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(54) FILTER CARTRIDGE WITH HANDLE END

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Related U.S. Application Data

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	filed on May 31, 2013.		

	(51)	LOC (10) C		23-01
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(52) **U.S. Cl.**

(56)

(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

References Cited

U.S. PATENT DOCUMENTS

See application file for complete search history.

5,045,192	A *	9/1991	Terhune	B01D 29/15
				210/232
5,753,107	\mathbf{A}	5/1998	Magnusson et al.	
6,027,644	\mathbf{A}	2/2000	Magnusson et al.	
6,193,884	B1	2/2001	Magnusson et al.	

D455,814 S	4/2002	Magnusson et al.
6,632,355 B2	10/2003	Fritze
6,984,319 B2*	1/2006	Merritt B01D 29/15
		123/196 A
7,459,078 B2*	12/2008	Klein B01D 29/96
, ,		210/234
7,708,148 B2	5/2010	Fritze
8,066,790 B2 *	11/2011	Hutchinson B01D 29/111
, ,		210/457
8,097,158 B2*	1/2012	Tubby B01D 27/08
-,,		137/625.46
8,216,463 B1	7/2012	Baird
8,261,919 B2 *		Burr B01D 65/00
0,201,515 152	J, 2012	210/321.87
		210,521.07

^{*} cited by examiner

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(57) CLAIM

We claim the ornamental design for a "filter cartridge with handle end", as shown and described.

DESCRIPTION

FIG. 1 is a front view of a first filter cartridge with handle end according to the present invention;

FIG. 2 is a back view of the first filter cartridge with handle end according to the present invention;

FIG. 3 is a left-side view of the first filter cartridge with handle end according to the present invention;

FIG. 4 is a right-side view of the first filter cartridge with handle end according to the present invention;

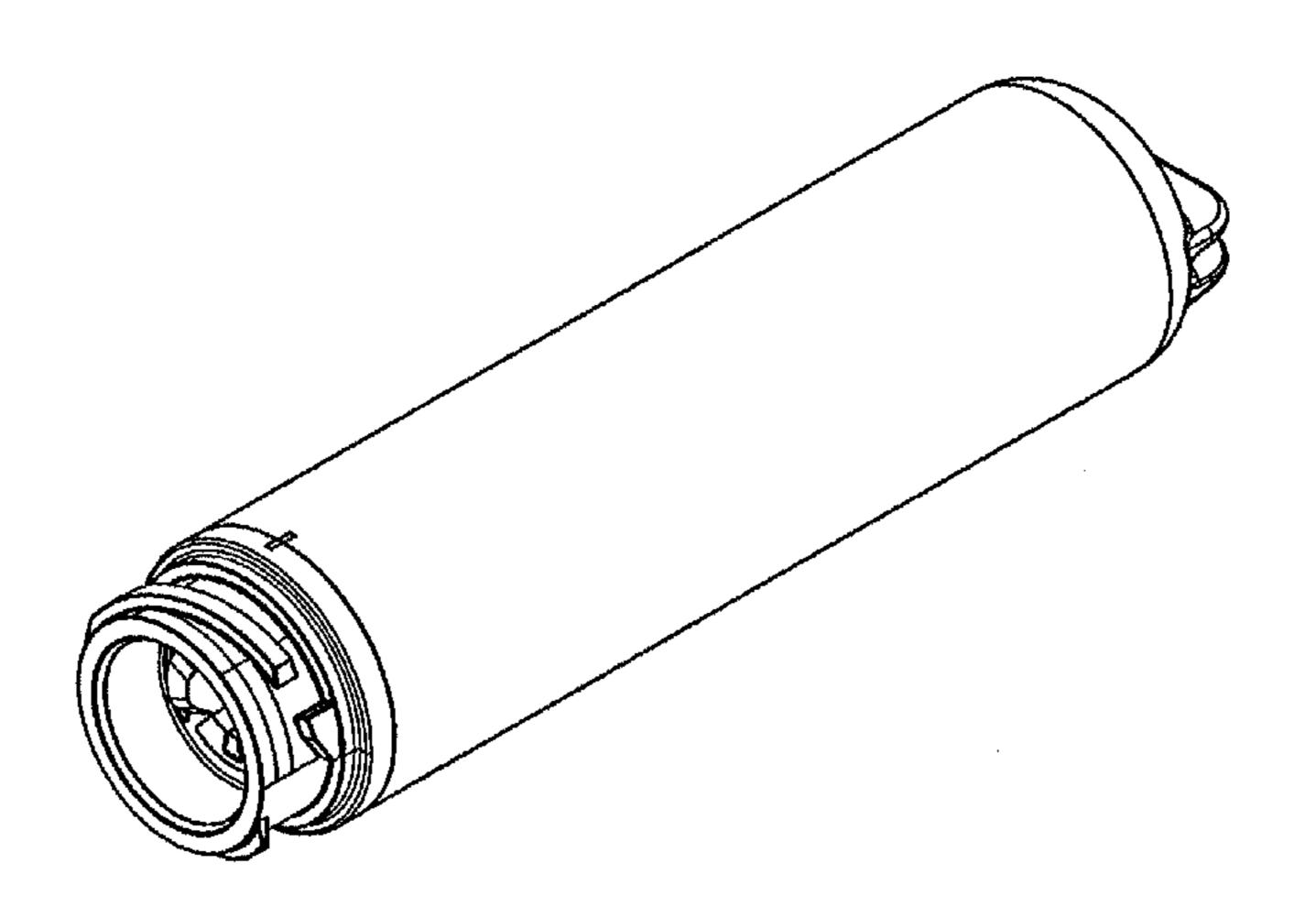
FIG. 5 is a top view of the second filter cartridge with handle end according to the present invention;

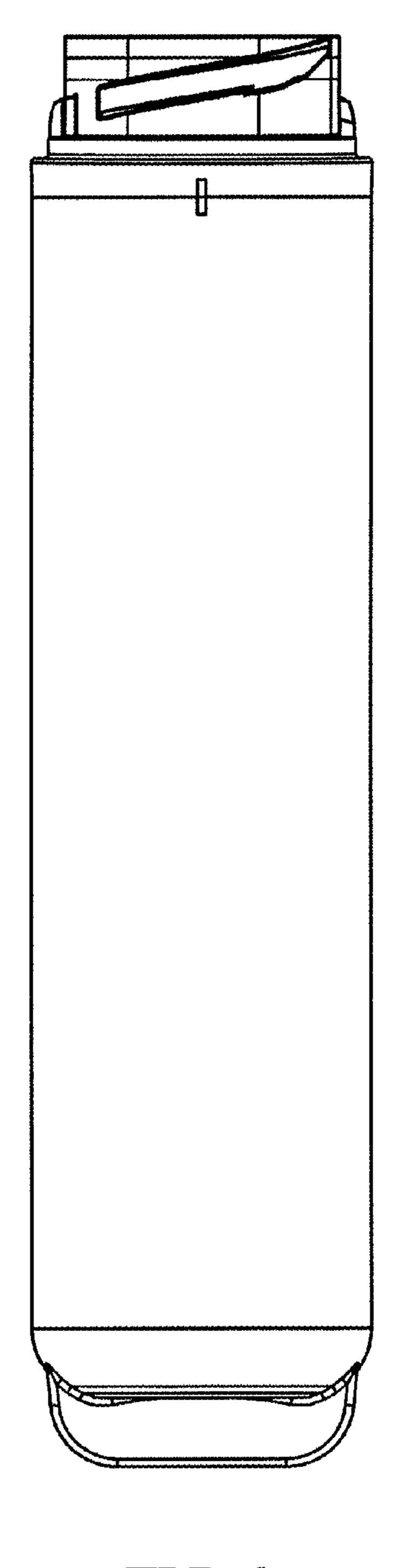
FIG. 6 is a bottom view of the second filter cartridge with handle end according to the present invention;

FIG. 7 is a downward perspective view of the second filter cartridge with handle end according to the present invention; and,

FIG. 8 is an upward perspective view of the second filter cartridge with handle end according to the present invention, rotated 90° with respect to the orientation of FIG. 7.

1 Claim, 3 Drawing Sheets





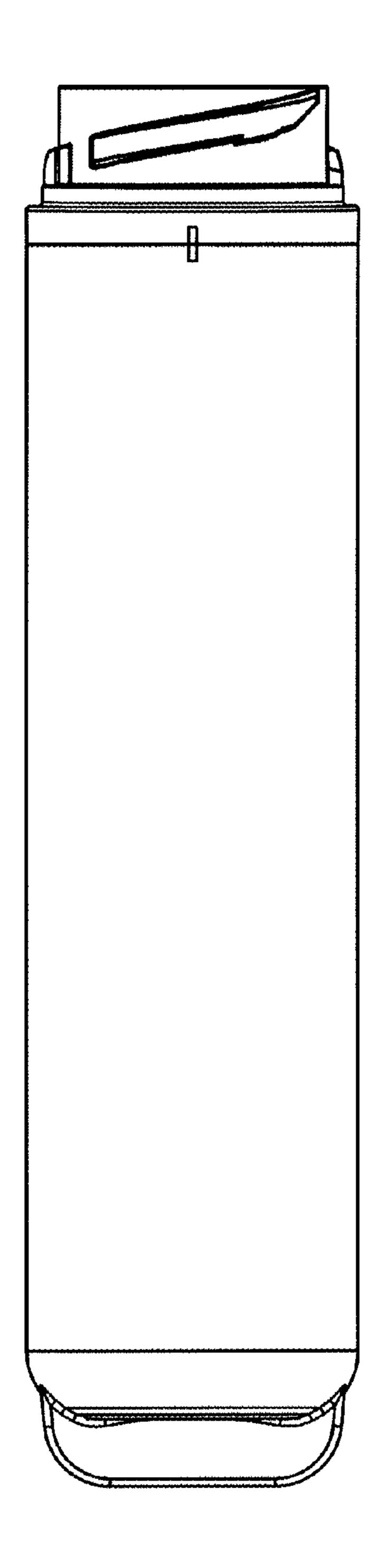


FIG. 1

FIG. 2

