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United States Patent [19]

Hanagata et al.

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[54] PROCESSING TUBE FOR USE IN A SEMICONDUCTOR WAFER HEAT PROCESSING APPARATUS

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[73] Assignee: Tokyo Electron Limited, Tokyo-To, Japan

[**] Term: 14 Years

[21] Appl. No.: 74,293

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[30] Foreign Application Priority Data

Jan. 31, 1997 [JP] Japan 9-2644

[51] LOC (6) Cl. 13-03

[52] U.S. Cl. D13/182

[58] Field of Search D13/182; D15/144, D15/144.1, 199; 414/935-941, 217, 147; 437/247, 946

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Primary Examiner—Brian N. Vinson
Attorney, Agent, or Firm—Ladas & Parry

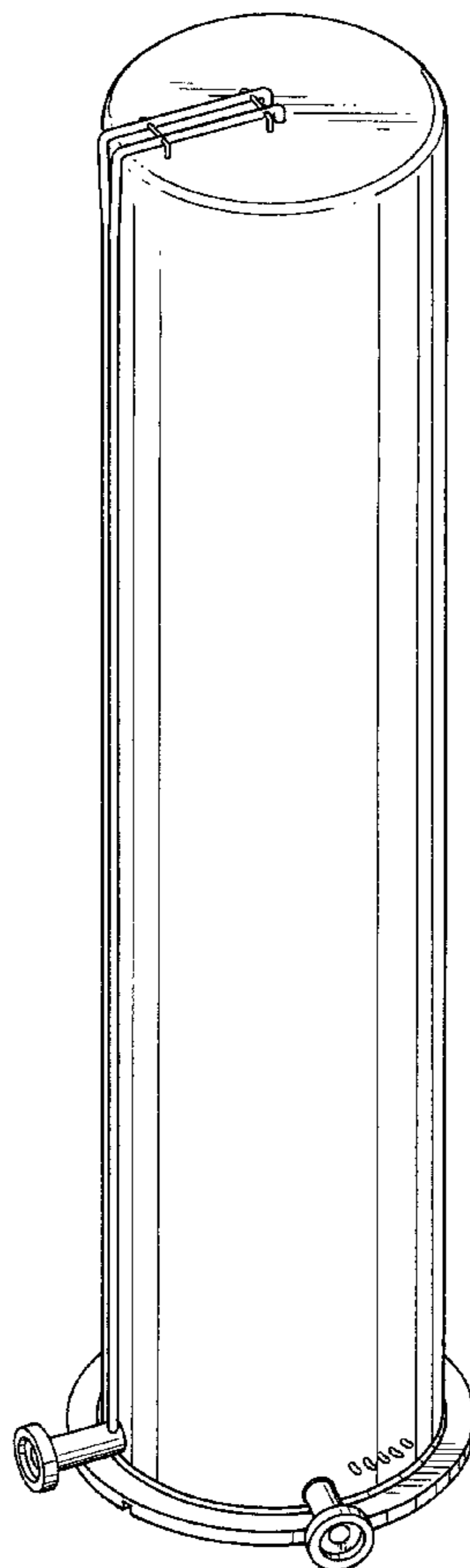
[57] CLAIM

I claim the ornamental design for processing tube for use in a semiconductor wafer heat processing apparatus, as shown and described.

DESCRIPTION

FIG. 1 a perspective view of a processing tube for use in a semiconductor wafer heat processing apparatus;
 FIG. 2 a front elevational view thereof;
 FIG. 3 a top plan view thereof;
 FIG. 4 a bottom plan view thereof;
 FIG. 5 a cross sectional view thereof taken along line V—V in FIG. 2;
 FIG. 6 a rear elevational view thereof;
 FIG. 7 a left side view thereof;
 FIG. 8 a right side view thereof;
 FIG. 9 a cross sectional view thereof taken along line IX—IX in FIG. 3; and,
 FIG. 10 a cross sectional view thereof taken along line X—X in FIG. 3.

1 Claim, 5 Drawing Sheets



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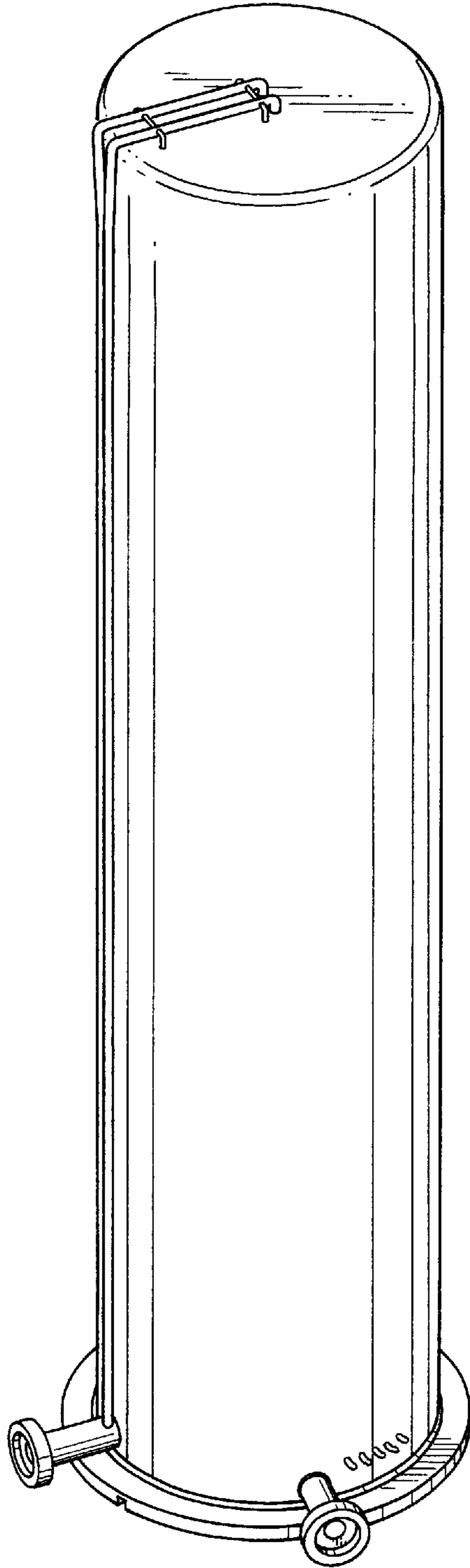


FIG. 2

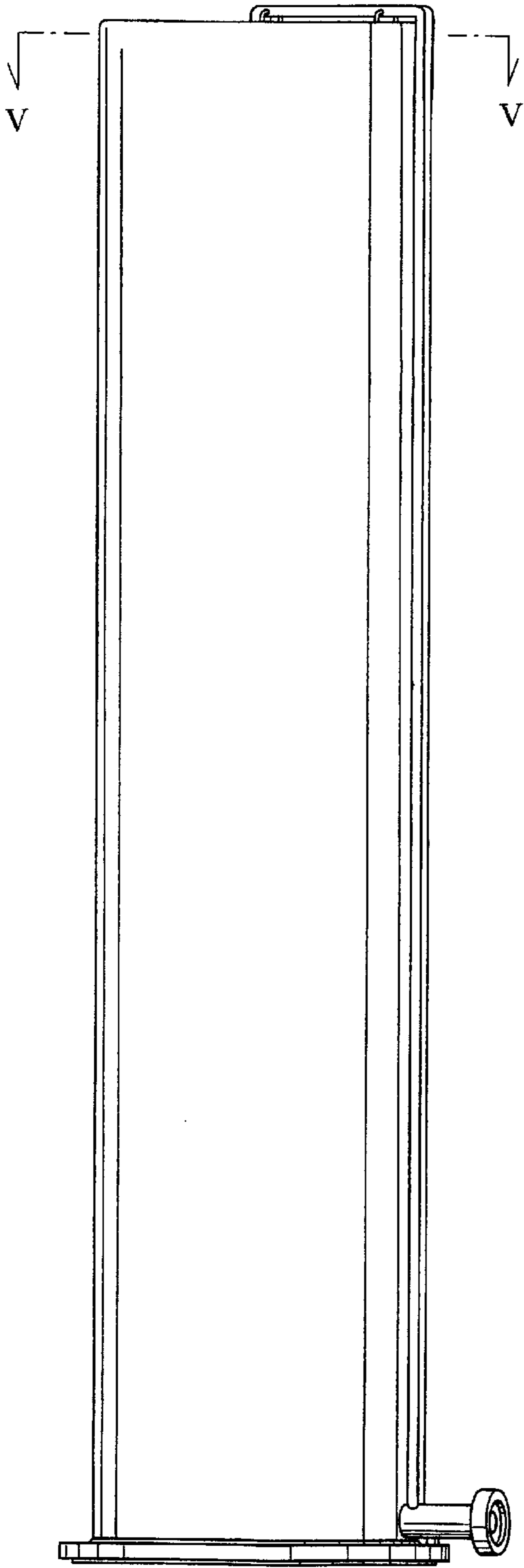


FIG. 3

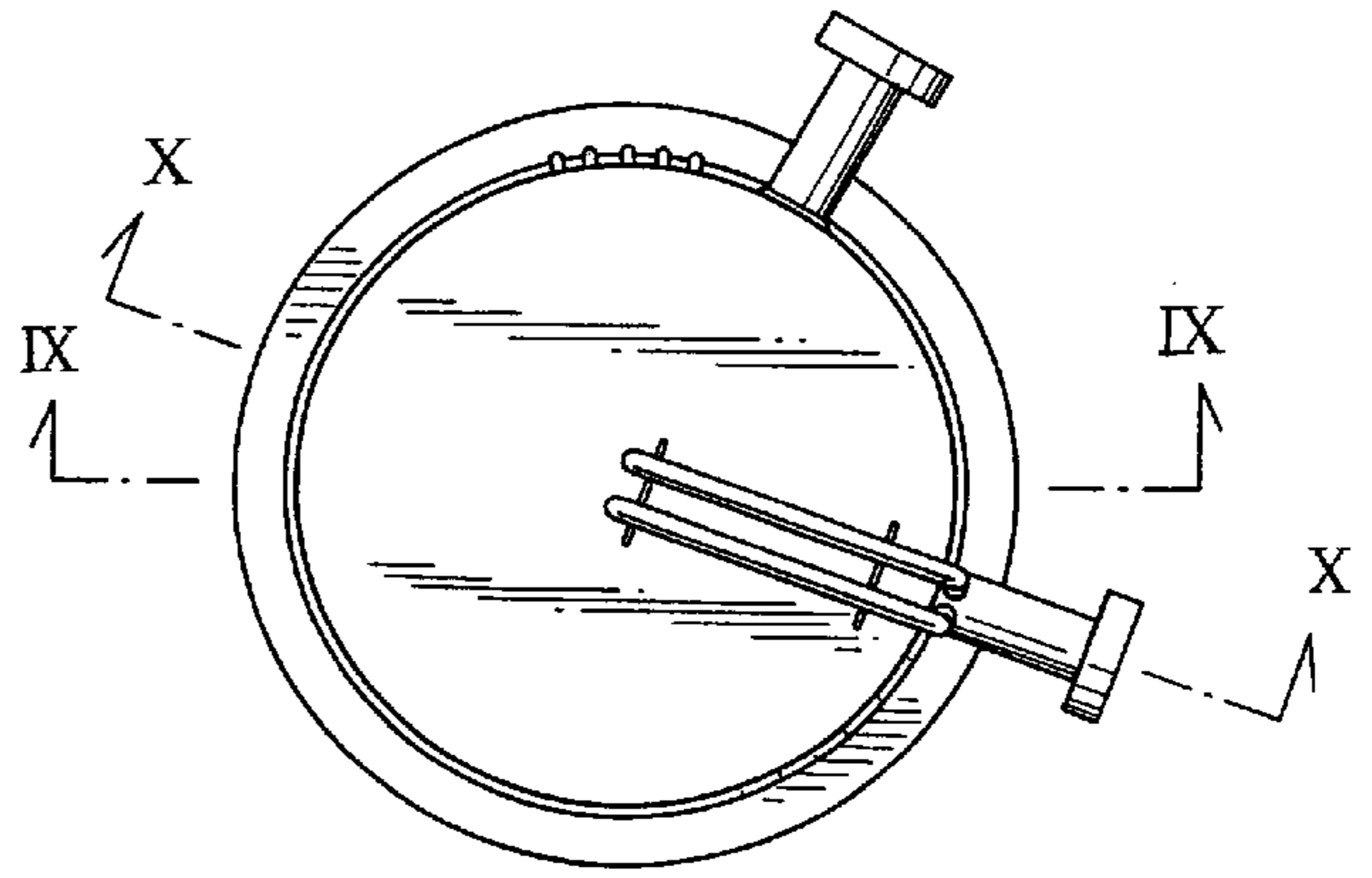


FIG. 4

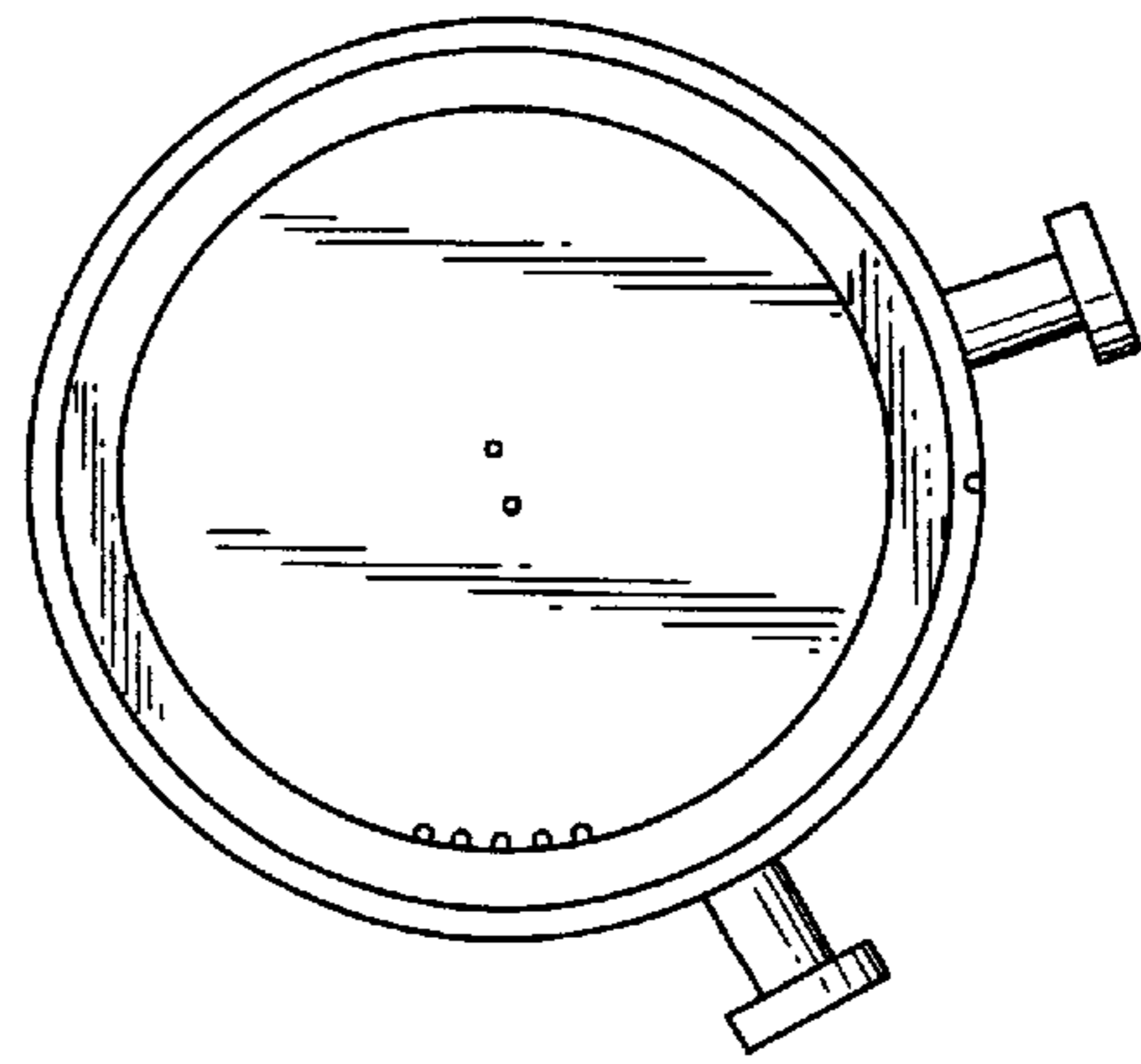


FIG. 5

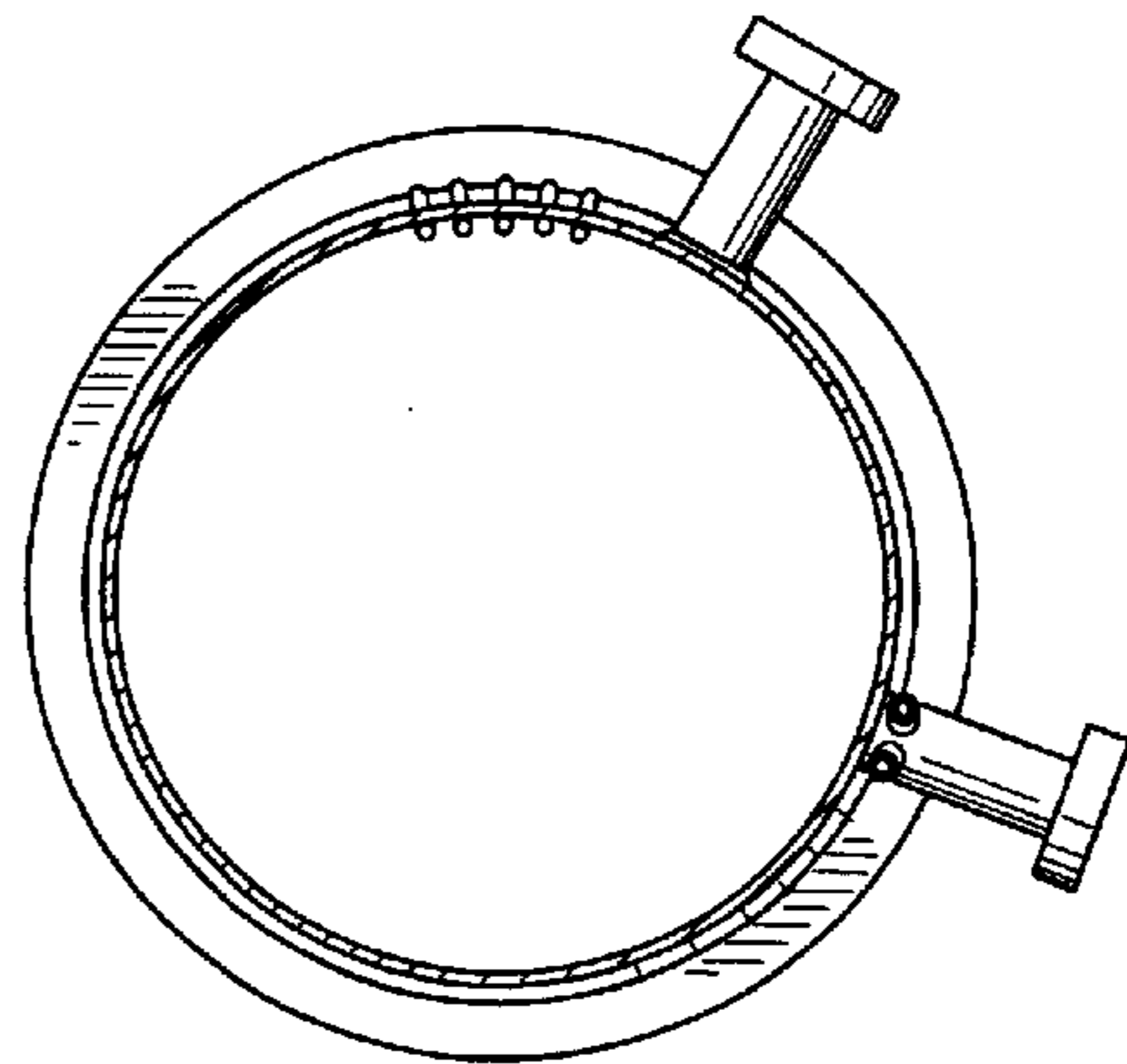


FIG. 6

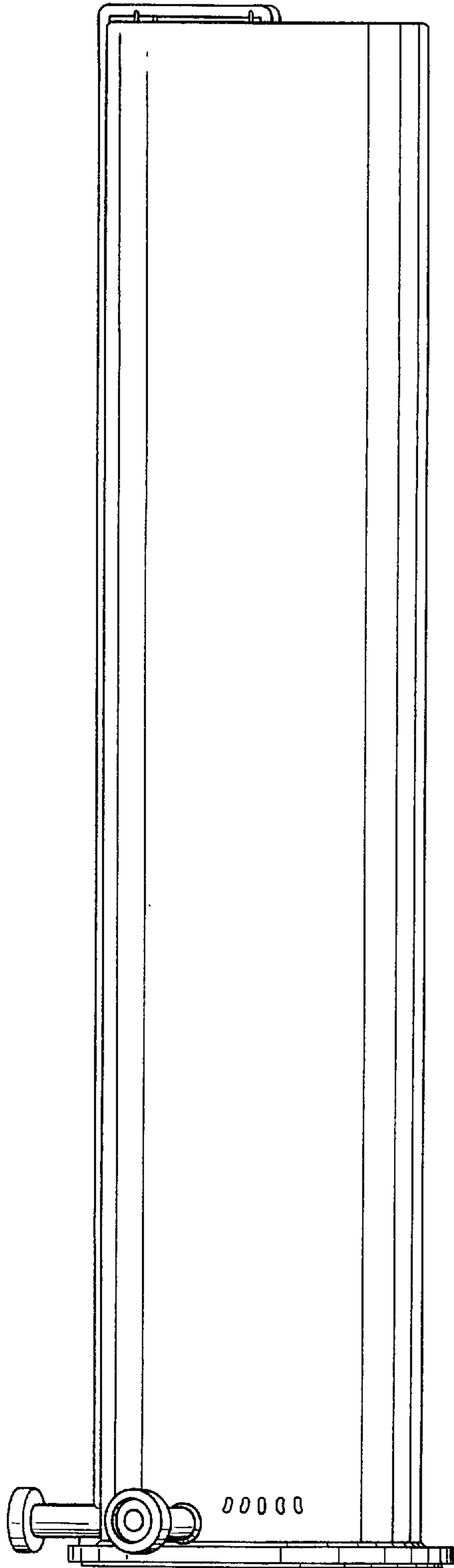


FIG. 7

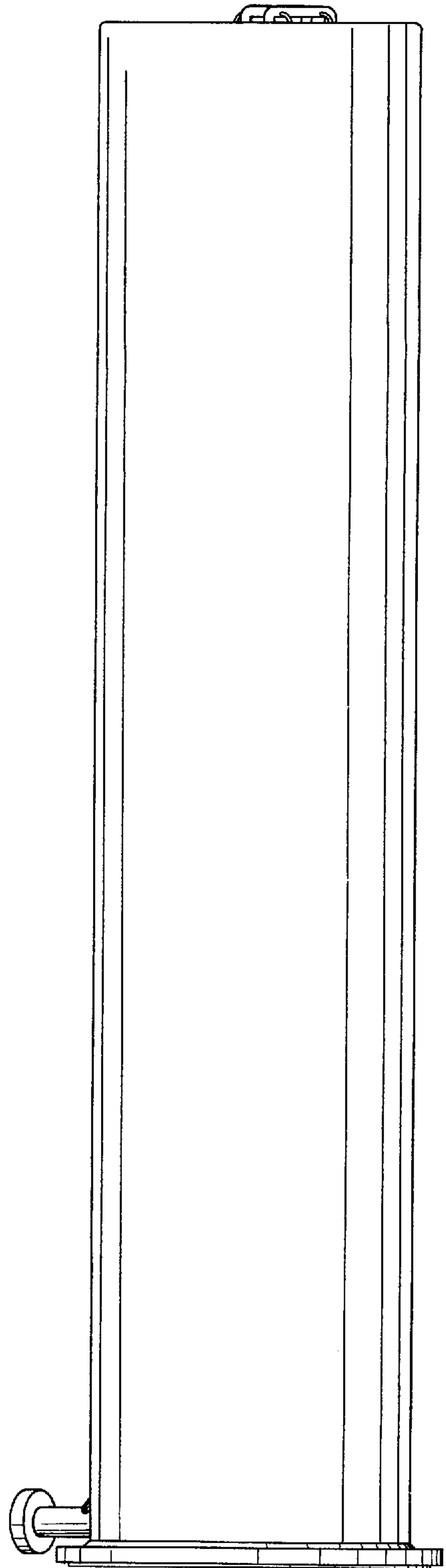
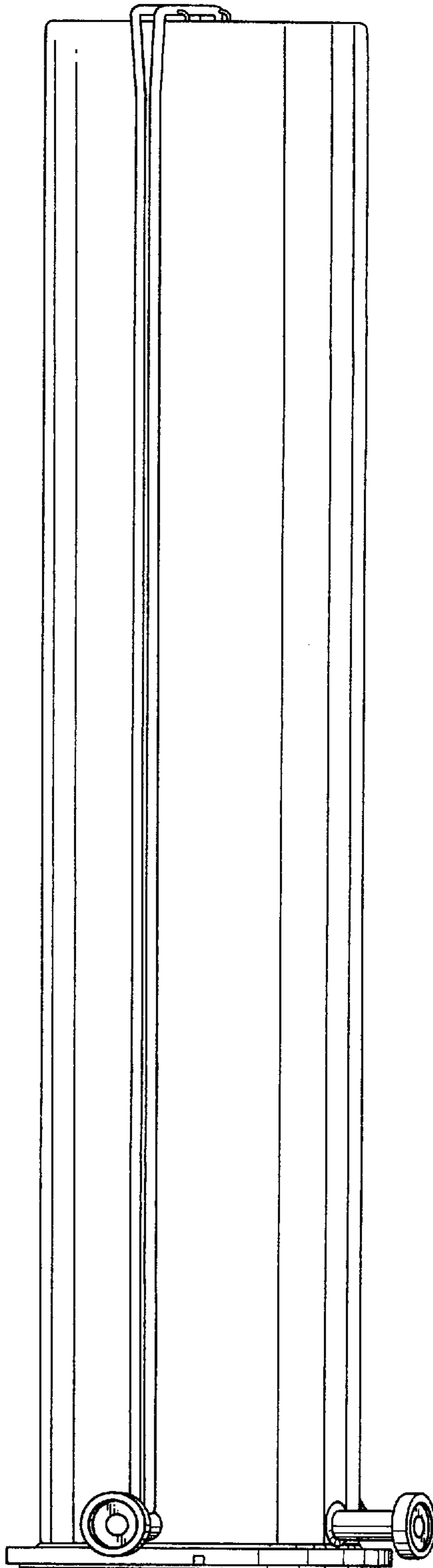
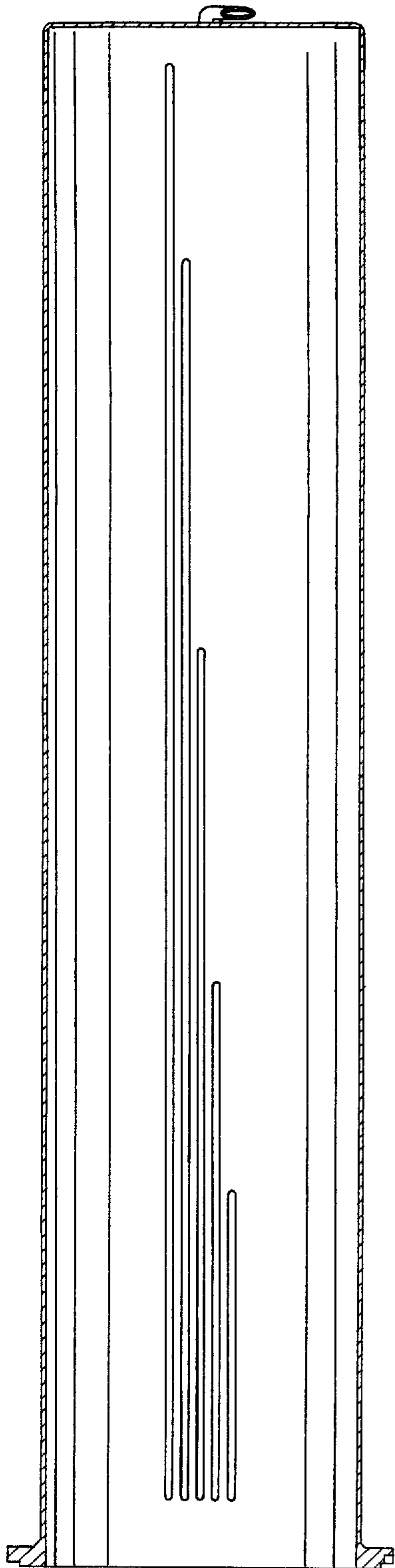


FIG. 8



F I G . 9



F I G . 10

