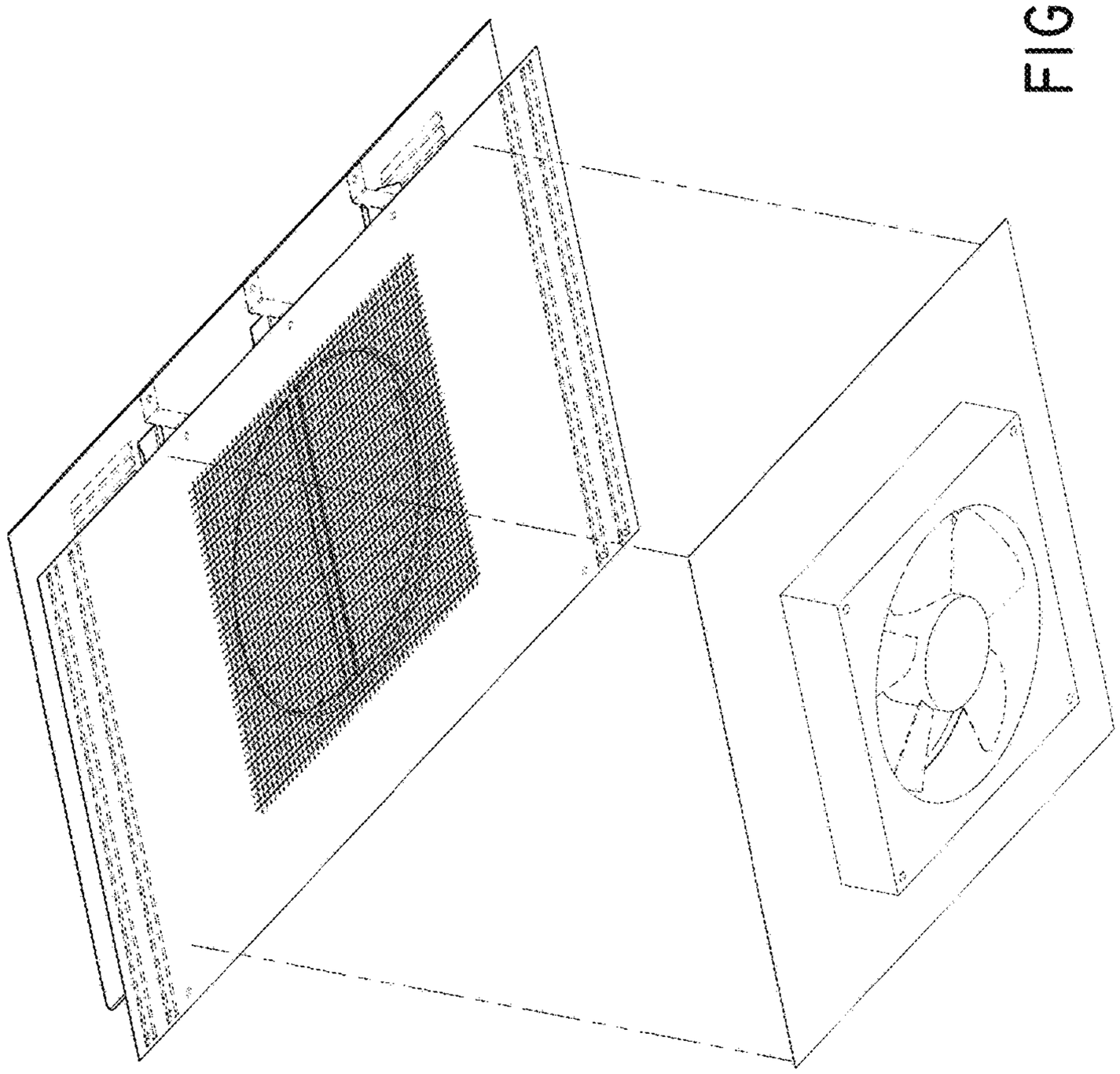


FIG. 10