



US00D793520S

(12) **United States Design Patent** (10) **Patent No.:** **US D793,520 S**
Reckin et al. (45) **Date of Patent:** **** Aug. 1, 2017**

- (54) **FILTER CARTRIDGE**
- (71) Applicant: **Pentair Residential Filtration, LLC**,
Glendale, WI (US)
- (72) Inventors: **Richard Reckin**, Glendale, WI (US);
Tedd M. Schneidewend, Milwaukee,
WI (US)
- (73) Assignee: **Pentair Residential Filtration, LLC**,
Glendale, WI (US)

- 3,950,251 A 4/1976 Hiller
- 3,970,284 A 7/1976 Cobbe, Jr.
- D243,767 S * 3/1977 Rutherford D23/207
- 4,379,053 A 4/1983 Brane
- 4,515,692 A 5/1985 Chandler et al.
- 4,645,601 A 2/1987 Regunathan et al.
- 4,735,716 A 4/1988 Petrucci et al.
- 4,806,240 A 2/1989 Giordano et al.
- 4,818,397 A 4/1989 Joy
- 4,857,189 A 8/1989 Thomsen et al.

(Continued)

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

(21) Appl. No.: **29/549,083**

(22) Filed: **Dec. 18, 2015**

FOREIGN PATENT DOCUMENTS

- DE 2458784 6/1976
- DE 2719875 11/1978

(Continued)

OTHER PUBLICATIONS

Pentair Residential Filtration, LLC; "Water Filtration System and Method;" PCT/US14/44418; International Search Report & Written Opinion, filed Jun. 26, 2014.

Primary Examiner — Robin V Webster

(74) *Attorney, Agent, or Firm* — Quarles & Brady LLP

Related U.S. Application Data

(62) Division of application No. 29/495,086, filed on Jun. 26, 2014, now Pat. No. Des. 755,344.

(51) **LOC (10) Cl.** **23-01**

(52) **U.S. Cl.**
USPC **D23/209**

(58) **Field of Classification Search**
USPC D23/207, 209, 262, 259, 265; 210/232,
210/234, 236, 418, 493.2; D8/382;
285/360, 361

CPC B01D 2201/291; B01D 2201/293; B01D
2201/296; B01D 2201/298; B01D
2201/301–2201/306; B01D 35/153; B01D
35/157; B01D 35/30; B01D 29/111

See application file for complete search history.

(57)

CLAIM

The ornamental design for a filter cartridge, as shown and described.

DESCRIPTION

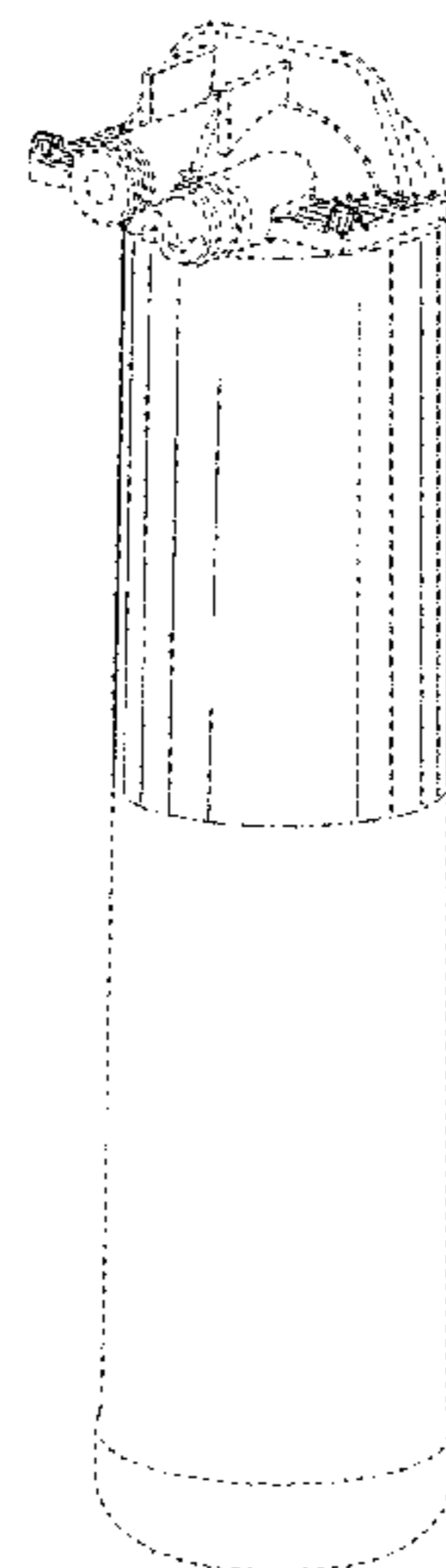
The FIGURE is a filter cartridge showing the new design. The broken lines showing the filter cartridge are included for the purpose of illustrating environmental structure and form no part of the claimed design. The dash-dot-dash-dot broken lines on the filter cartridge of the FIGURE depict a lower boundary that indicates any portion of the filter beyond what is shown forms no part of the claimed design. The rear isometric view of the FIGURE forms no part of the claimed design.

1 Claim, 1 Drawing Sheet

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 3,289,847 A 12/1966 Rothmund
- 3,399,776 A 9/1968 Knuth
- 3,493,115 A 2/1970 Koches
- D220,263 S 3/1971 Hughes
- 3,746,171 A 7/1973 Thomsen



(56)

References Cited

U.S. PATENT DOCUMENTS

4,857,191 A 8/1989 Wolf
 4,877,521 A 10/1989 Petrucci et al.
 4,915,831 A 4/1990 Taylor
 4,923,601 A 5/1990 Drori
 4,948,505 A 8/1990 Petrucci et al.
 4,956,086 A 9/1990 Thomsen et al.
 5,013,434 A 5/1991 Furrow
 5,108,598 A 4/1992 Posner
 5,126,044 A 6/1992 Magnusson et al.
 5,215,655 A 6/1993 Mittermaier
 5,269,919 A 12/1993 von Medlin
 5,316,347 A 5/1994 Arosio
 5,328,609 A 7/1994 Magnusson et al.
 5,334,309 A 8/1994 Huggett et al.
 5,336,406 A 8/1994 Stanford et al.
 5,354,464 A 10/1994 Slovak et al.
 D357,058 S 4/1995 Engelhard
 5,486,288 A 1/1996 Stanford et al.
 5,507,530 A 4/1996 Mahaney
 5,548,893 A 8/1996 Koelfgen
 5,562,824 A 10/1996 Magnusson
 5,591,332 A 1/1997 Reid et al.
 5,653,871 A 8/1997 Thomsen
 5,744,030 A 4/1998 Reid et al.
 5,753,107 A 5/1998 Magnusson et al.
 5,762,787 A 6/1998 Park et al.
 5,782,171 A 7/1998 Crain et al.
 5,826,854 A 10/1998 Janvrin et al.
 6,027,644 A 2/2000 Magnusson et al.
 6,068,770 A 5/2000 Niermeyer et al.
 6,120,685 A 9/2000 Carlson et al.
 D433,094 S 10/2000 Magnusson et al.
 6,193,884 B1 2/2001 Magnusson et al.
 6,303,031 B1 10/2001 Senner
 6,325,929 B1 12/2001 Bassett
 6,360,764 B1 3/2002 Fritze
 D455,814 S 4/2002 Magnusson et al.
 6,378,907 B1 4/2002 Campbell et al.
 6,443,498 B1 9/2002 Liao
 6,458,269 B1 10/2002 Bassett et al.
 D481,441 S 10/2003 Liu
 6,632,355 B2 10/2003 Fritze
 6,776,906 B2 8/2004 Reid
 6,926,826 B2 8/2005 Reid
 7,000,894 B2 2/2006 Olson et al.
 7,021,667 B2 4/2006 Campbell et al.
 7,093,721 B2 8/2006 Imanse et al.

7,138,052 B2 11/2006 Reid
 7,147,772 B2 12/2006 Fritze
 7,172,693 B2 2/2007 Reid
 7,186,337 B2 3/2007 Reid
 7,186,338 B2 3/2007 Boisvert
 7,195,122 B2 3/2007 Hiranaga et al.
 D547,823 S 7/2007 Kennedy et al.
 D548,306 S 8/2007 Kennedy et al.
 7,264,718 B2 9/2007 Knoll et al.
 D554,734 S 11/2007 Yamamoto
 D555,225 S 11/2007 McCormack et al.
 7,296,582 B2 11/2007 Campbell et al.
 7,338,599 B2 3/2008 Hiranga et al.
 7,387,210 B2 6/2008 Burrows et al.
 7,476,315 B2 1/2009 Reid
 7,481,928 B2 1/2009 Fritze
 7,578,936 B2 8/2009 Gaignet et al.
 7,651,070 B2 1/2010 Ruprecht
 7,658,840 B2 2/2010 Lisenko
 7,662,283 B2 2/2010 Eserkalm et al.
 7,736,503 B2 6/2010 Kennedy et al.
 7,744,757 B1 6/2010 Liao
 7,763,170 B2 7/2010 Bassett et al.
 7,799,220 B2 9/2010 Fritze
 7,909,999 B2 3/2011 Noh et al.
 7,967,981 B2 6/2011 Talamali
 8,097,156 B2 1/2012 Tubby et al.
 8,137,551 B1 3/2012 Huda et al.
 8,182,699 B2 5/2012 Fritze
 8,398,852 B2 3/2013 Burrows
 D679,779 S 4/2013 Reid
 8,741,137 B2 6/2014 Ruprecht
 8,911,623 B2 12/2014 Tubby et al.
 9,044,699 B2 6/2015 Gale et al.
 2003/0019819 A1 1/2003 Fritze
 2005/0173323 A1 8/2005 Meuleners et al.
 2007/0227959 A1 10/2007 Sinur et al.
 2007/0295667 A1 12/2007 Ruprecht
 2008/0156711 A1 7/2008 Viton et al.
 2008/0185330 A1 8/2008 Sinur et al.
 2010/0000929 A1 1/2010 Gaignet et al.
 2012/0055866 A1 3/2012 Lin
 2012/0223002 A1 9/2012 Lin

FOREIGN PATENT DOCUMENTS

GB 1566502 4/1980
 JP 2000325712 11/2000
 WO WO2006094065 9/2006

* cited by examiner

