



US0D1089325S

(12) **United States Design Patent** (10) **Patent No.:** **US D1,089,325 S**
Hausauer (45) **Date of Patent:** **** Aug. 19, 2025**

(54) **AIR FILTER SEAL**
(71) Applicant: **Caterpillar Inc.**, Peoria, IL (US)
(72) Inventor: **Ryan Barry Hausauer**, Chillicothe, IL (US)
(73) Assignee: **Caterpillar Inc.**, Peoria, IL (US)
(**) Term: **15 Years**
(21) Appl. No.: **29/895,441**
(22) Filed: **Jun. 21, 2023**
(51) **LOC (15) Cl.** **23-01**
(52) **U.S. Cl.**
USPC **D23/269**
(58) **Field of Classification Search**
USPC D15/28, 17, 5; D32/31; D23/365, 209,
D23/363, 358, 386, 354, 341, 364, 269,
D23/262, 266, 393
CPC B01D 2241/02; F16L 23/16; F16J 15/104;
F16J 15/062
See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS

D256,046 S * 7/1980 Perrin D23/269
D322,120 S * 12/1991 du Gay D23/269
5,556,440 A * 9/1996 Mullins B01D 46/2414
55/498
D379,493 S * 5/1997 Woods D23/269
D437,402 S * 2/2001 Gieseke D23/365
D450,827 S * 11/2001 Gieseke B01D 46/527
D23/365
D464,129 S * 10/2002 Xu D23/365
D515,675 S * 2/2006 Tremoulet, Jr. D23/269
D526,705 S * 8/2006 Wortmann D23/269
D527,445 S * 8/2006 Wortmann D23/269
D529,146 S * 9/2006 Wortmann D23/269
D551,336 S * 9/2007 Haggkvist D23/386

D553,238 S * 10/2007 Haggkvist D23/386
D572,348 S * 7/2008 Arosio D23/269
D616,966 S * 6/2010 Angell D23/262
D631,142 S * 1/2011 Angell D23/262
7,905,936 B2 * 3/2011 Coulonvaux B01D 46/4227
55/357
8,034,145 B2 * 10/2011 Boehrs B01D 46/526
55/502
D681,176 S * 4/2013 Chacko D23/269
D697,180 S * 1/2014 van de Klippe D23/269
9,358,489 B2 6/2016 Kaufmann et al.
D761,407 S * 7/2016 Spear D23/365
9,630,475 B2 4/2017 Bayerlein et al.
D786,935 S * 5/2017 Krull D15/5
9,861,924 B2 * 1/2018 Roesgen F02M 35/02416
10,195,558 B2 2/2019 Dye et al.
10,258,913 B2 * 4/2019 Osendorf B01D 46/2414
D867,346 S * 11/2019 Hofstede D14/222
D895,076 S * 9/2020 Kuroda D23/269

(Continued)

OTHER PUBLICATIONS

avspare.com, Filter GP-CAB 4419252—Caterpillar, <<https://spare.avspart.com/caterpillar/filter/4419252/>>, available as early as 2023.

Primary Examiner — Mark A Goodwin

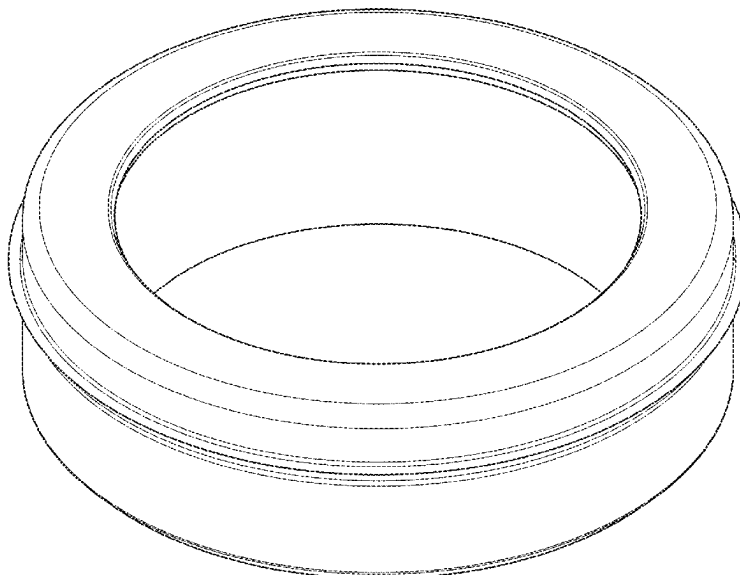
(57) **CLAIM**

The ornamental design for an air filter seal as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of an air filter seal showing my new design;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a left side view thereof;
FIG. 5 is a right side view thereof;
FIG. 6 is a top view thereof; and,
FIG. 7 is a bottom view thereof.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D927,656	S *	8/2021	Kim	D23/269
11,331,615	B2	5/2022	Williams et al.	
D999,885	S *	9/2023	Huntley	D23/269
D1,002,792	S *	10/2023	Proost	D23/365
D1,036,632	S *	7/2024	Suzuki	D23/269
D1,048,327	S *	10/2024	Pless	D23/269
2003/0182911	A1 *	10/2003	Schrage	B01D 46/2414 55/498
2005/0229563	A1 *	10/2005	Holzmann	B01D 46/2414 55/502
2007/0240394	A1 *	10/2007	Ehrenberg	B01D 46/0001 55/498
2011/0000174	A1 *	1/2011	Kapelarie	F02M 35/024 55/492
2013/0305672	A1 *	11/2013	Adkins	B01D 46/2411 55/498
2014/0102058	A1 *	4/2014	Kaufmann	B01D 46/56 55/482
2016/0230714	A1 *	8/2016	Roesgen	F02M 35/02416
2020/0164298	A1 *	5/2020	Drabek	H02K 11/05
2021/0299601	A1 *	9/2021	Ruhland	B01D 46/0046

* cited by examiner

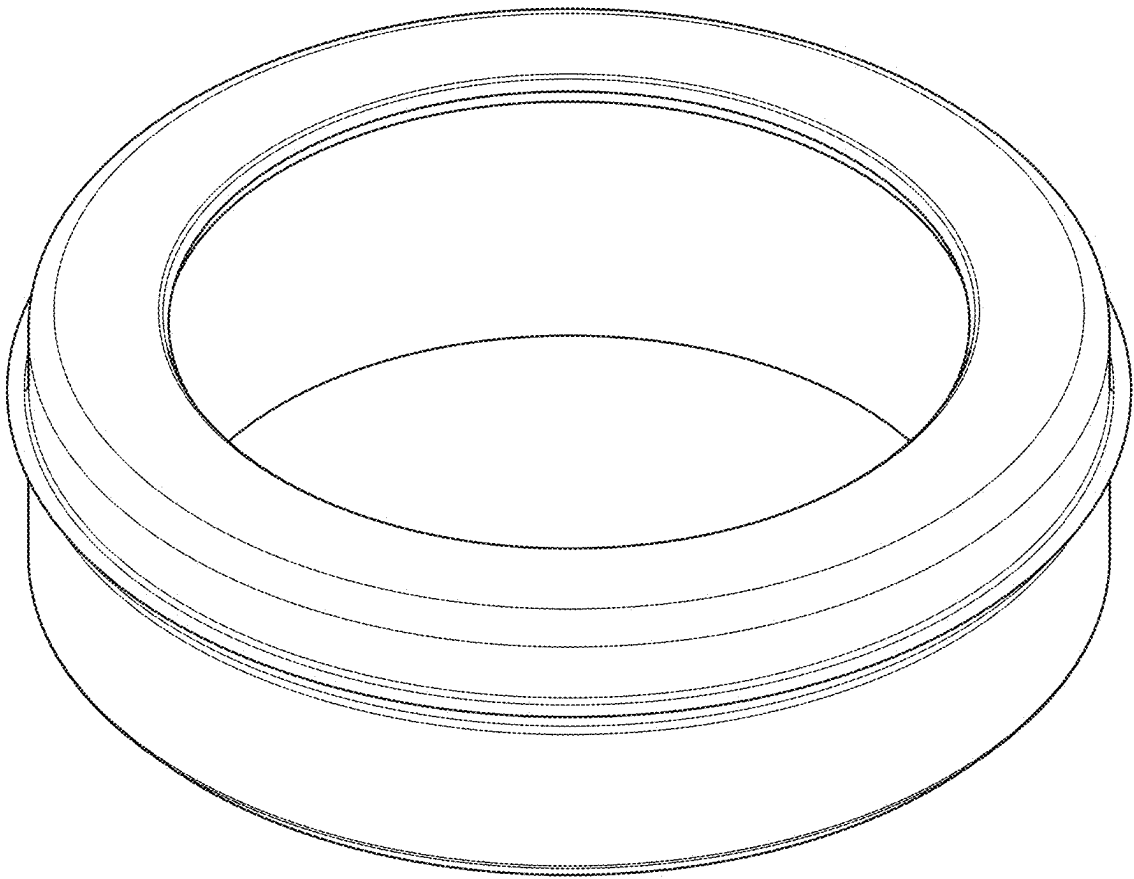


FIG. 1



FIG. 2

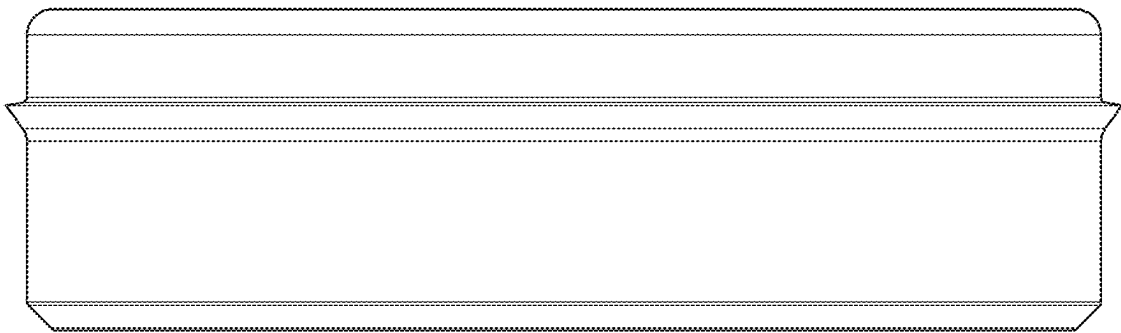


FIG. 3

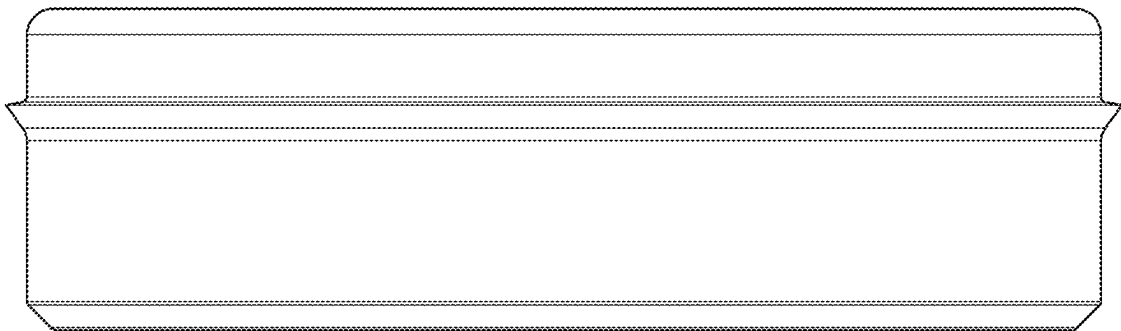


FIG. 4

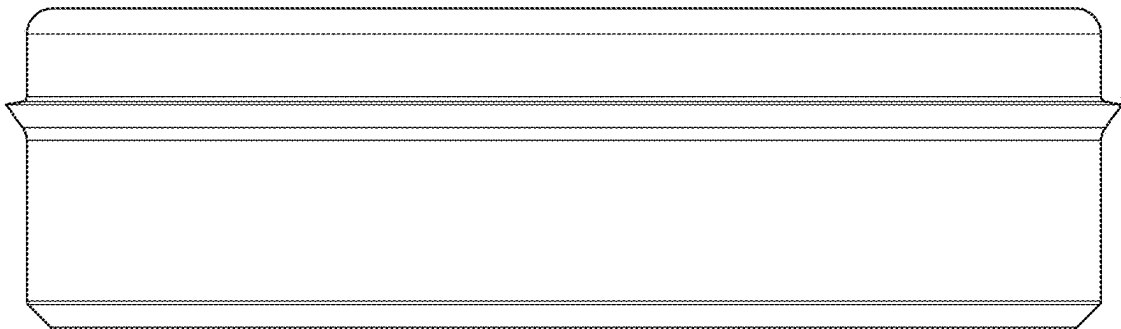


FIG. 5

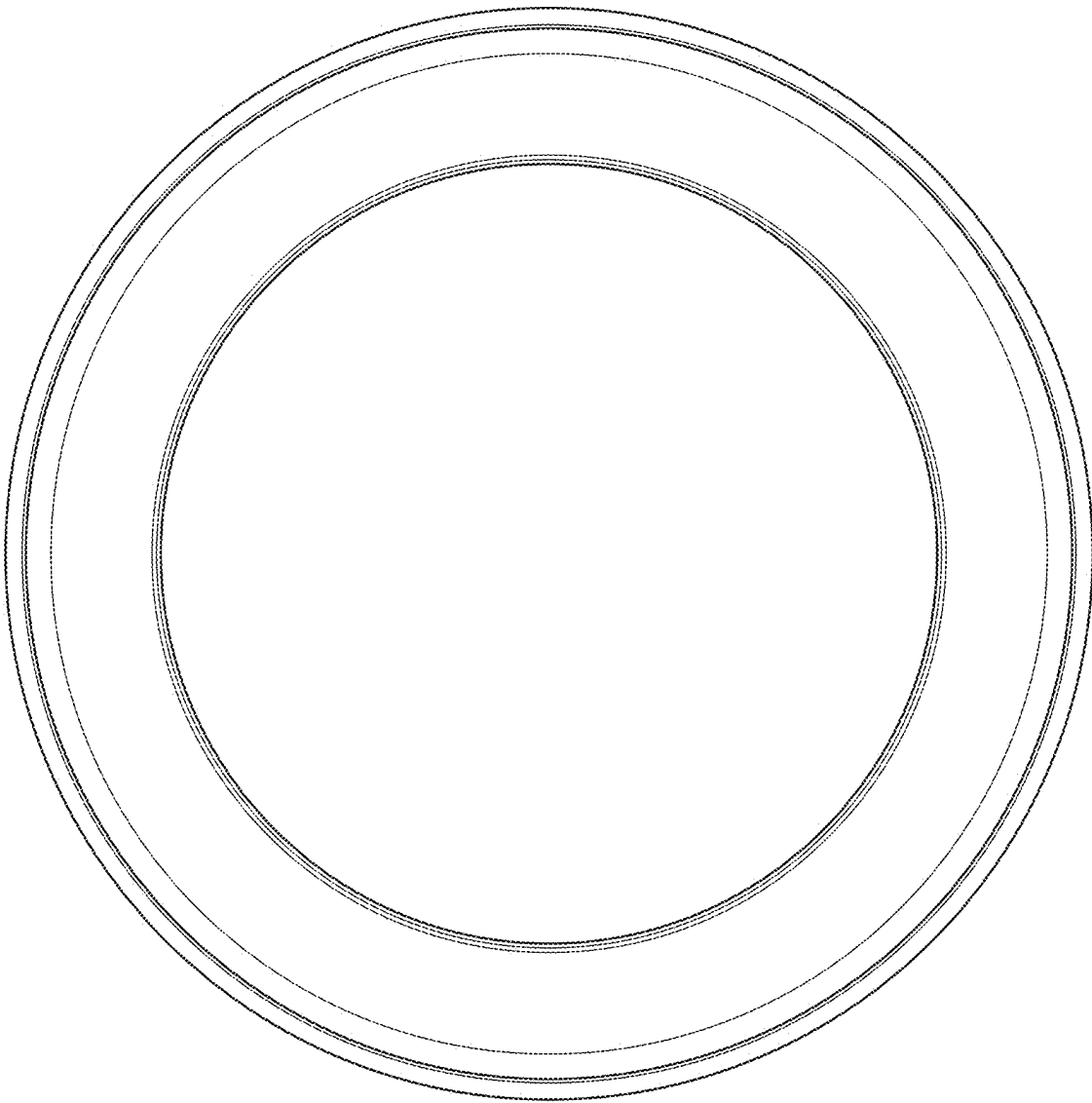


FIG. 6

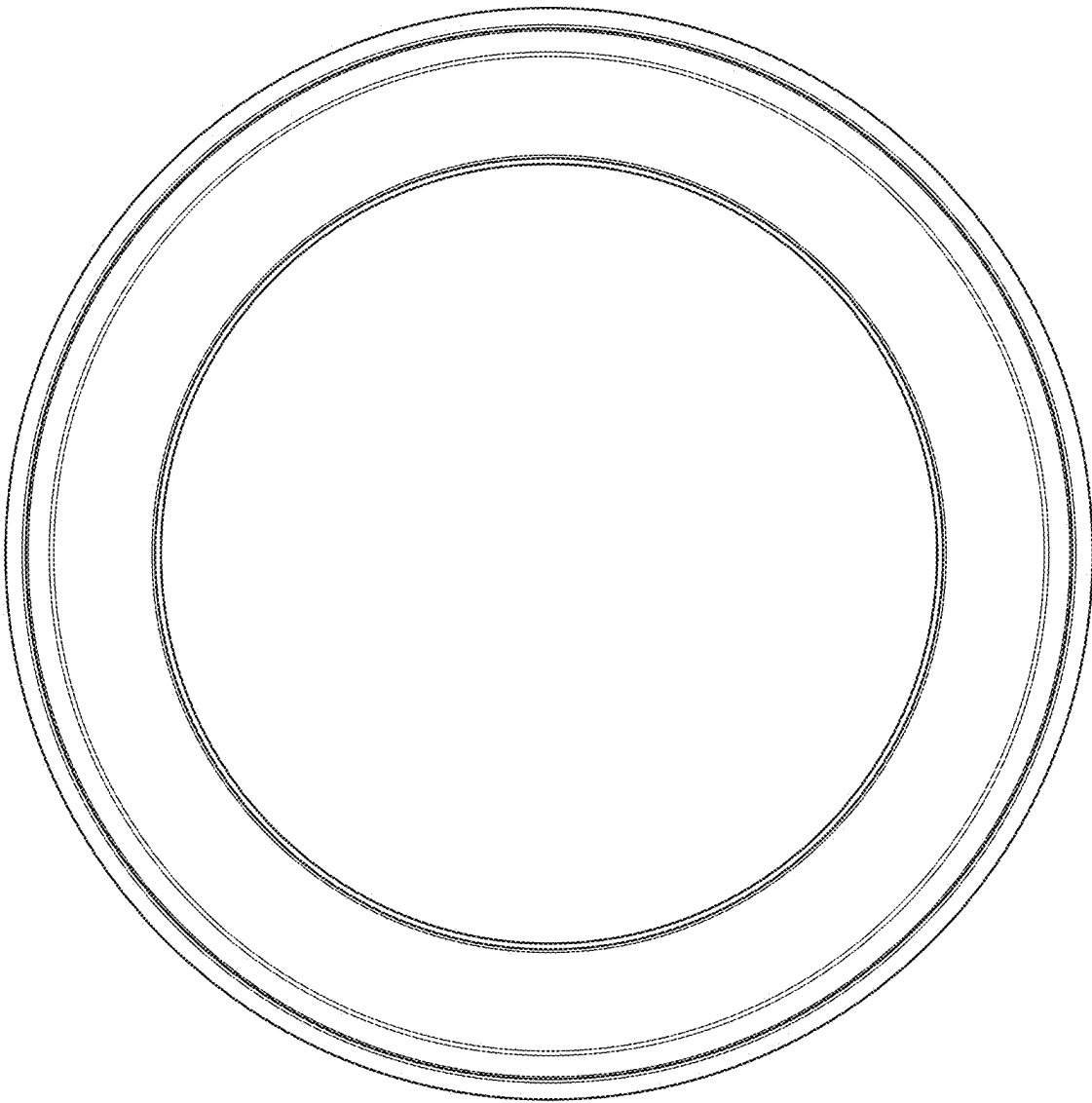


FIG. 7