



US00D818959S

(12) **United States Design Patent** (10) **Patent No.:** **US D818,959 S**
Stockman (45) **Date of Patent:** **** *May 29, 2018**

(54) **CAPACITOR**

- (71) Applicant: **American Radionic Company, Inc.**,
Palm Coast, FL (US)
- (72) Inventor: **Robert M. Stockman**, Palm Coast, FL
(US)
- (73) Assignee: **American Radionic Company, Inc.**,
Palm Coast, FL (US)
- (*) Notice: This patent is subject to a terminal disclaimer.
- (**) Term: **15 Years**
- (21) Appl. No.: **29/589,876**
- (22) Filed: **Jan. 5, 2017**

Related U.S. Application Data

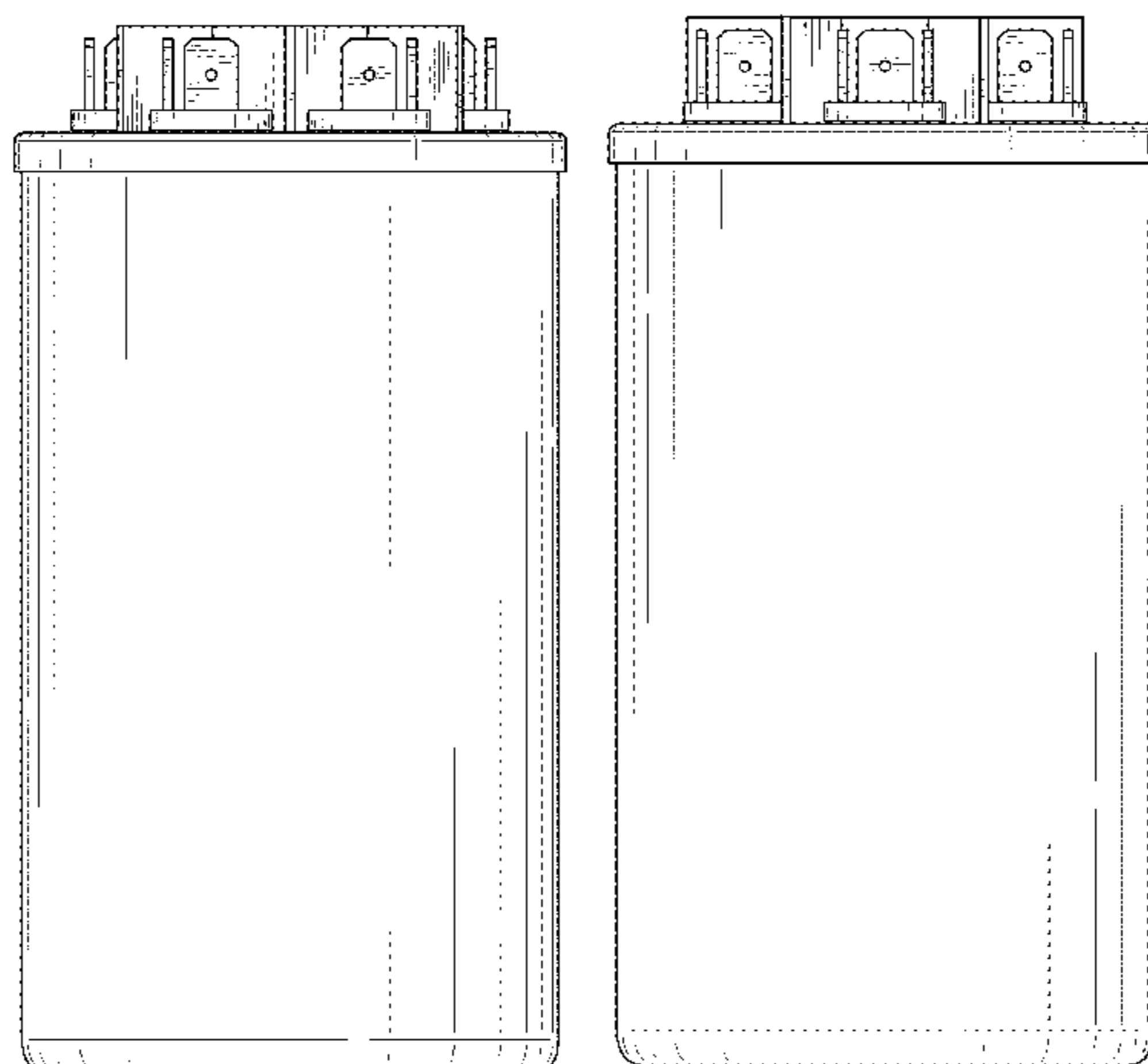
- (63) Continuation of application No. 15/097,383, filed on Apr. 13, 2016, which is a continuation of application No. 13/601,205, filed on Aug. 31, 2012, now Pat. No. 9,343,238, which is a continuation of application No. 12/945,979, filed on Nov. 15, 2010, now Pat. No. 8,270,143, which is a continuation of application No. 12/246,676, filed on Oct. 7, 2008, now Pat. No. 7,835,133, which is a continuation of application No. 11/733,624, filed on Apr. 10, 2007, now Pat. No. 7,474,519, which is a continuation of application No. 11/317,700, filed on Dec. 23, 2005, now Pat. No. 7,203,053.
- (51) **LOC (11) Cl.** **13-03**
- (52) **U.S. Cl.**
USPC **D13/124**
- (58) **Field of Classification Search**
USPC D13/123-132, 154, 184, 199
CPC H01G 4/224; H01G 4/232; H01G 4/28;
H01G 4/385; H01G 4/40
See application file for complete search history.

(56)

References Cited

U.S. PATENT DOCUMENTS

1,665,499	A	4/1928	Hoch	
1,707,959	A	4/1929	Fried	
1,943,714	A	1/1934	Bailey	
2,202,166	A	11/1937	Peck	
D122,825	S *	10/1940	Peck	D13/125
D124,726	S *	1/1941	Shimer	D13/110
2,569,925	A	12/1948	Deeley	
2,896,008	A	12/1953	Putz	
3,015,687	A	11/1959	Ruscito	
3,302,081	A	1/1967	Grahame	
3,304,473	A	2/1967	Netherwood et al.	
D210,210	S *	2/1968	Braiman et al.	D13/125
3,377,510	A	4/1968	Rayno	
3,921,041	A	11/1975	Stockman	
3,988,650	A	10/1976	Fritze	
4,028,595	A	6/1977	Stockman	
4,095,902	A	6/1978	Florer et al.	
4,106,068	A	8/1978	Flanagan	
4,107,758	A	8/1978	Shirn et al.	
4,112,424	A	9/1978	Lapeyre	
4,209,815	A	6/1980	Rollins et al.	
4,240,126	A	12/1980	Sanvito	
4,263,638	A	4/1981	Stockman et al.	
4,312,027	A	1/1982	Stockman	
4,326,237	A	4/1982	Markarian et al.	
4,352,145	A	9/1982	Stockman	
4,363,078	A	12/1982	Dwyer	
4,398,782	A	8/1983	Markarian	
4,408,818	A	10/1983	Markarian	
4,447,854	A	5/1984	Markarian	
4,486,809	A	12/1984	Deak et al.	
4,558,394	A	12/1985	Stockman	
4,586,107	A	4/1986	Price	
4,631,631	A	12/1986	Hodges et al.	
4,633,365	A	12/1986	Stockman	
4,633,367	A	12/1986	Strange et al.	
4,633,369	A	12/1986	Lapp et al.	
4,639,828	A	1/1987	Strange et al.	
4,698,725	A	10/1987	MacDougall et al.	
4,754,361	A	6/1988	Venturini	
4,812,941	A	3/1989	Rice et al.	
4,897,760	A	1/1990	Bourbeau	
5,006,726	A	4/1991	Okumura	
5,019,934	A	5/1991	Bentley et al.	
5,138,519	A	8/1992	Stockman	
5,148,347	A	9/1992	Cox et al.	
5,313,360	A	5/1994	Stockman	
5,381,301	A	1/1995	Hudis	
5,673,168	A	9/1997	Efford et al.	



“American Radionic Co., Inc. Introduces . . . The World’s First Multiple Metallized Film Dielectric Capacitor Produced from a Single Winding! The Patented Ultramet™ Capacitor,” poster by American Radionic Co., Inc. (undated) (one page).

“American Radionic Company’s Chronology of Patents, New Products and Technology Transfer Programs—From the Present, to the Past, a Thirty-Five Year Review,” online website having URL: <http://www.americanradionic.com/content/blogcategory/13/29/8/16>, accessed May 19, 2014 (undated) (3 pages).

“American Radionic Introduces Capacitors Without Compromise”, color brochure, 1989, (1 page).

“AmRad Engineering: Universal Capacitor,” *The Air Conditioning|Heating|Refrigeration News*, Jan. 29, 2005, Printout of website having URL: “<http://www.archrnews.com/articles/print/amrad-engineering-universal-capacitor>” (accessed Jun. 2, 2014) (1 page).

“Capacitors—Motor Run, Oil Filled Capacitors, AC Rated. AmRad.” Online archive of website captured at <http://web.archive.org/web/20041214091042/http://americanradionic.com>, Dec. 14, 2004, (13 pages) (accessed May 29, 2014).

“Capacitors—Motor Run, Oil Filled Capacitors, AC Rated. AmRad.” Online archive of website captured at <http://web.archive.org/web/20011126195819/http://www.americanradionic.com>, Nov. 26, 2001, (13 pages) (accessed May 29, 2014).

“Capacitors—Motor Run, Oil Filled Capacitors, AC Rated. AmRad.” Printout of website having URL: <http://amradcapacitors.com/index.htm>, Jan. 3, 2003(20 pages).

“Industrial Power Factor Correction Capacitors,” Cornell Dubilier, Undated (1 page).

“Product of the Year Awards,” *Electronic Products Magazine*, Jan. 1981, pp. 39-45.

“Super-Sized Show,” *ASHRAE Journal Show Daily*, 2005 International Air-Conditioning, Heating, Refrigerating Exposition, Tuesday, Feb. 8, 2005 (24 pages).

“The Patented Ultramet™ Capacitor,” poster by American Radionic Co., Inc., (undated) (three pages).

“The Patented Ultramet™ Capacitor. A product of years of American Radionic research & development,” poster by American Radionic Co., Inc. (undated) (one page).

Answer and affirmative defenses to Complaint by Cornell-Dubilier Electronics, Inc. (Allaman, Melissa) (Entered: Jan. 9, 2015).

Answer and affirmative defenses to Complaint by Packard Inc. (Allaman, Melissa) (Entered: Jan. 9, 2015).

Case Management and Scheduling Order: Amended Pleadings and Joinder of Parties due by Apr. 9, 2015. Discovery due by Feb. 16, 2016. Dispositive motions due by Apr. 7, 2016. Pretrial statement due by Aug. 11, 2016. All other motions due by Jul. 28, 2016. Plaintiff disclosure of expert report due by Dec. 10, 2015. Defendant disclosure of expert report due by Jan. 14, 2016. Final Pretrial Conference set for Aug. 18, 2016 at 01:15 PM in Orlando Courtroom 4 A before Judge Roy B. Dalton, Jr., Jury Trial Set for the trial team commencing Sep. 6, 2016 at 09:00 AM in Orlando Courtroom 4 A before Judge Roy B. Dalton Jr., Conduct mediation hearing by Mar. 29, 2016. Lead counsel to coordinate dates. Signed by Judge Roy B. Dalton, Jr. on Feb. 10, 2015. (VMF). (Entered: Feb. 10, 2015).

Complaint for Patent Infringement against Cornell-Dubilier Electronics, Inc., Packard Inc. with Jury Demand (Filing fee \$400 receipt No. ORL-38930) filed by American Radionic Company, Inc. (Attachments: #1 Civil Cover sheet, #2 Exhibit A)(LMM) Modified on Nov. 19, 2014 (LMM). (Entered: Nov. 19, 2014).

Declaration of Noah C. Graubart in Support of Plaintiff’s Claim Construction Brief by American Radionic Company, Inc. (Attachments: #1 Exhibit 1, #2 Exhibit 2, #3 Exhibit 3, #4 Exhibit 4, #5 Exhibit 5, #6 Exhibit 6) (Graubart, Noah) (Entered: Jun. 18, 2015). Defendants’ First Supplemental Disclosure of Non-Infringement and Invalidity Contentions *American Radionic, Inc., v. Packard, Inc., and Cornell-Dubilier Electronics, Inc.*, No. 6:14-cv-01881-RBD-KRS.

Document from Defendants’ First Supplemental Disclosure of Non-Infringement and Invalidity Contentions that purported to be Standard for Safety UL 810 Capacitors, Underwriters Laboratories Inc. having multiple dates ranging from 1976 to 1988 (22 pages).

First Amended Answer and affirmative defenses to 1 Complaint by Cornell-Dubilier Electronics, Inc. (Allaman, Melissa) (Entered: Feb. 4, 2015).

First Amended Answer and affirmative defenses to 1 Complaint by Packard Inc. (Allaman, Melissa) (Entered: Jan. 9, 2015).

Hudis, Martin et al., “Motor-Run Capacitors,” *Motors & Motor Control*, undated (reprinted from Appliance Manufacturer, Oct. 1994) (3 pages).

Hudis, Martin, “Plastic Case Self-Protected Liquid Filled AC Capacitors for 70° Applications,” Presented at CAPTECH ’97, Mar. 1997, 7 pages.

Hudis, Martin, “Technology Evolution in Metallized Polymeric Film Capacitors over the Past 10 Years,” Presented at CARTS Symposium in Nice, France, Oct. 1996, 9 pages.

Joint Pre-Hearing Statement re: Claim Construction by American Radionic Company, Inc., Packard Inc., Cornell-Dubilier Electronics, Inc. (Attachments: #1 Exhibit 1, #2 Exhibit 2) (Graubart, Noah) Modified on Jul. 24, 2015.

Macomber, Laird L., et al., “New Solid Polymer Aluminum Capacitors Improve Reliability,” *Electro Power Electronics*, Oct. 1, 2001, 5 pages.

Macomber, Laird L., et al., “Solid Polymer Aluminum Capacitor Chips in DC-DC Converter Modules Reduce Cost and Size and Improve High-Frequency Performance,” *PCIM Power Electronics 2001 Proceeding for the PowerSystems World Conference*, Sep. 2001, 8 pages.

Mallory Distributor Products Co., 1967 Precision Electronic Components Catalog, 52 pages.

Minute Entry, Proceedings of Claim Construction Hearing held before Judge Roy B. Dalton, Jr. on Aug. 24, 2015. Court Report: Arnie First (VMF) (FMV). (Entered: Aug. 24, 2015).

Notice of Filing of Claim Construction Evidence by American Radionic Company, Inc. (Attachments: #1 Exhibit 1, #2 Exhibit 2, #3 Exhibit 3) (Graubart, Noah) Modified on Aug. 25, 2015 (EJS). (Entered: Aug. 25, 2015).

Order granting 69 Motion for Consent Judgment and Injunction, Signed by Judge Roy B. Dalton, Jr. on Nov. 5, 2015. (CAC) (Entered Nov. 5, 2015).

Parente, Audrey, “Can-sized device the right fit,” *The Daytona Beach News-Journal*, Jan. 3, 2005 (2 pages).

Photograph 1 from Defendants’ First Supplemental Disclosure of Non-Infringement and Invalidity Contentions, undated (1 page).

Photograph 10, undated (1 page).

Photograph 11, undated (1 page).

Photograph 12, undated (1 page).

Photograph 13, undated (1 page).

Photograph 14, undated (1 page).

Photograph 15, undated (1 page).

Photograph 16, undated (1 page).

Photograph 17, undated (1 page).

Photograph 18, undated (1 page).

Photograph 19, undated (1 page).

Photograph 2 from Defendants’ First Supplemental Disclosure of Non-Infringement and Invalidity Contentions, undated (1 page).

Photograph 20, undated (1 page).

Photograph 3 from Defendants’ First Supplemental Disclosure of Non-Infringement and Invalidity Contentions, undated (1 page).

Photograph 4 from Defendants’ First Supplemental Disclosure of Non-Infringement and Invalidity Contentions, undated (1 page).

Photograph 5 from Defendants’ First Supplemental Disclosure of Non-Infringement and Invalidity Contentions, undated (1 page).

Photograph 6 from Defendants’ First Supplemental Disclosure of Non-Infringement and Invalidity Contentions, undated (1 page).

Photograph 7 from Defendants’ First Supplemental Disclosure of Non-Infringement and Invalidity Contentions, undated (1 page).

Photograph 8, undated (1 page).

Photograph 9, undated (1 page).

Plaintiff’s Brief re 59 Declaration Plaintiff’s Claim Construction Brief filed by American Radionic Company, Inc. (Graubart, Noah) (Entered May 18, 2015).

Response to Plaintiff's Claim Construction Brief re 60 Brief—
Plaintiff filed by Cornell-Dubliner Electronics, Inc., Packard Inc.
(Killen, Craig) Modified on Jul. 17, 2015 (EJS). (Entered Jul. 16,
2015).

Status report Joint Claim Construction Statement by American
Radionic Company, Inc., Packard Inc., and Cornell-Dubliner Elec-
tronics, Inc. (Attachments: #1 Exhibit 1, #2 Exhibit 2) (Graubart,
Noah) Modified on May 29, 2015 (SWT). (Entered: May 28, 2015).
Transcript of Markman Hearing held on Aug. 24, 2015 before Judge
Roy B. Dalton, Jr., Court Reporter Arnie R. First, DRD, CCC<
ArnieFirst.CourtReporter@gmail.com. Transcript may be viewed at
the court public terminal or purchased through the Court Reporter
before the deadline for Release of Transcript Restriction. After that
date it may be obtained through PACER or purchased through the
court Reporter, Redaction Request due Oct. 22, 2015. Redacted
Transcript Deadline set for Nov. 2, 2015. Release of Transcript
Restriction set for Dec. 30, 2015. (ARF) (Entered: Oct. 1, 2015).
International Search Report and Written Opinion, PCT/US2014/
39003, dated Oct. 2, 2014, 12 pages.

* cited by examiner

Primary Examiner — Thomas Johannes

Assistant Examiner — Lauren McVey

(74) *Attorney, Agent, or Firm* — Fish & Richardson P.C.

(57) **CLAIM**

The ornamental design for a capacitor, as shown and
described.

DESCRIPTION

FIG. 1 is a front top-left perspective view of a capacitor
showing my new design, taken at line 1 in FIG. 6;

FIG. 2 is a front elevation view thereof, taken at line 2 in
FIG. 1;

FIG. 3 is a rear elevation view thereof, taken at line 3 in FIG.
1;

FIG. 4 is a left side elevation view thereof, taken at line 4 in
FIG. 1;

FIG. 5 is a right side elevation view thereof, taken at line 5
in FIG. 1;

FIG. 6 is a top plan view thereof; and,

FIG. 7 is a bottom plan view thereof.

The dot-dash broken lines in FIGS. 1 and 6 are for reference
purposes only; the broken lines form no part of the claimed
design.

1 Claim, 4 Drawing Sheets

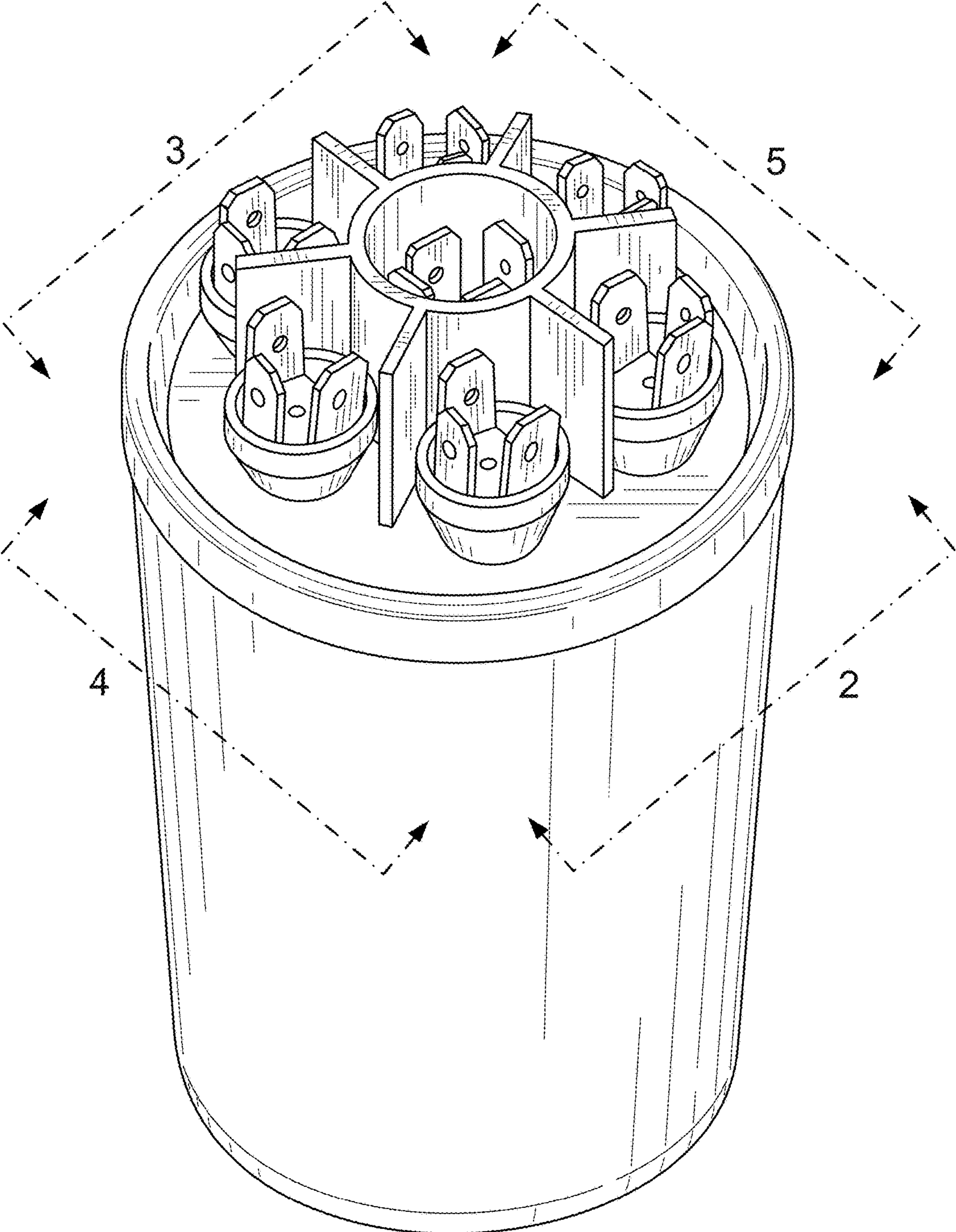


FIG. 1

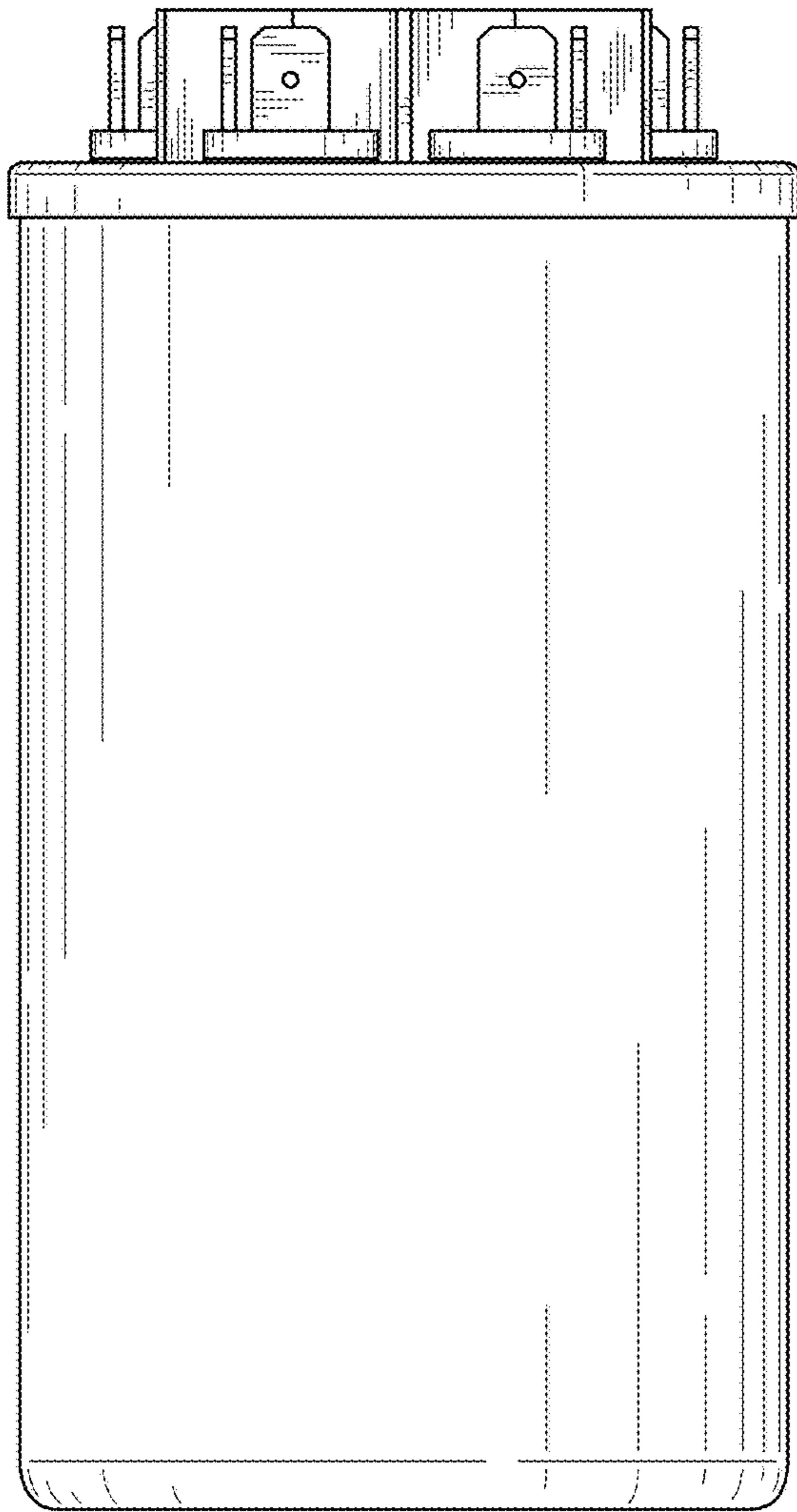


FIG. 2

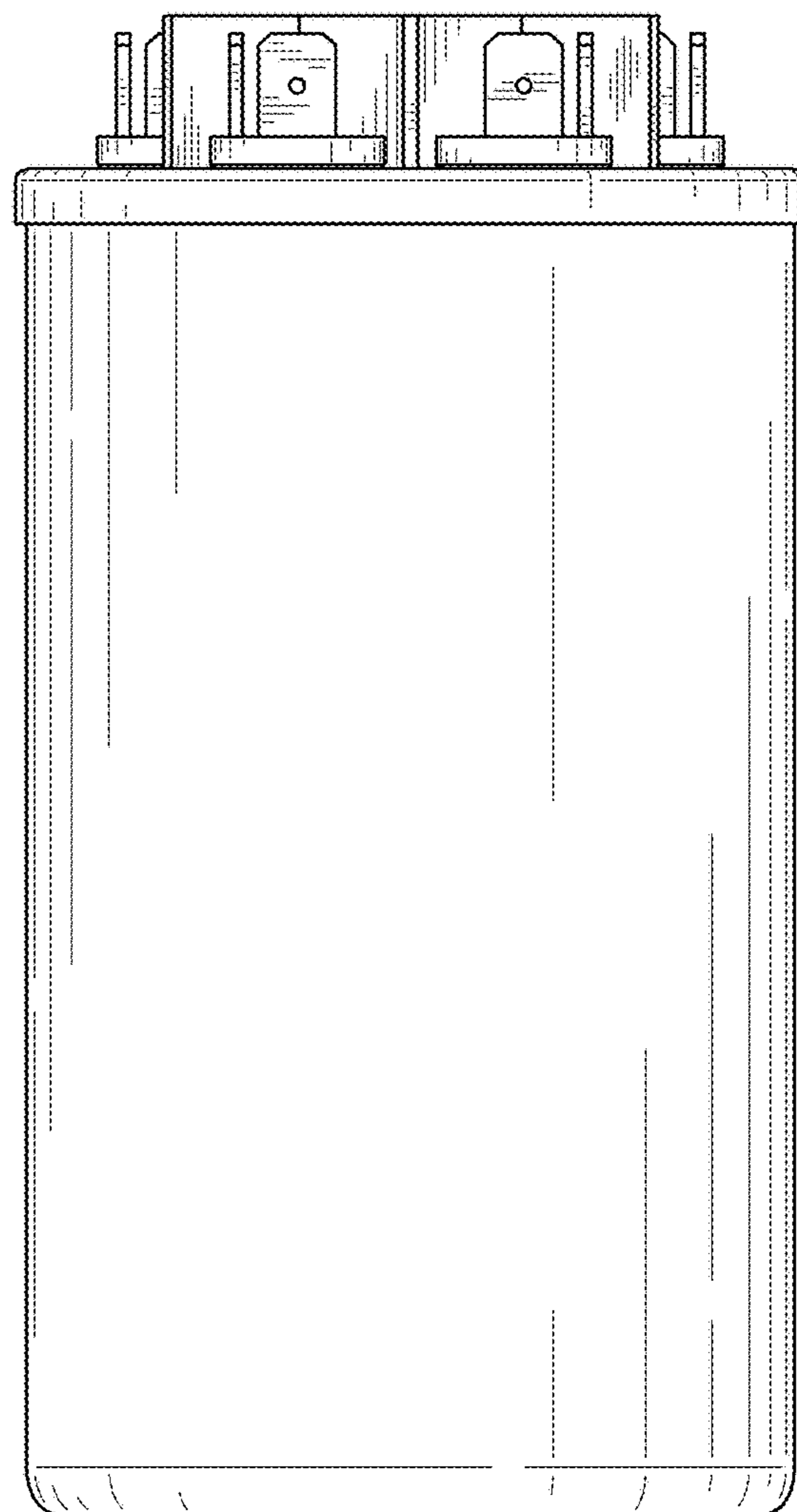


FIG. 3

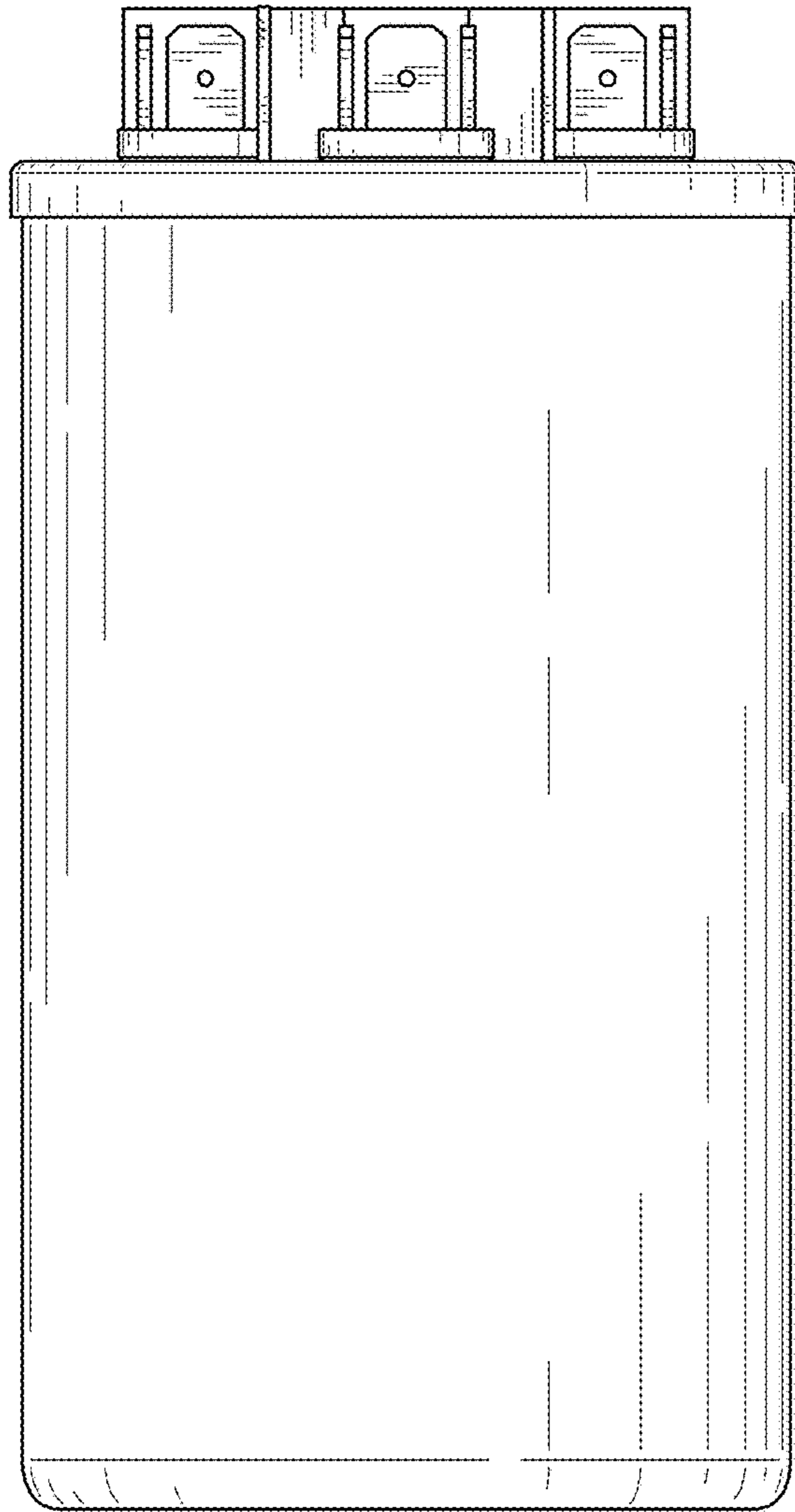


FIG. 4

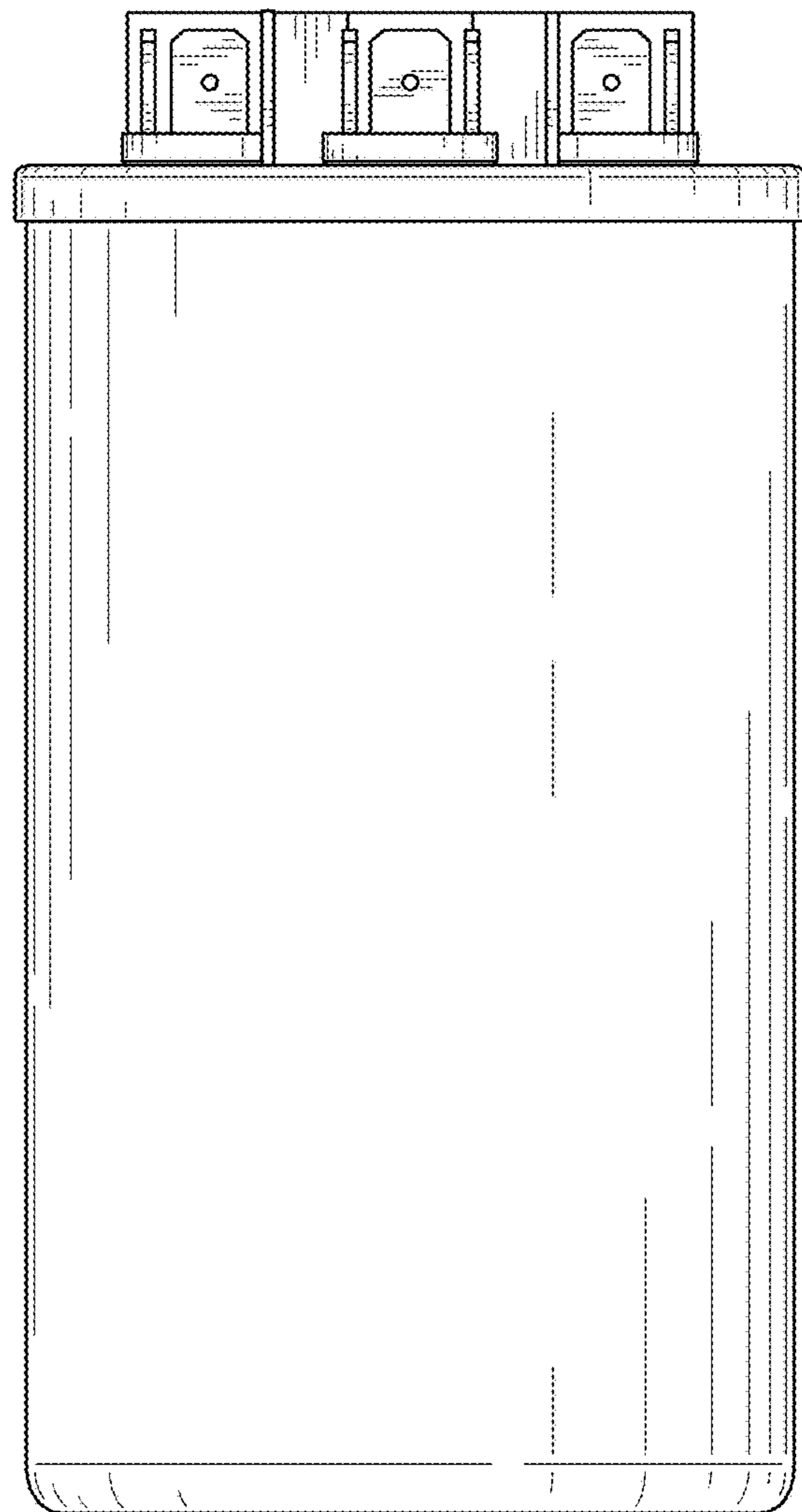


FIG. 5

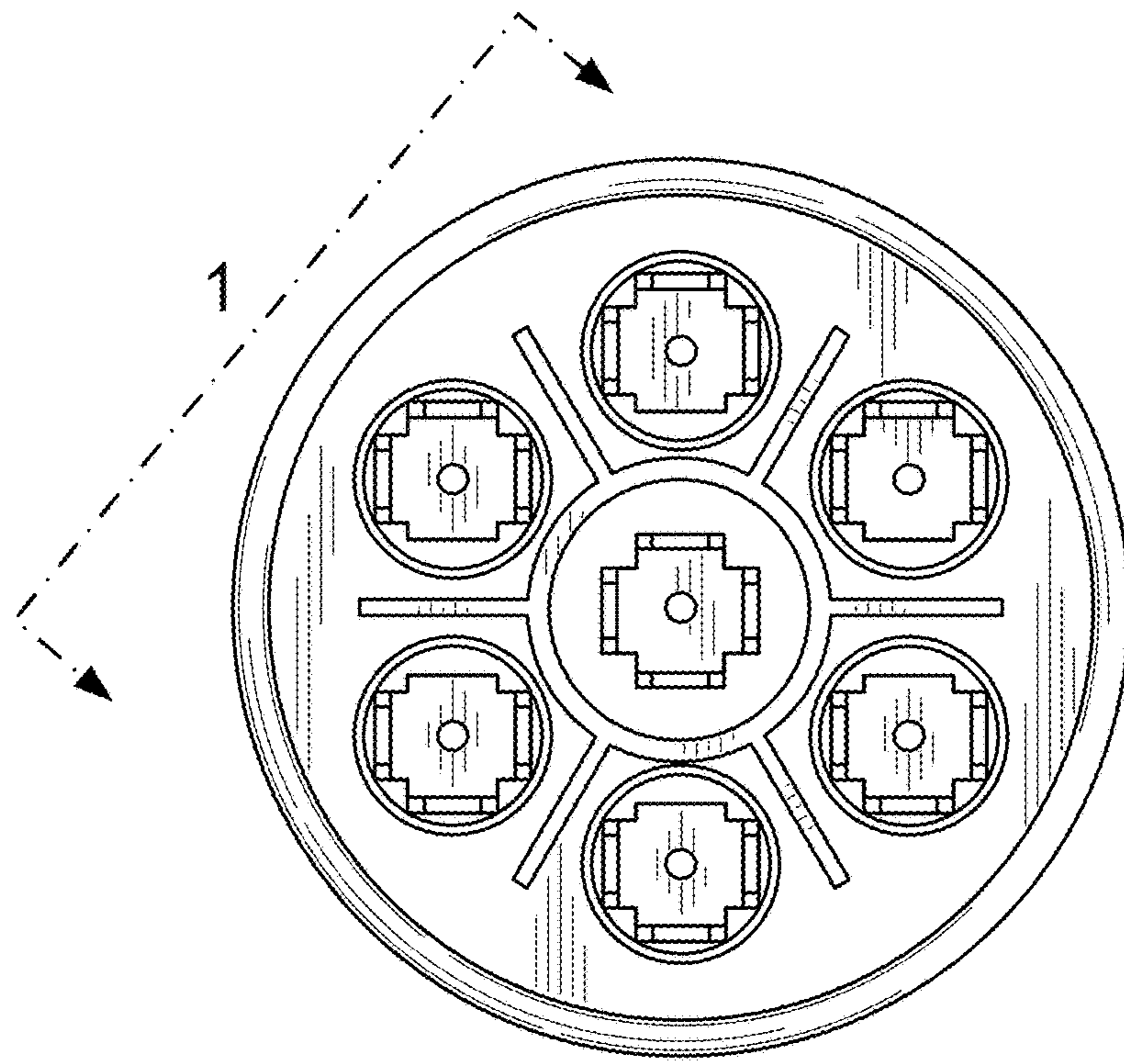


FIG. 6

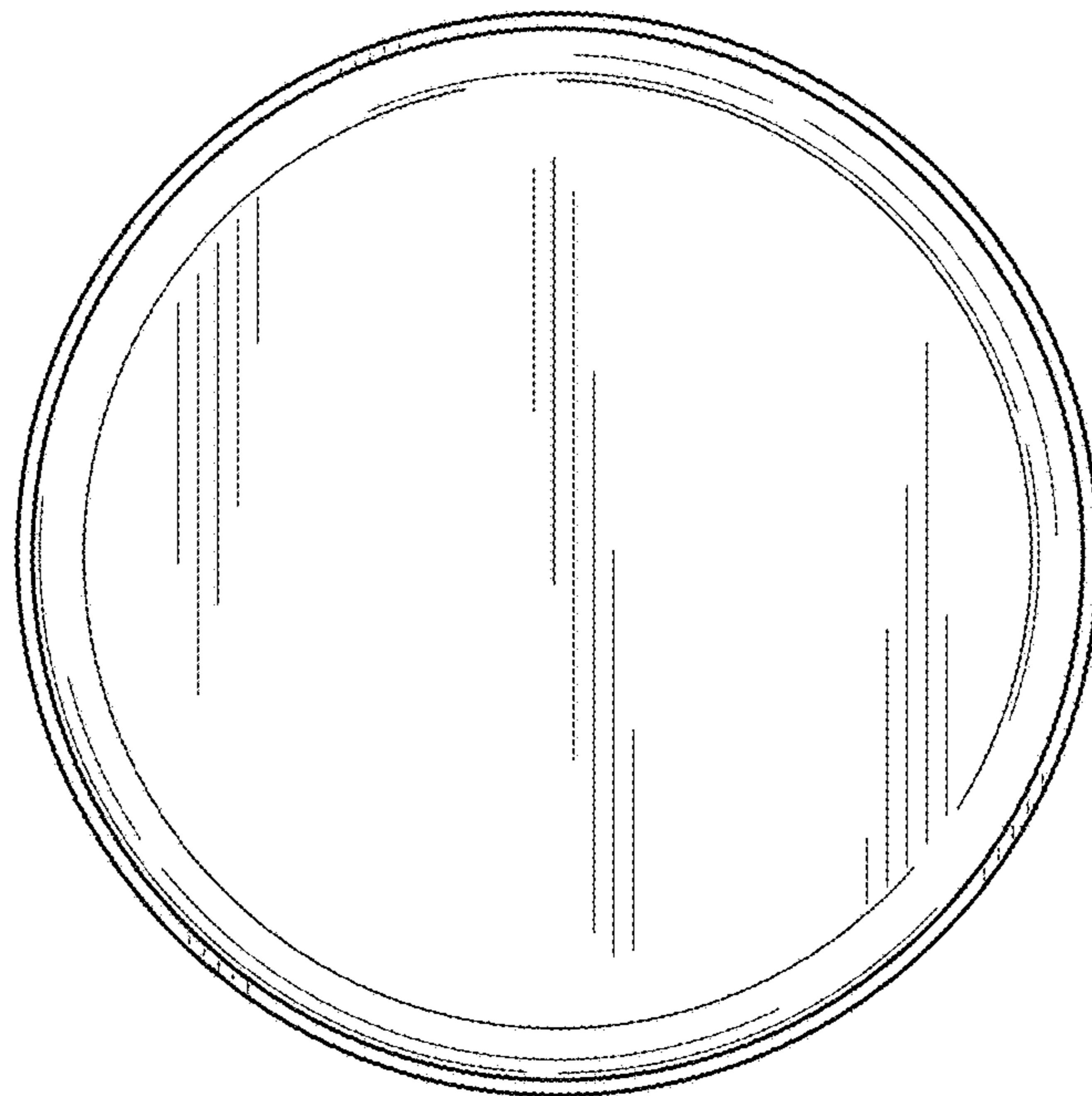


FIG. 7