



US00D785776S

(12) **United States Design Patent** (10) **Patent No.:** **US D785,776 S**
Hirano (45) **Date of Patent:** **** May 2, 2017**

(54) **FAN FILTER UNIT**

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(**) Term: **14 Years**

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(51) **LOC (10) Cl.** **23-04**

(52) **U.S. Cl.** **D23/370**

(58) **Field of Classification Search**

USPC D23/370-387, 411-414, 365, 355, 342, D23/332, 328, 337, 335, 314, 393; 415/60, 66, 68, 208.1, 213.1, 214.1, 415/209.3; 310/257; 361/695; 126/299 D, 299 R
CPC F01D 9/042; F04D 25/08; F04D 29/70; F24F 7/007; F24F 13/082; F24F 7/065; F24F 13/078; F24F 7/04; F24F 7/02; B01D 46/00; H05K 7/20
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,102,681 A * 12/1937 Curtis F24F 13/06 454/331
D122,133 S * 8/1940 Bedol D23/387
D131,009 S * 1/1942 Leslie D23/373

D131,010 S * 1/1942 Leslie D23/373
2,284,912 A * 6/1942 Collins F24F 13/1426 126/285 R
D155,345 S * 9/1949 Johnson D23/373
2,636,429 A * 4/1953 Parsons F24F 7/02 454/366
D226,609 S * 4/1973 Drew D23/373
D226,636 S * 4/1973 Van Doren, Jr. D23/335
D376,842 S * 12/1996 Franklin D23/314
D402,748 S * 12/1998 Cuomo D23/386
D448,468 S * 9/2001 Koessler D23/373
D456,551 S * 4/2002 Russello D26/85
D495,047 S * 8/2004 Gilbert D23/387
D558,321 S * 12/2007 Kramer D23/370
D578,200 S * 10/2008 Hedlund D23/371
D587,796 S * 3/2009 Reese D23/370
D594,964 S * 6/2009 Miyake D23/393

(Continued)

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(57) **CLAIM**

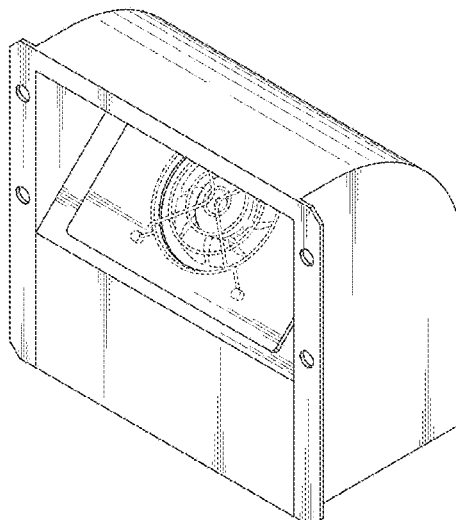
I claim the ornamental design for a fan filter unit, as shown and described.

DESCRIPTION

FIG. 1 is a front, top and right side perspective view of an fan filter unit showing our new design;
FIG. 2 is a front elevational view thereof;
FIG. 3 is a rear elevational view thereof;
FIG. 4 is a left side elevational view thereof;
FIG. 5 is a right side elevational view thereof;
FIG. 6 is a top plan view thereof;
FIG. 7 is a bottom plan view thereof; and,
FIG. 8 is a cross-sectional view taken along lines 8-8 in FIG. 2.

The broken lines shown in the drawings represent portions of the fan filter unit that form no part of the claimed design.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D674,077	S	*	1/2013	Miyake		D23/372
D678,994	S	*	3/2013	Miyake		D23/371
D716,424	S	*	10/2014	Merrill		D23/314
2010/0051010	A1	*	3/2010	Colburn		F24C 15/2028
						126/299 D

* cited by examiner

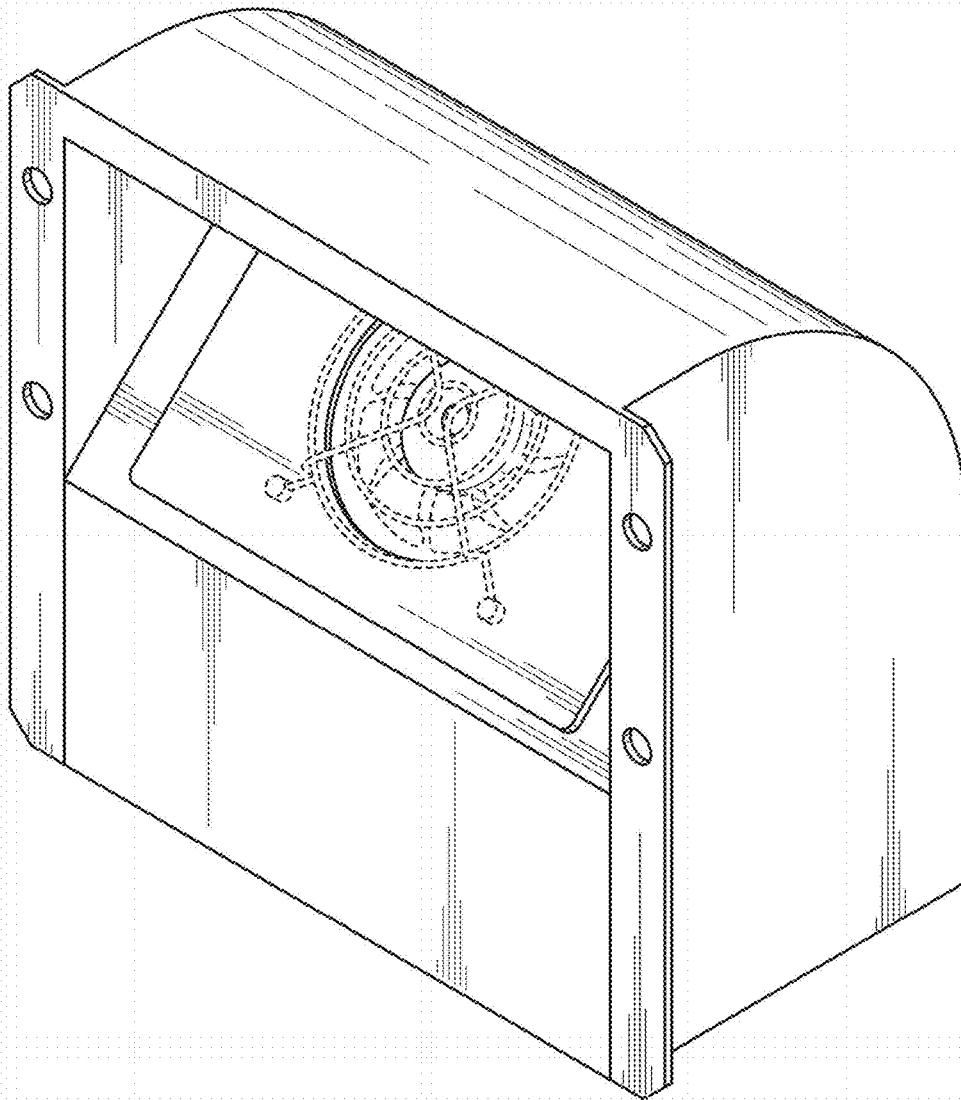


FIG. 1

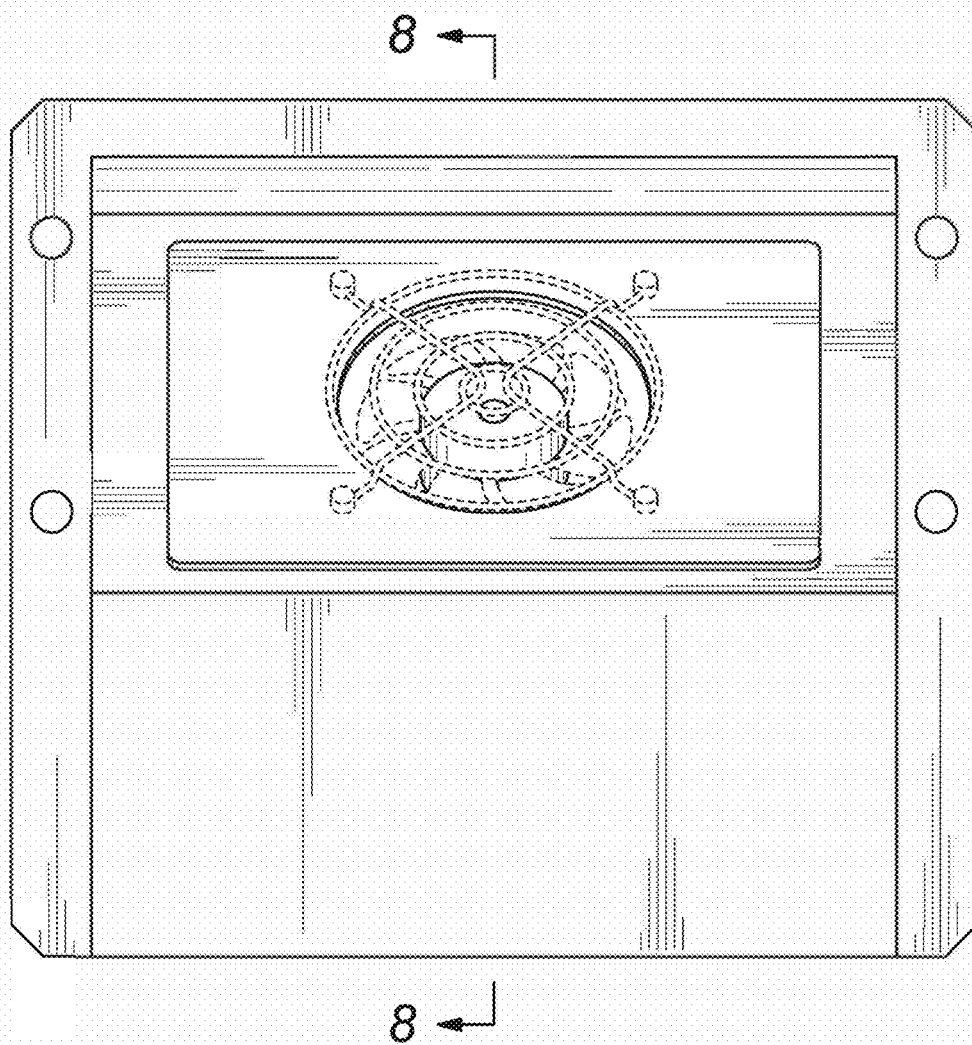


FIG. 2

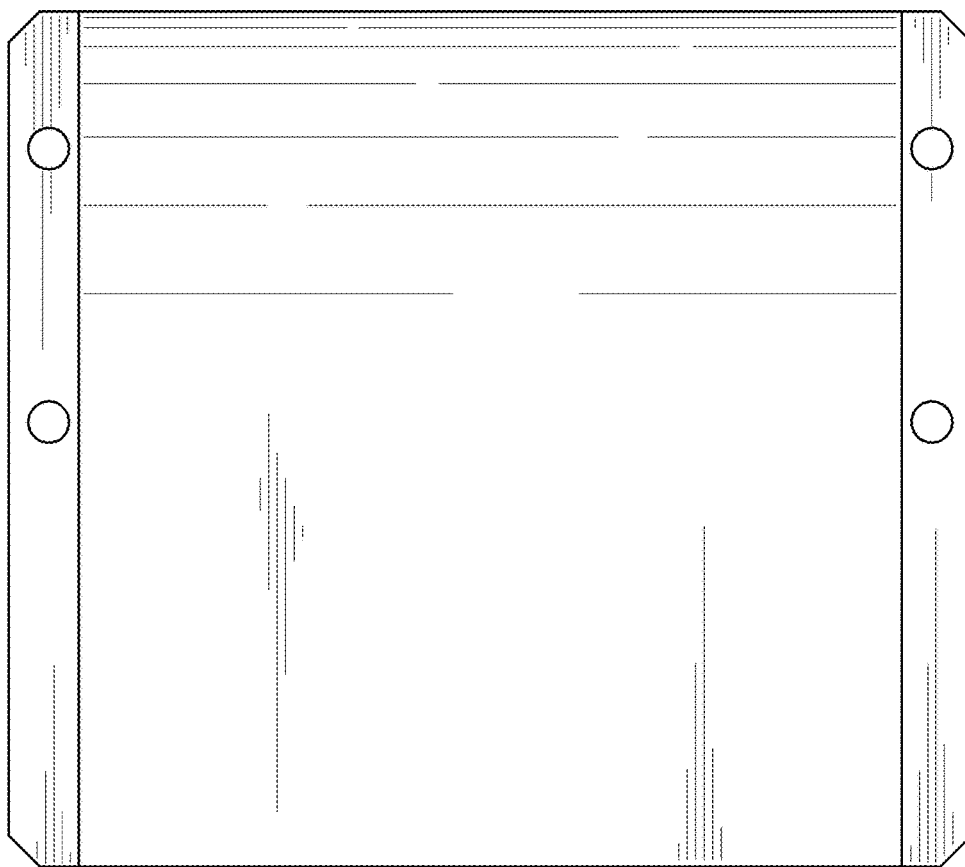


FIG. 3

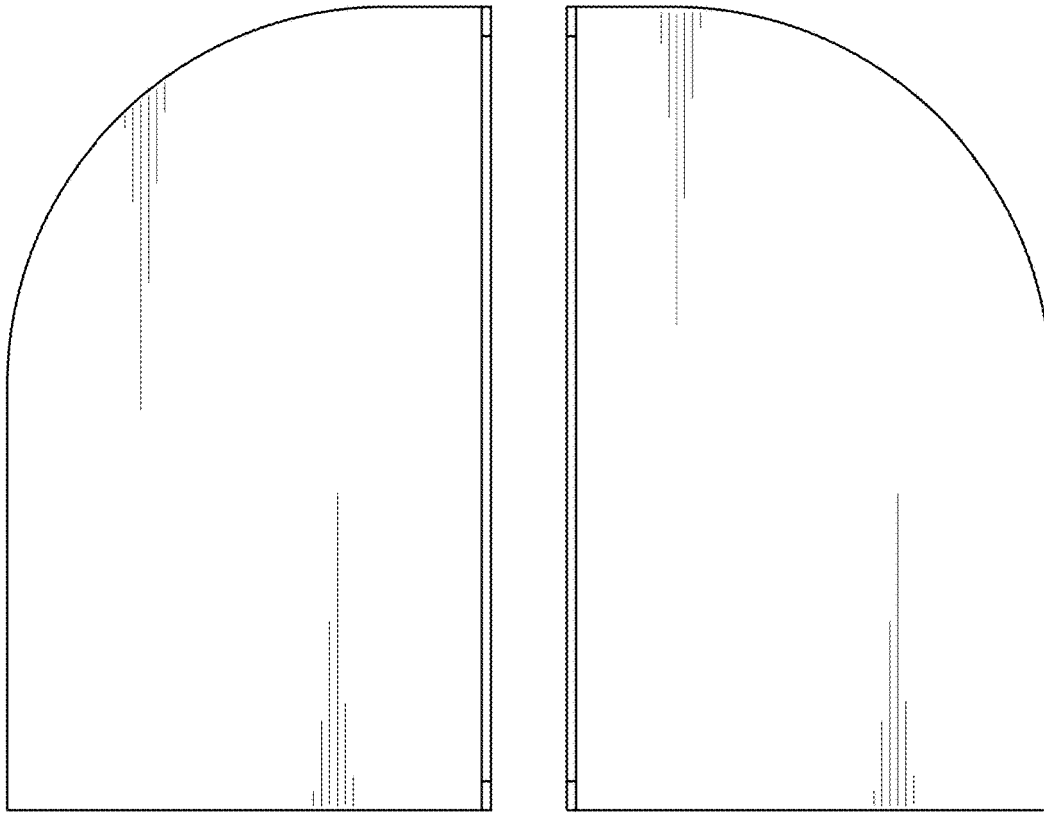


FIG. 4

FIG. 5



FIG. 6

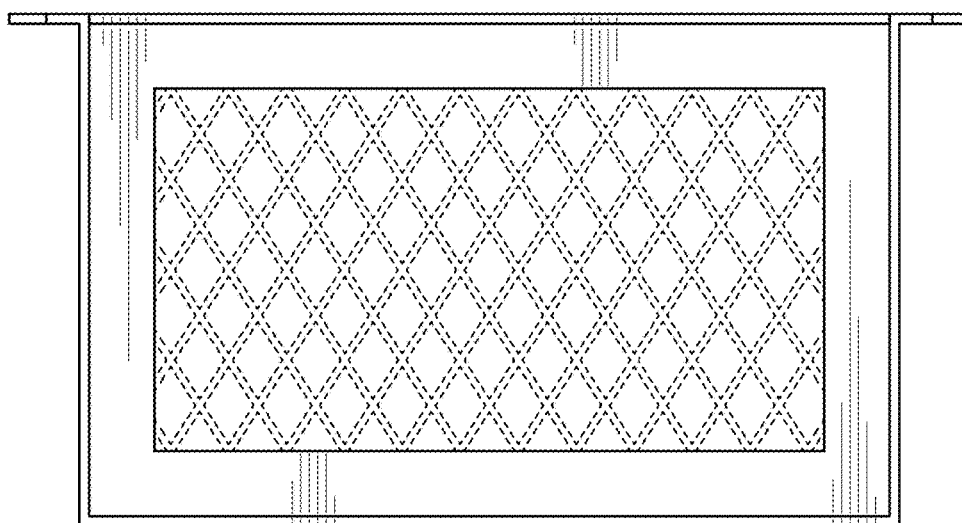


FIG. 7

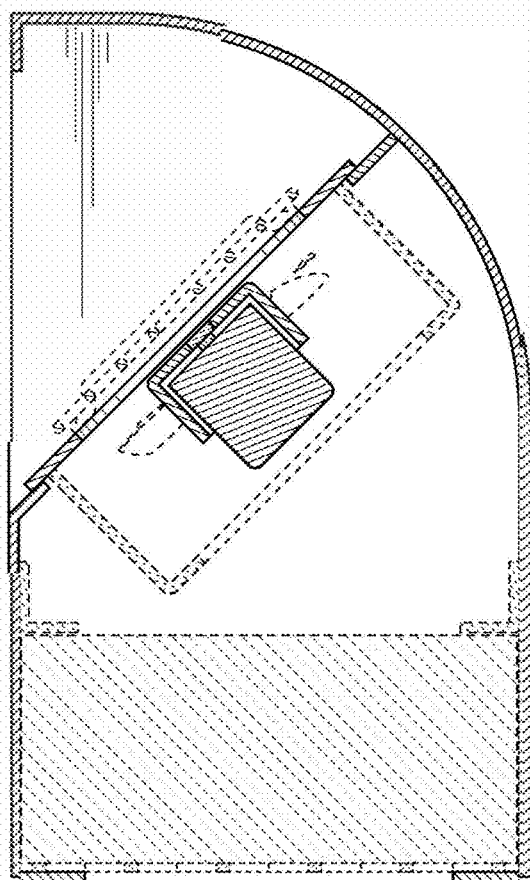


FIG. 8