

US00D403414S

United States Patent [19]

Shelton et al.

[11] Patent Number: **Des. 403,414**

[45] Date of Patent: ****Dec. 29, 1998**

[54] **CYLINDRICAL PLEATED AIR FILTER WITH TOP AND SIDEWALL FILTERING AREAS**

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[73] Assignee: **K & N Engineering, Inc.**, Riverside, Calif.

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

[21] Appl. No.: **79,234**

[22] Filed: **Nov. 10, 1997**

[51] **LOC (6) Cl.** **23-04**

[52] **U.S. Cl.** **D23/365**

[58] **Field of Search** D23/365, 355;
55/498, 510, 521; 210/493.1, 493.2, 493.5

[56] References Cited

U.S. PATENT DOCUMENTS

1,892,210 12/1932 Gordon 210/493.1

2,663,660 12/1953 Layte 55/498
4,056,876 11/1977 Lammermann 55/510
4,938,869 7/1990 Bayerlein et al. 210/493.1

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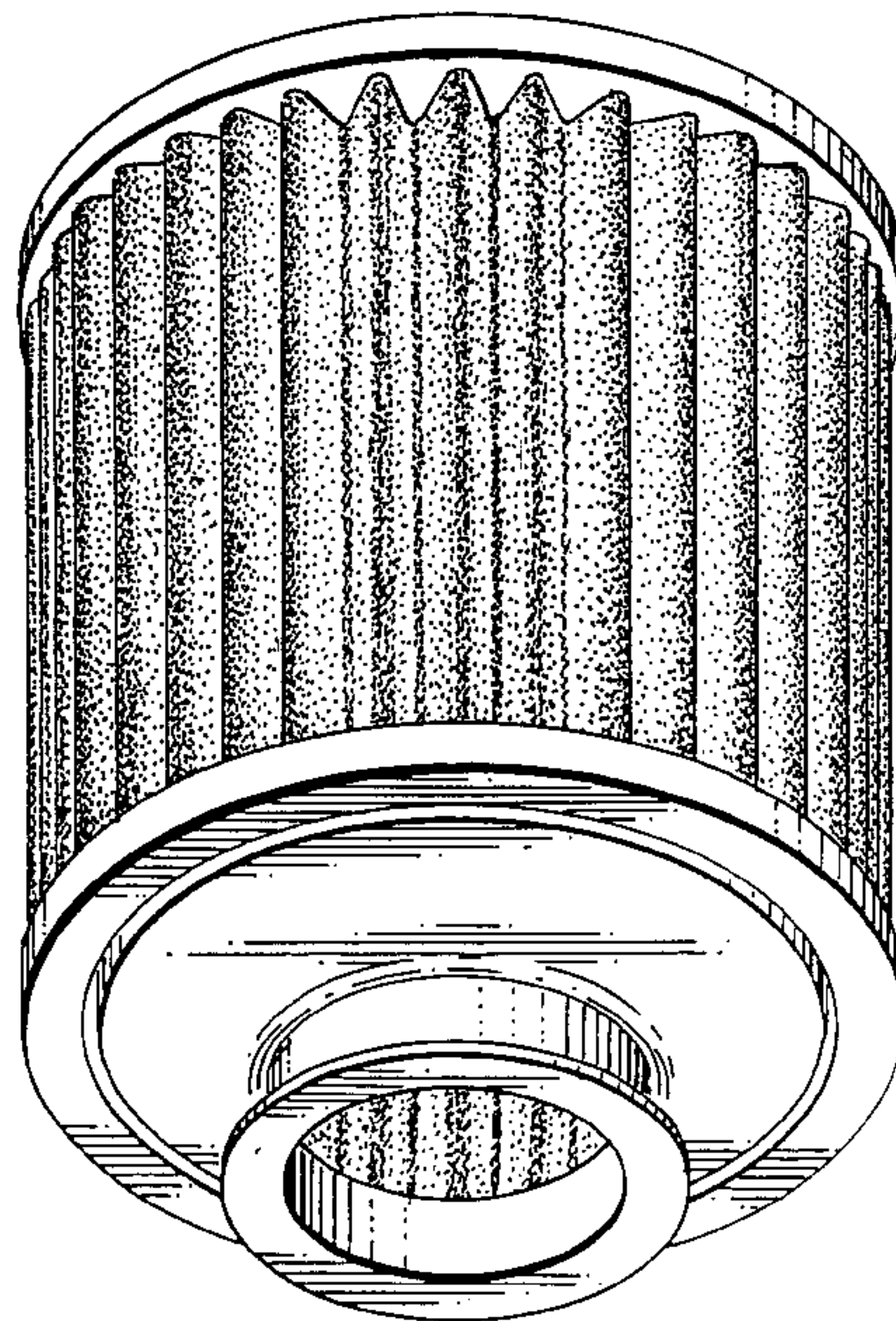
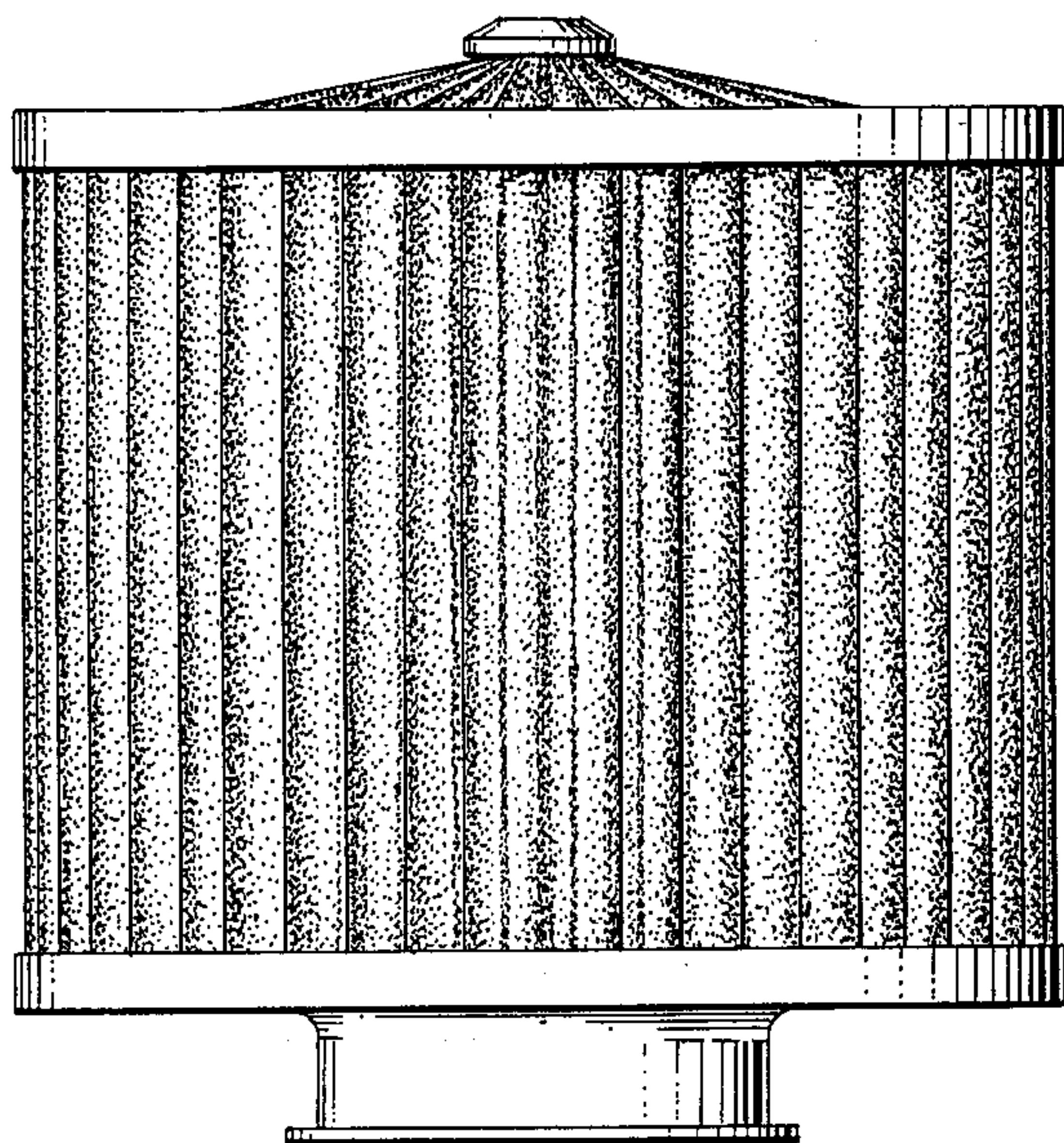
[57] CLAIM

The ornamental design for a cylindrical pleated air filter with top and sidewall filtering areas, as shown and described.

DESCRIPTION

FIG. 1 is a side elevational view of an air filter showing our new design, the other sides being identical to that shown; FIG. 2 is a bottom plan view; FIG. 3 is a top plan view; FIG. 4 is a perspective view; FIG. 5 is an enlarged fragmentary sectional view taken along line 5—5 of FIG. 3; and, FIG. 6 is an enlarged fragmentary perspective view showing details of the pleats.

1 Claim, 2 Drawing Sheets



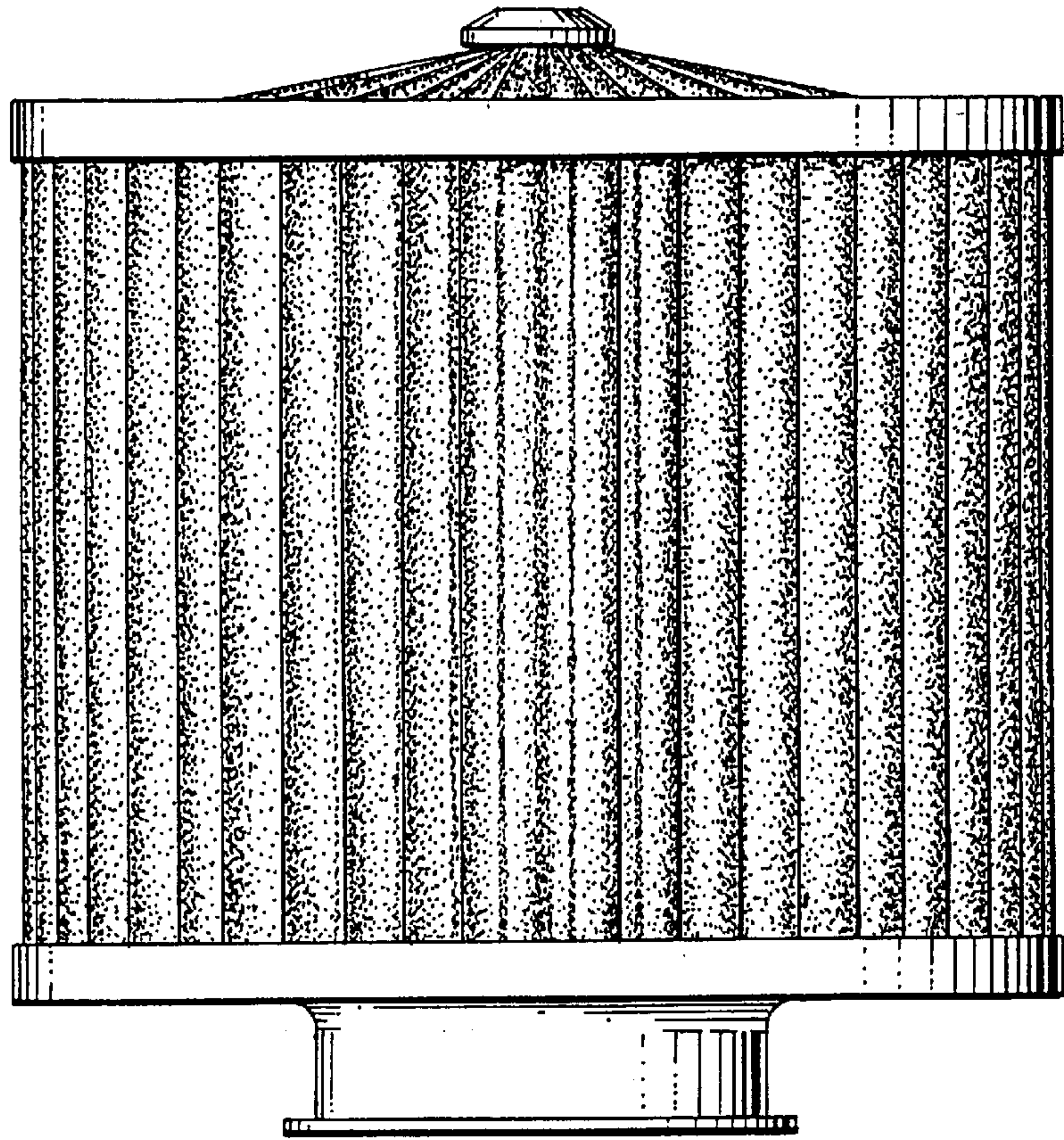
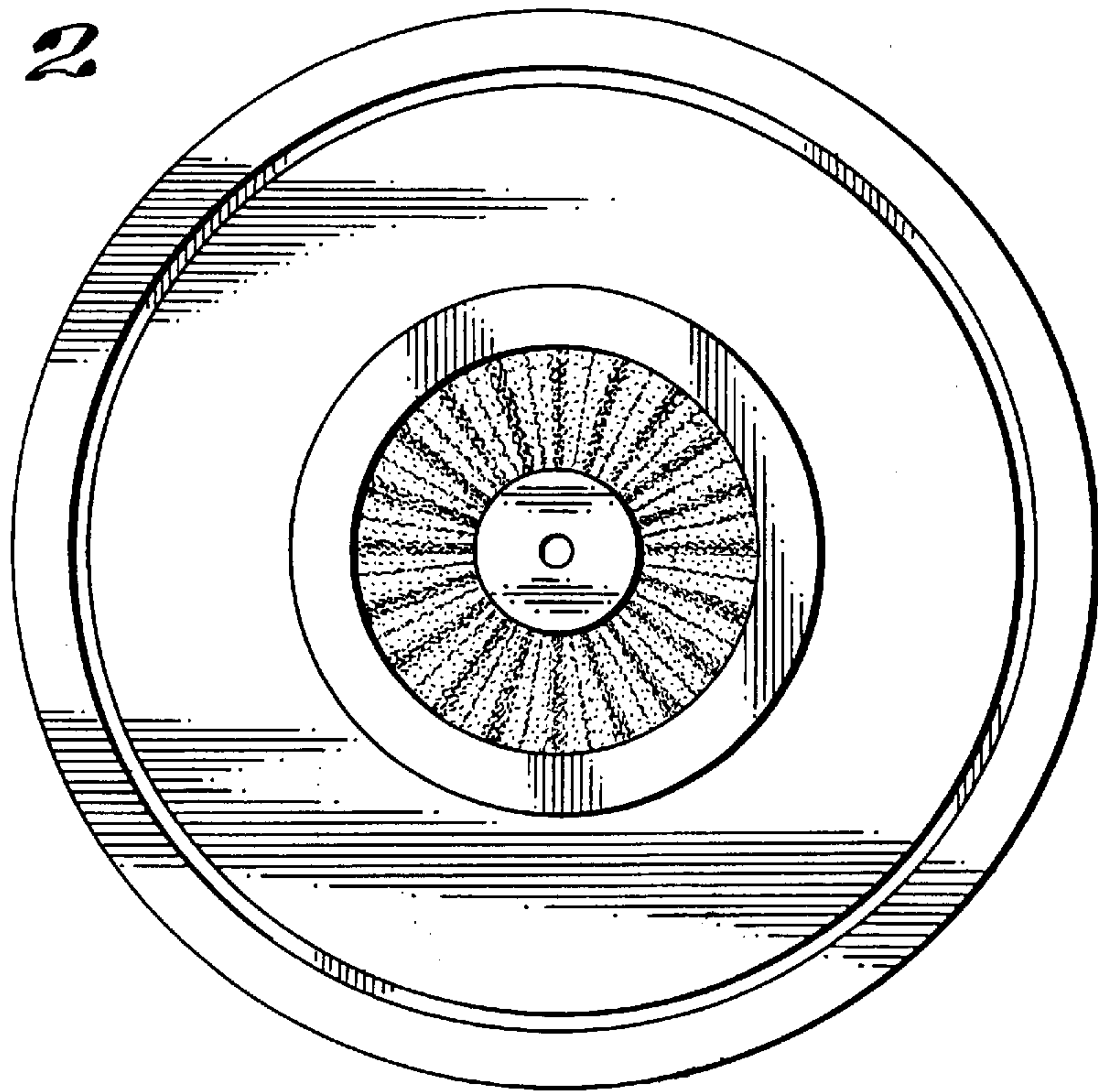


FIG. 1

FIG. 2



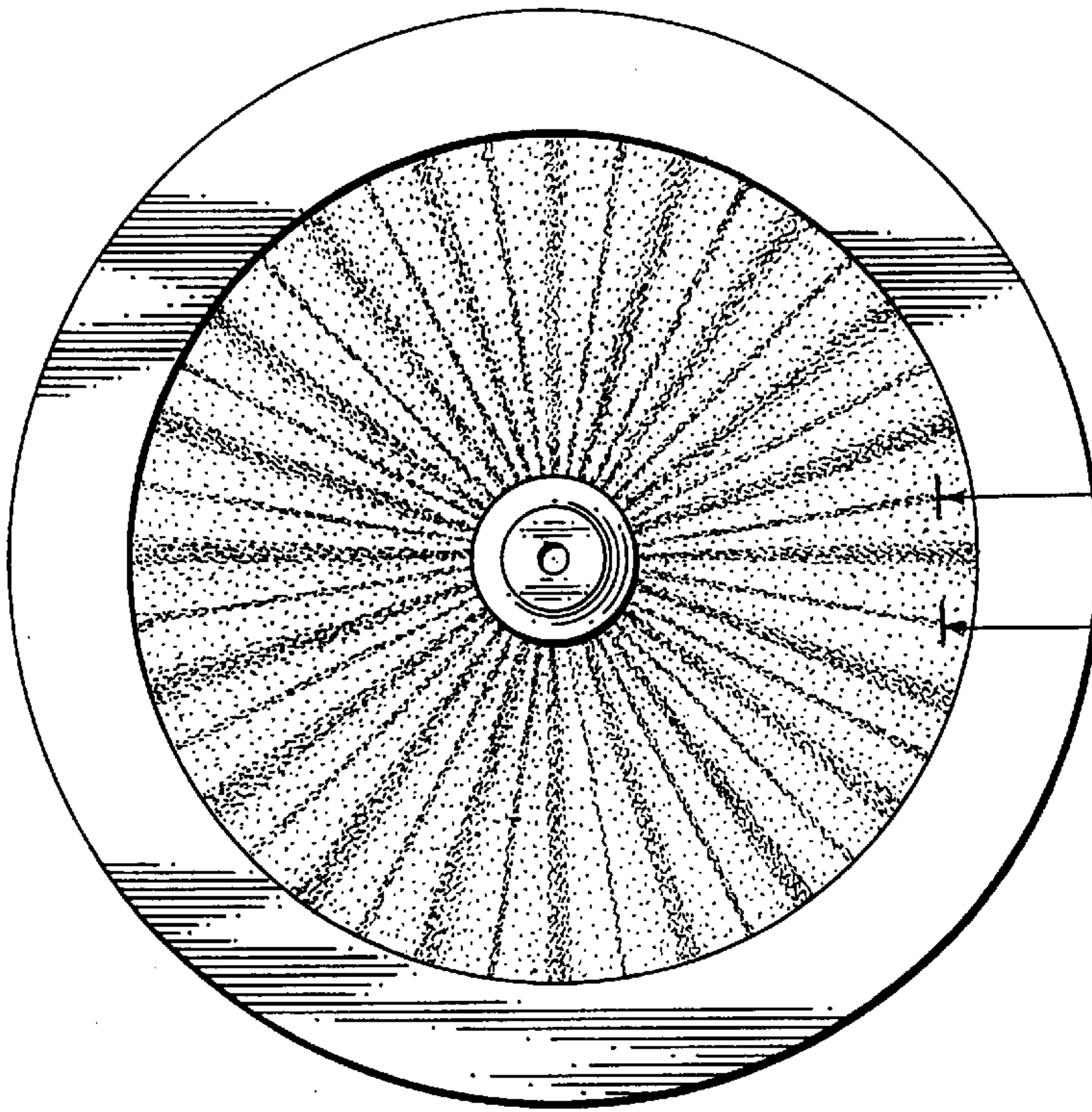


FIG. 3

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FIG. 5

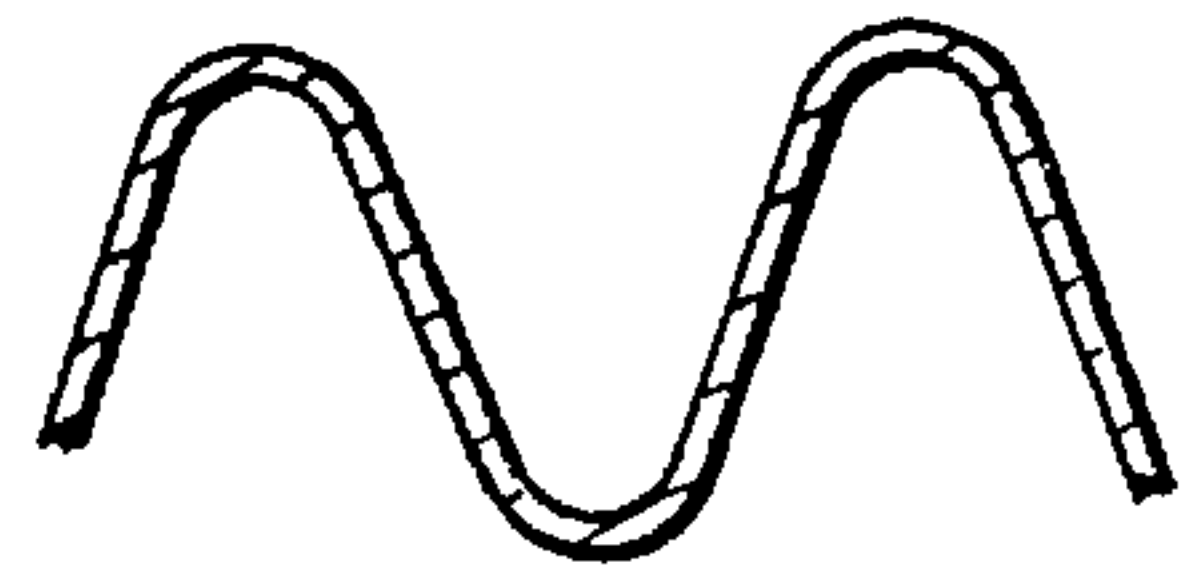


FIG. 4

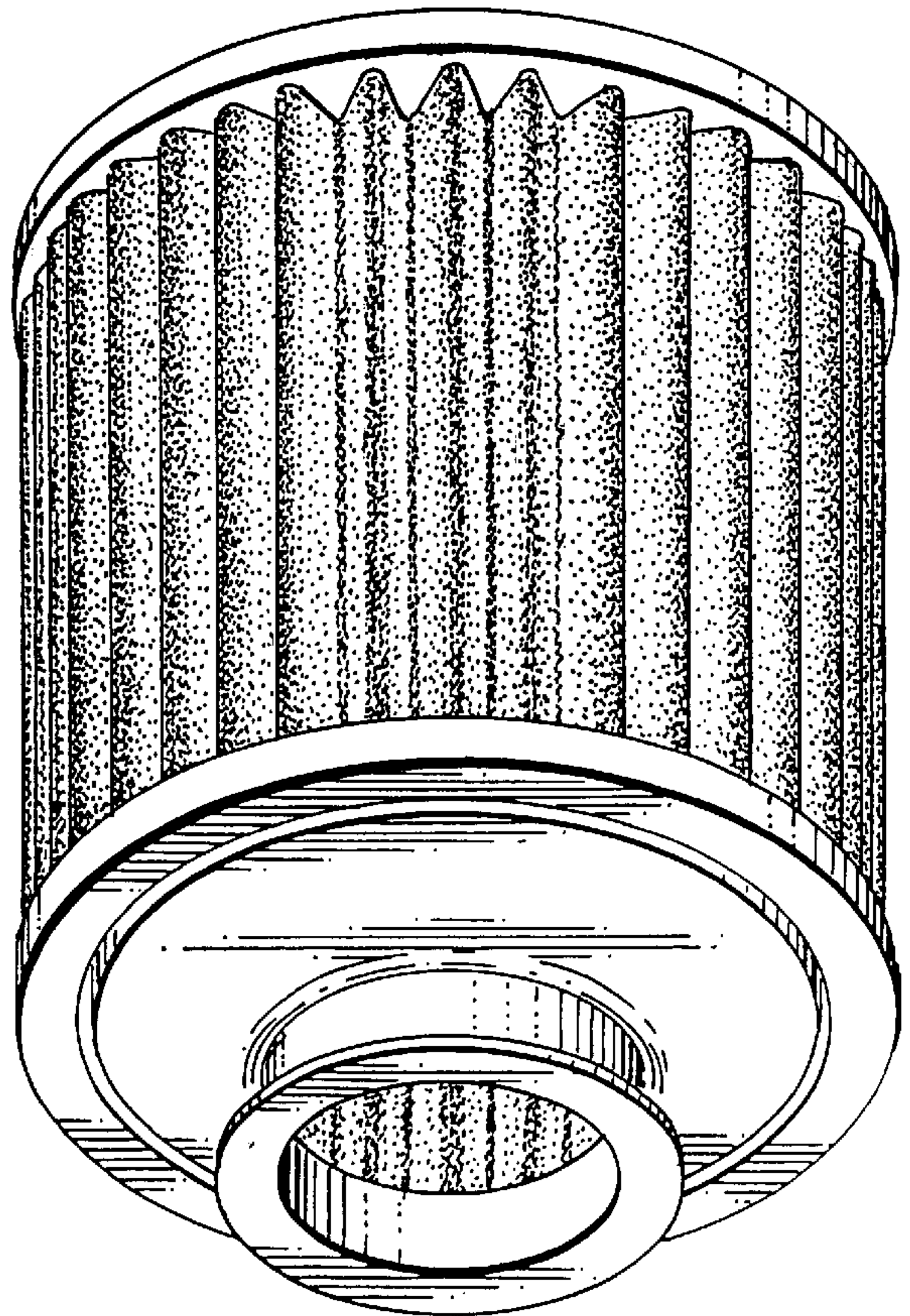


FIG. 6

