



US00D788902S

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

(10) **Patent No.:** **US D788,902 S**
(45) **Date of Patent:** **** Jun. 6, 2017**

- (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.: **29/549,151**
- (22) Filed: **Dec. 18, 2015**

Related U.S. Application Data

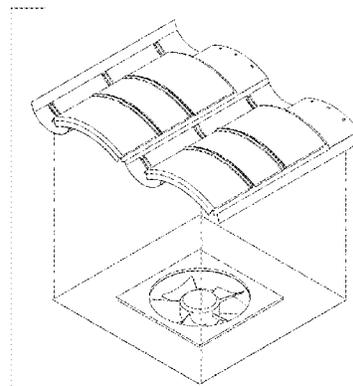
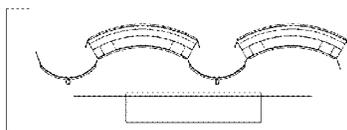
- (60) Division of application No. 29/500,928, filed on Aug. 29, 2014, now Pat. No. Des. 748,239, which is a continuation-in-part of application No. 29/484,168, filed on Mar. 6, 2014, now Pat. No. Des. 755,944.
- (51) **LOC (10) Cl.** **23-04**
- (52) **U.S. Cl.**
USPC **D23/373**
- (58) **Field of Classification Search**
USPC D23/370-376, 349, 353-364, 386-393, D23/411, 499; D26/59, 72, 118; D14/230; 454/185, 250-253, 341, 365, 454/366, 368, 184, 198-211, 242-244, 454/248, 275-277, 284, 287-289, 309; 165/244; 422/120; 55/471; D13/102, D13/156; 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.

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	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	Shaffner
4,485,264 A	11/1984	Izu et al.
4,498,267 A	2/1985	Beck
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	7/1986	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

(56) **References Cited**

U.S. PATENT DOCUMENTS

D30,059 S	1/1899	Tracy
2,299,317 A	10/1942	Fink
D134,477 S	12/1942	Leslie



US D788,902 S

Page 2

4,843,794	A	7/1989	Holtgreve	6,242,685	B1	6/2001	Mizukami et al.
4,850,166	A	7/1989	Taylor	6,243,995	B1	6/2001	Reeves et al.
4,860,509	A	8/1989	Laaly et al.	6,294,724	B1	9/2001	Sasaoka et al.
4,965,971	A	10/1990	Jean-Jacques et al.	6,306,030	B1	10/2001	Wilson
4,977,818	A	12/1990	Taylor et al.	6,311,436	B1	11/2001	Mimura et al.
4,986,469	A	1/1991	Sutton, Jr.	6,336,304	B1	1/2002	Mimura et al.
5,048,255	A	9/1991	Gonzales	6,340,403	B1	1/2002	Carey et al.
5,049,801	A	9/1991	Potter	6,365,824	B1	4/2002	Nakazima et al.
5,060,444	A	10/1991	Paquette	6,380,477	B1	4/2002	Curtin
5,070,771	A	12/1991	Mankowski	D457,234	S	5/2002	O'Hagin
5,078,047	A	1/1992	Wimberly	D458,391	S	6/2002	O'Hagin et al.
5,092,939	A	3/1992	Nath et al.	D458,392	S	6/2002	O'Hagin et al.
5,094,697	A	3/1992	Takabayashi et al.	6,415,559	B1	7/2002	Reeves et al.
5,121,583	A	6/1992	Hirai et al.	6,418,678	B2	7/2002	Rotter
5,131,200	A	7/1992	McKinnon	6,439,466	B2	8/2002	Fikes
5,131,888	A	7/1992	Adkins, II	6,447,390	B1	9/2002	O'Hagin
5,133,810	A	7/1992	Morizane et al.	6,453,629	B1	9/2002	Nakazima et al.
D332,139	S	12/1992	Courchesne	6,459,032	B1	10/2002	Luch
5,176,758	A	1/1993	Nath et al.	6,491,579	B1	12/2002	O'Hagin
5,228,925	A	7/1993	Nath et al.	6,501,013	B1	12/2002	Dinwoodie
5,232,518	A	8/1993	Nath et al.	6,541,693	B2	4/2003	Takada et al.
5,238,519	A	8/1993	Nath et al.	6,553,729	B1	4/2003	Nath et al.
5,273,608	A	12/1993	Nath	6,606,830	B2	8/2003	Nagao et al.
5,296,043	A	3/1994	Kawakami et al.	D479,885	S	9/2003	O'Hagin et al.
5,316,592	A	5/1994	Dinwoodie	6,695,692	B1	2/2004	York
5,326,318	A	7/1994	Rotter	6,729,081	B2	5/2004	Nath et al.
5,333,783	A	8/1994	Catan	6,730,841	B2	5/2004	Heckerroth
5,364,026	A	11/1994	Kundert	6,767,762	B2	7/2004	Guha
5,385,848	A	1/1995	Grimmer	6,799,742	B2	10/2004	Nakamura et al.
5,391,235	A	2/1995	Inoue	D503,156	S	3/2005	Provenzano
5,409,549	A	4/1995	Mori	6,870,087	B1	3/2005	Gallagher
5,419,781	A	5/1995	Hamakawa et al.	D503,790	S	4/2005	Dodge
5,437,735	A	8/1995	Younan et al.	D504,172	S	4/2005	O'Hagin
5,480,494	A	1/1996	Inoue	6,875,914	B2	4/2005	Guha et al.
5,486,238	A	1/1996	Nakagawa et al.	D505,195	S	5/2005	Snyder
5,505,788	A	4/1996	Dinwoodie	6,928,775	B2	8/2005	Banister
5,528,229	A	6/1996	Mehta	6,941,706	B2	9/2005	Austin et al.
5,549,513	A	8/1996	Thomas et al.	D512,774	S	12/2005	O'Hagin et al.
5,575,861	A	11/1996	Younan et al.	D518,158	S	3/2006	Cho et al.
5,591,080	A	1/1997	Ward	D519,219	S	4/2006	Dodge et al.
5,602,457	A	2/1997	Anderson et al.	D520,149	S	5/2006	Dodge et al.
5,620,368	A	4/1997	Bates et al.	7,044,852	B2	5/2006	Horton
5,636,481	A	6/1997	De Zen	7,053,294	B2	5/2006	Tuttle et al.
D380,823	S	7/1997	Lazar	7,097,557	B2	8/2006	Kutschman
5,651,226	A	7/1997	Archibald	D527,813	S	9/2006	Dodge et al.
5,672,101	A	9/1997	Thomas	D527,836	S	9/2006	O'Hagin
5,697,192	A	12/1997	Inoue	7,101,279	B2	9/2006	O'Hagin et al.
5,697,842	A	12/1997	Donnelly	D536,778	S	2/2007	O'Hagin
5,706,617	A	1/1998	Hirai et al.	7,176,543	B2	2/2007	Beernink
5,722,887	A	3/1998	Wolfson et al.	7,178,295	B2	2/2007	Dinwoodie
5,738,581	A	4/1998	Rickert	7,250,000	B2	7/2007	Daniels, II
5,740,636	A	4/1998	Archard	D549,316	S	8/2007	O'Hagin et al.
5,746,653	A	5/1998	Palmer et al.	D555,237	S	11/2007	O'Hagin
5,746,839	A	5/1998	Dinwoodie	7,320,774	B2	1/2008	Simmons et al.
5,766,071	A	6/1998	Kirkwood	D562,993	S	2/2008	Shepherd et al.
D397,431	S	8/1998	Meyer	7,365,266	B2	4/2008	Heckerroth
5,800,631	A	9/1998	Yamada et al.	D578,633	S	10/2008	Schluter et al.
D403,755	S	1/1999	Liang	D579,096	S	10/2008	Guzorek
5,879,232	A	3/1999	Luter, II et al.	D582,905	S	12/2008	Takisawa et al.
D408,514	S	4/1999	Hornig	7,469,508	B2	12/2008	Ceria
5,890,322	A	4/1999	Fears	7,470,179	B1	12/2008	Ritter et al.
D409,741	S	5/1999	Yuen-Ming	D588,255	S	3/2009	Daniels
5,968,287	A	10/1999	Nath	D588,256	S	3/2009	Daniels
5,990,414	A	11/1999	Posnansky	D589,134	S	3/2009	O'Hagin et al.
6,005,236	A	12/1999	Phelan et al.	7,497,774	B2	3/2009	Stevenson et al.
6,008,450	A	12/1999	Ohtsuka et al.	7,506,477	B2	3/2009	Flaherty et al.
6,036,102	A	3/2000	Pearson	7,507,151	B1	3/2009	Parker et al.
6,050,039	A	4/2000	O'Hagin	7,509,775	B2	3/2009	Flaherty et al.
6,051,774	A	4/2000	Yoshida et al.	7,517,465	B2	4/2009	Guha et al.
D424,672	S	5/2000	Nanjo	7,531,740	B2	5/2009	Flaherty et al.
6,061,977	A	5/2000	Toyama et al.	7,578,102	B2	8/2009	Banister
6,061,978	A	5/2000	Dinwoodie et al.	7,587,864	B2	9/2009	McCaskill et al.
6,077,159	A	6/2000	Clayton	7,618,310	B2	11/2009	Daniels
6,105,317	A	8/2000	Tomiuchi et al.	7,642,449	B2	1/2010	Korman et al.
6,129,628	A	10/2000	O'Hagin	D610,245	S	2/2010	Daniels
6,155,006	A	12/2000	Mimura et al.	D612,040	S	3/2010	Daniels
6,220,956	B1	4/2001	Kilian et al.	7,678,990	B2	3/2010	McCaskill et al.
D442,273	S	5/2001	Pestell	D618,780	S	6/2010	Williams, Sr.
6,241,602	B1	6/2001	Allen	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
D685,112 S 6/2013 Henriquez
D685,113 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 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 F24F 7/02
454/366
D748,239 S * 1/2016 Daniels D23/373
D755,944 S * 5/2016 Daniels D23/373
2001/0027804 A1 10/2001 Inoue et al.
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.
2007/0207725 A1 9/2007 O'Hagin
2007/0243820 A1 10/2007 O'Hagin
2007/0246095 A1 10/2007 Schaefer
2008/0040990 A1 2/2008 Vendig et al.
2008/0098672 A1 5/2008 O'Hagin et al.
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.
2010/0229940 A1 9/2010 Basol
2010/0287852 A1 11/2010 Bortoletto
2010/0330898 A1 12/2010 Daniels

2011/0294412 A1 12/2011 Vagedes
2012/0110924 A1 5/2012 Makin
2012/0151856 A1 6/2012 Azoulay
2012/0190288 A1 7/2012 Willen
2012/0322359 A1 12/2012 Chen et al.
2013/0040553 A1 2/2013 Potter
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.
2015/0143760 A1* 5/2015 Daniels E04D 13/00
52/173.1
2015/0253021 A1* 9/2015 Daniels E04D 1/30
454/341

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	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	2004-092298	3/2004
JP	2007-534924	11/2007
WO	WO 2005/108708	11/2005

OTHER PUBLICATIONS

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/export/QPTUJ214/pdf2/5f7850ea-f617-4548-bc47-08c3edb41ca0-222833.pdf>>.
Flat-Type Vent. Formfonts.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/ohagins-concrete-tile-vent-type-flat!>](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. Formfonts.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. Formfonts.com[online] 1 page. Designed/built 2008 [retrieved on Feb. 12, 2015]. <<https://www.formfonts.com/3D-Model/111031/1/shell/b30-roofing/b301-O-roof-coverings/b3020-roof-openings/ohagins-concrete-tile-vent-type-config/>>>.

* cited by examiner

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

(57) 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;

FIG. 6 is a left 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 with an integrated fan for clarity;

FIG. 8 is a top exploded perspective view of the roof vent assembly of FIG. 1, shown with a solar panel, and a lower vent member with an integrated fan and an upper fan screen;

FIG. 9 is a top exploded perspective view of the roof vent assembly of FIG. 1, shown with a flexible solar panel, and a lower vent member with an integrated fan and an upper fan screen;

FIG. 10 is a top exploded perspective view of the roof vent assembly of FIG. 1, shown with flexible solar panels, and a lower vent member with an integrated fan and an upper fan screen;

FIG. 11 is a bottom exploded perspective view of the roof vent assembly of FIG. 1, showing a lower vent member with an integrated fan for clarity; and,

FIG. 12 is a bottom exploded perspective view of the roof vent assembly of FIG. 1, shown with a lower vent member with an integrated fan and a lower fan screen.

1 Claim, 10 Drawing Sheets

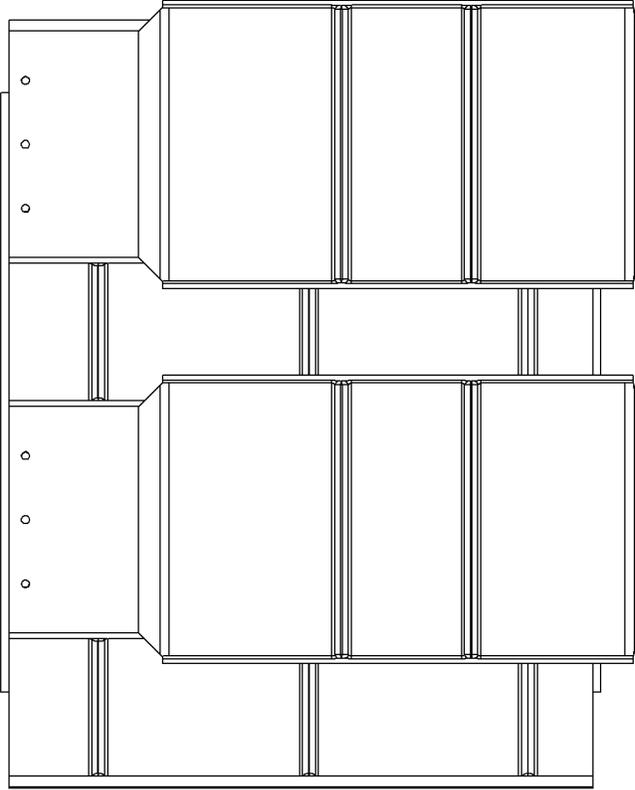


FIG. 1

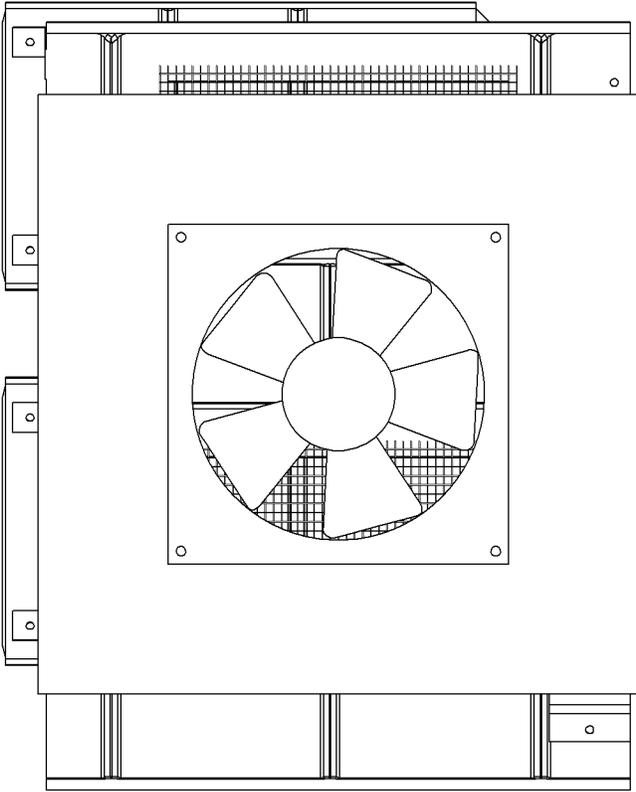


FIG. 2

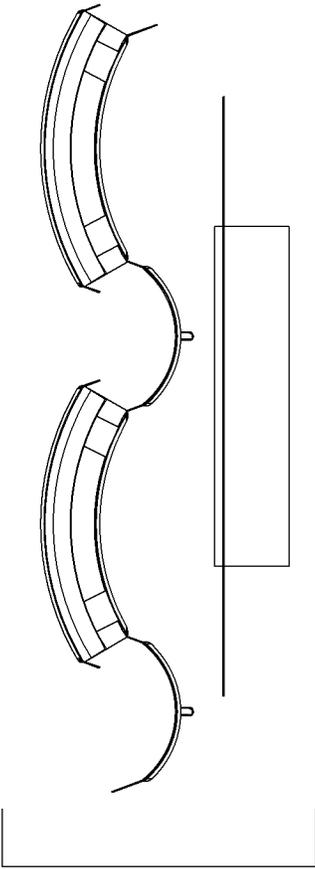


FIG. 3

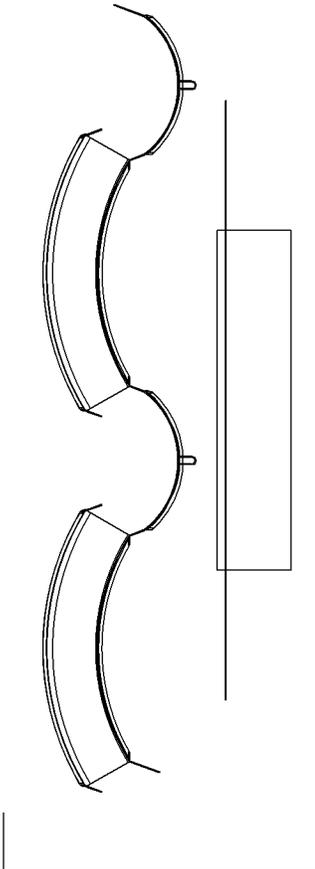


FIG. 4

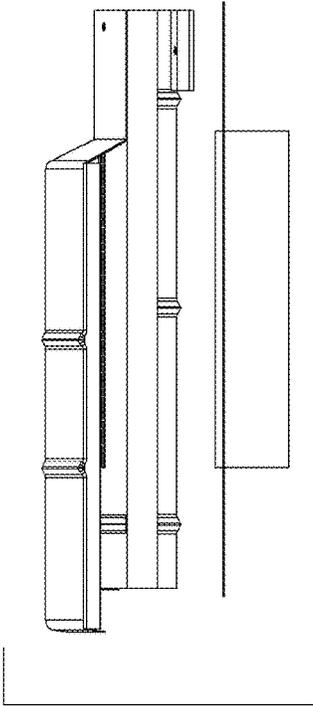


FIG. 5

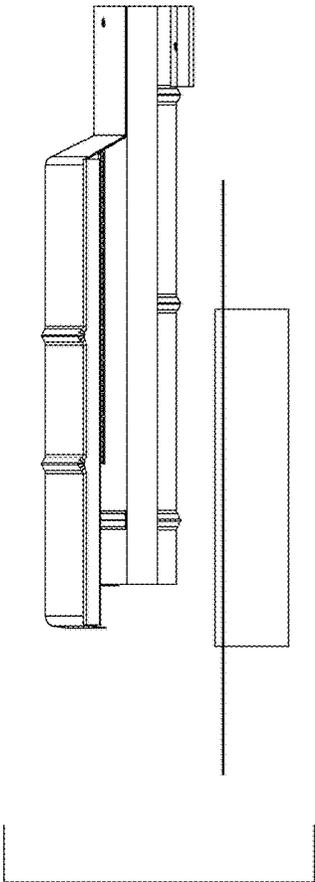


FIG. 6

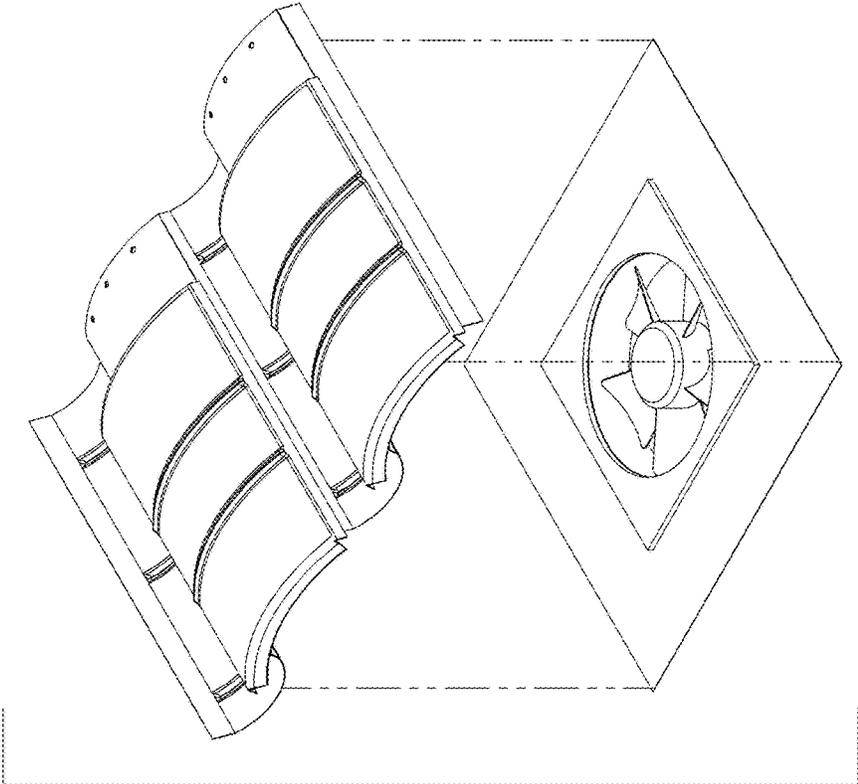


FIG. 7

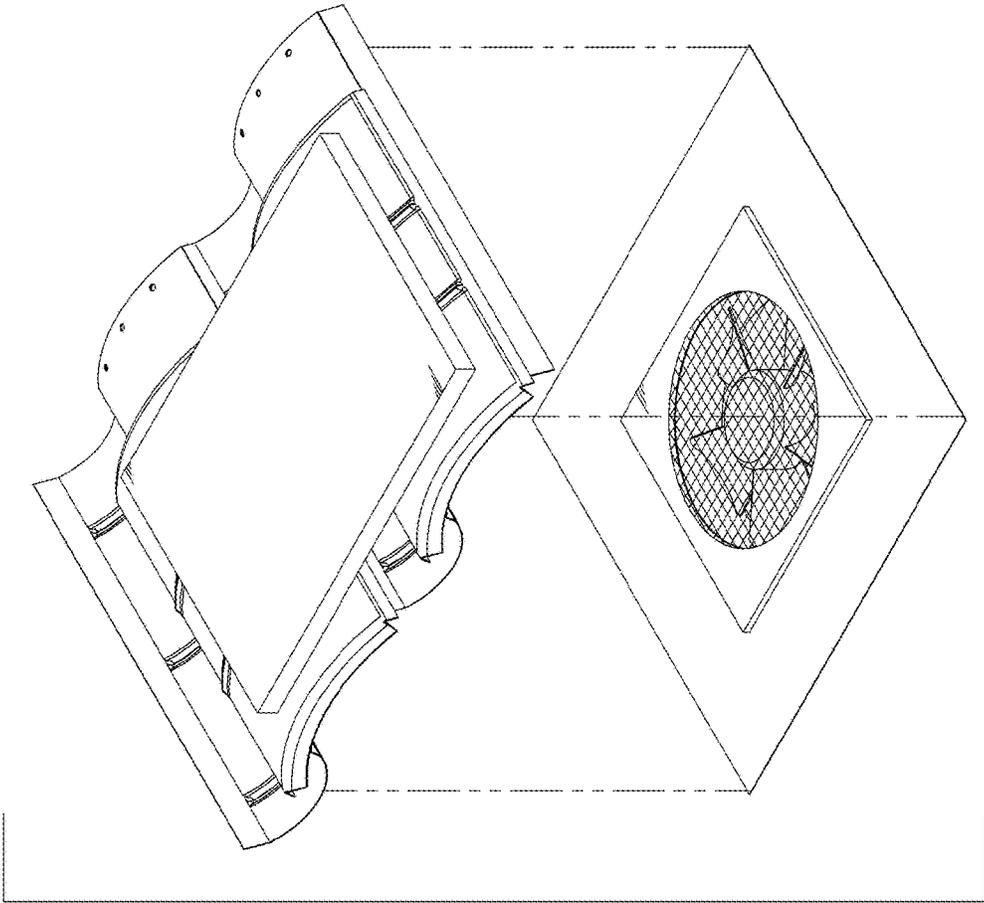


FIG. 8

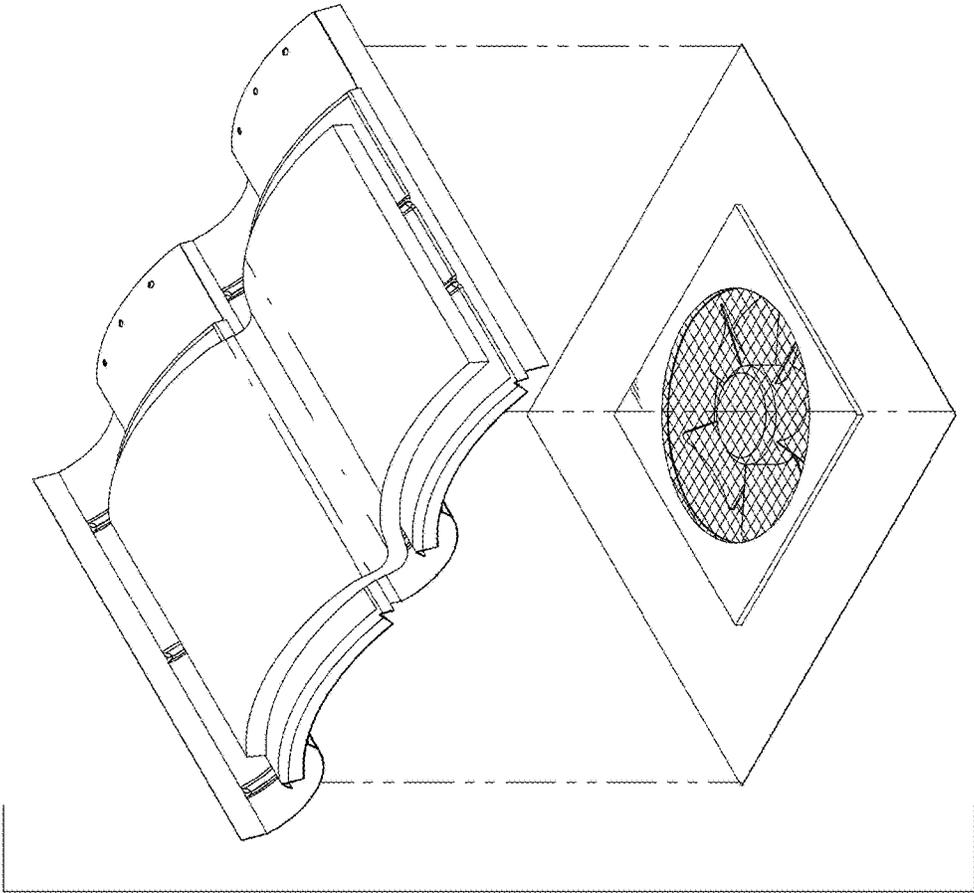


FIG. 9

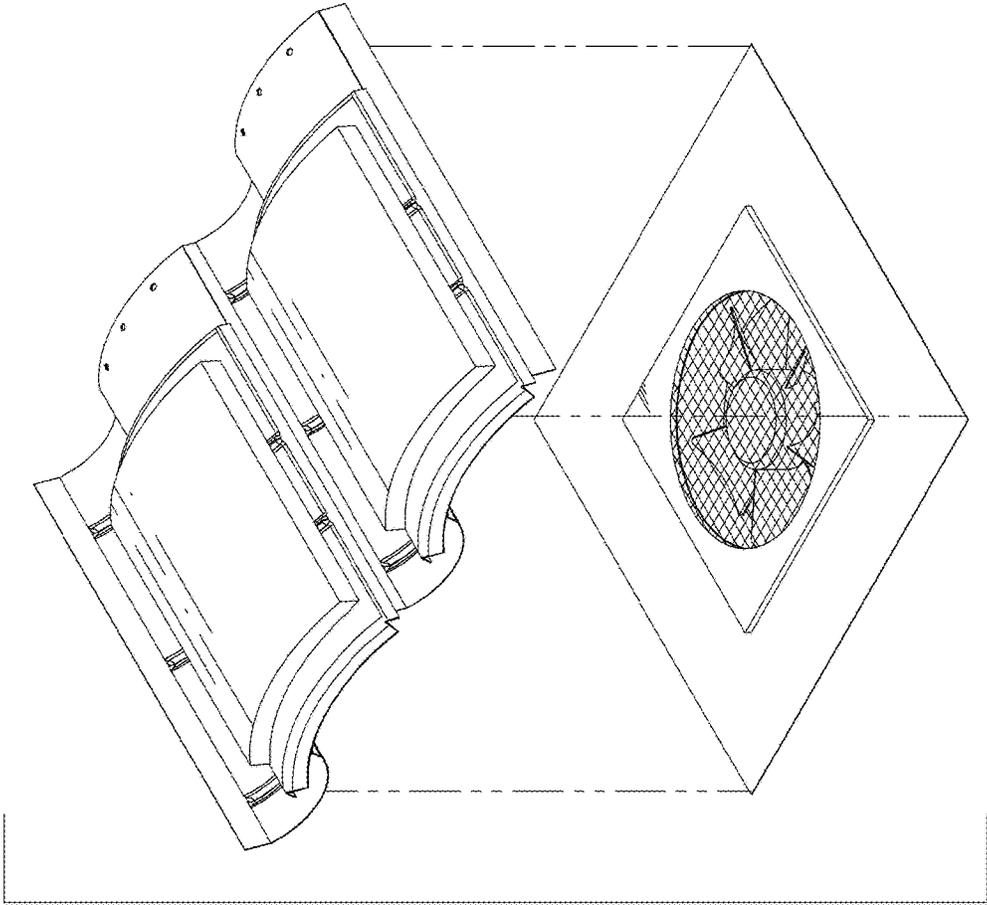


FIG. 10

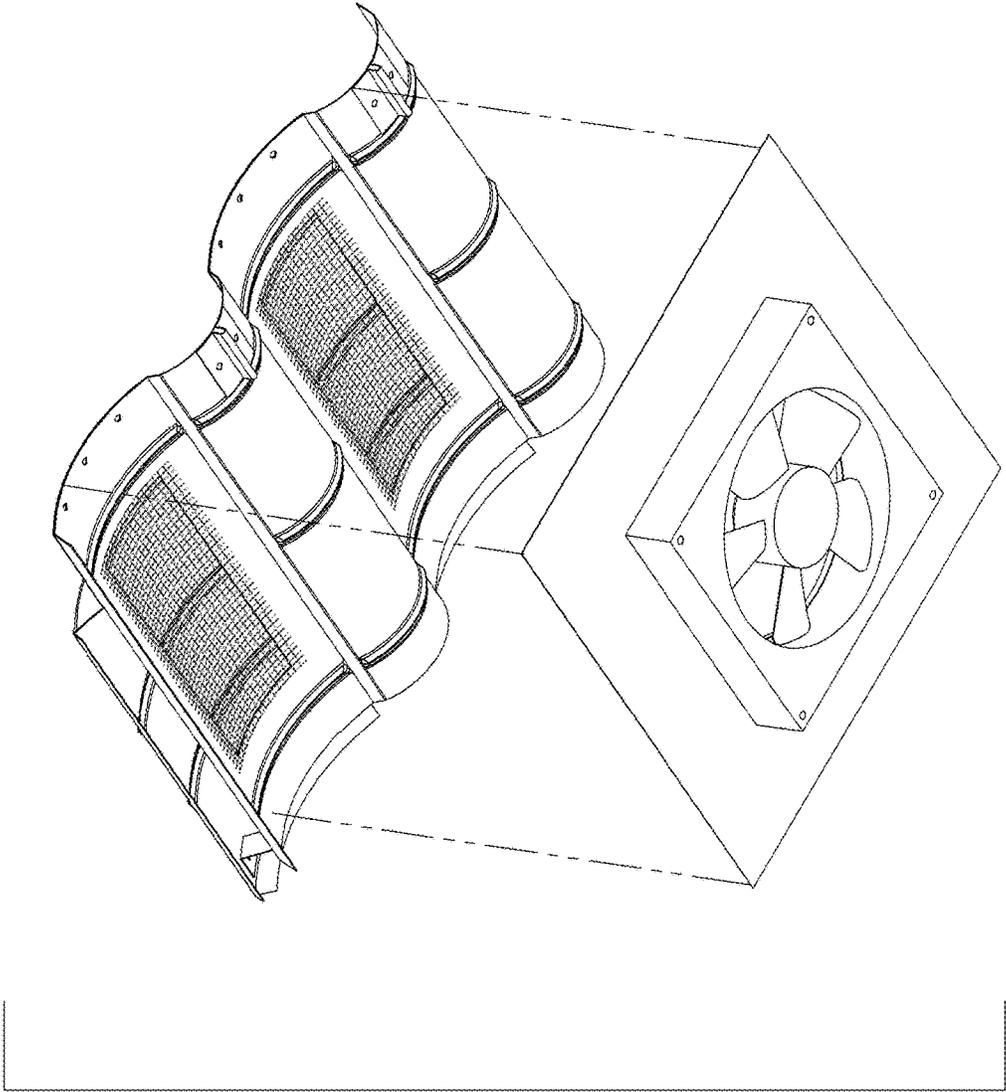


FIG. II

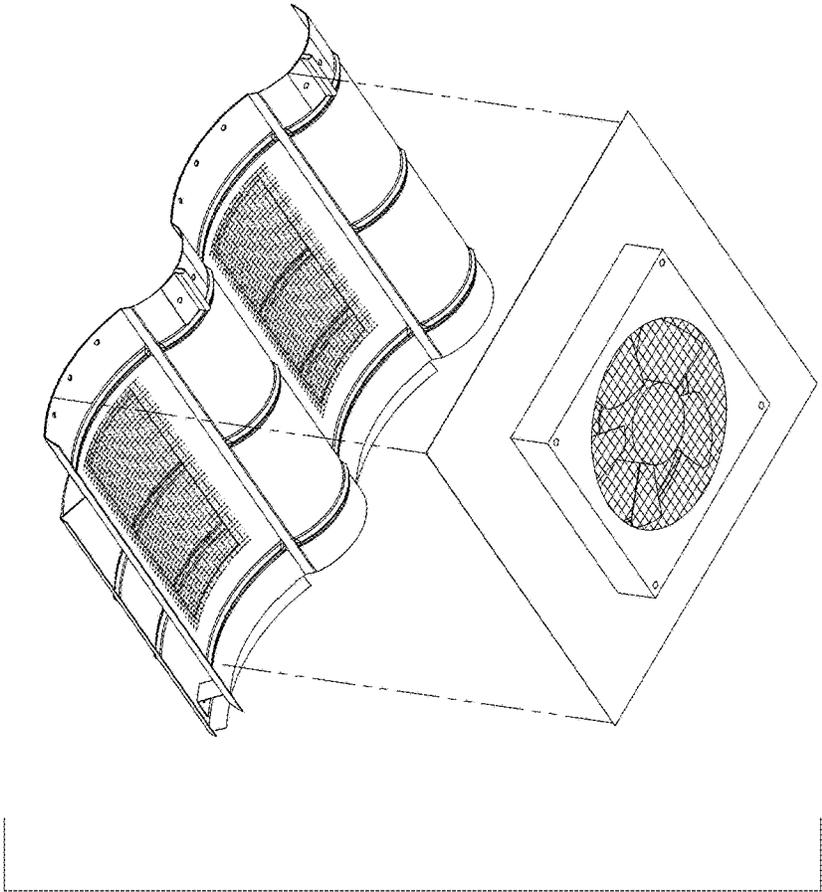


FIG. 12