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# United States Patent [19]

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Miller et al.

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[54] CYLINDRICAL FILTER ELEMENT

4,154,688 5/1979 Pall .

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4,402,830 9/1983 Pall .

4,882,056 11/1989 Degen et al. .

4,902,417 2/1990 Lien .

5,039,413 8/1991 Harwood et al. .

[73] Assignee: **Pall Corporation**, East Hills, N.Y.

5,252,207 10/1993 Miller et al. .

5,290,457 3/1994 Karbachsch et al. .

[\*\*] Term: **14 Years**

5,543,047 8/1996 Stoyell et al. .

[21] Appl. No.: **29/096,615**

### FOREIGN PATENT DOCUMENTS

[22] Filed: **Nov. 18, 1998**

855068 12/1955 United Kingdom .

1005987 9/1963 United Kingdom .

1337170 12/1971 United Kingdom .

### Related U.S. Application Data

### OTHER PUBLICATIONS

[62] Division of application No. 29/060,233, Sep. 25, 1996.

“Ultipor Composite Filter Structure”, Pall Corporation, 1992.

[51] **LOC (6) Cl.** ..... **23-01**

[52] **U.S. Cl.** ..... **D23/209**

[58] **Field of Search** ..... D23/200, 207, D23/209, 365; 210/263-264, 460, 497.01, 497.1

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### [56] References Cited

### [57] CLAIM

#### U.S. PATENT DOCUMENTS

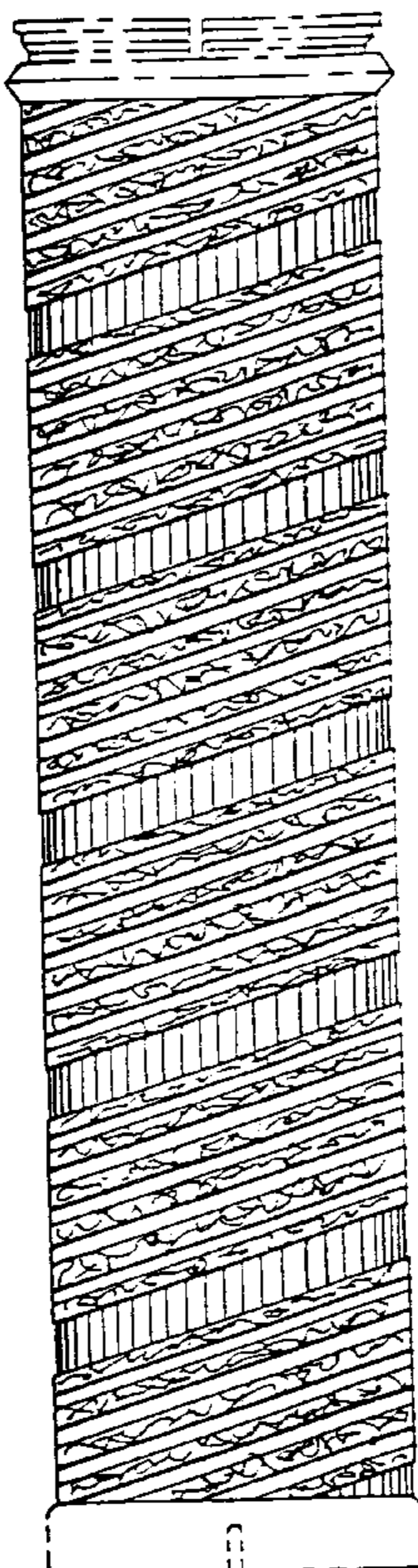
The ornamental design for a cylindrical filter element, as shown and described.

- D. 349,567 8/1994 Miller et al. .
- D. 403,741 1/1999 Rao et al. .... D23/209
- 629,377 7/1899 Leland .
- 2,426,405 8/1947 McDermott .
- 2,539,450 1/1951 Magill .
- 3,241,680 3/1966 Humbert, Jr. .
- 3,442,392 5/1969 Skelley .
- 3,566,607 3/1971 Sixt .

### DESCRIPTION

FIG. 1 is a front view of a cylindrical filter element showing our design with all other side views being identical; and, FIG. 2 is a cross sectional view taken in the direction of line 2—2 of FIG. 1.

**1 Claim, 1 Drawing Sheet**



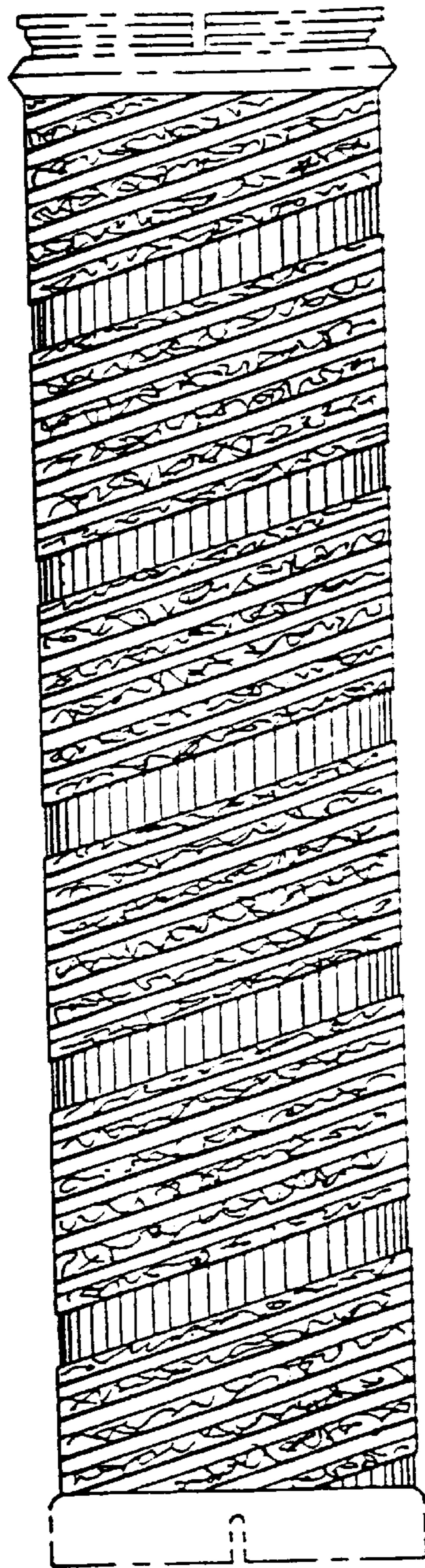


FIG. 1



FIG. 2