



US00D779024S

(12) **United States Design Patent** (10) **Patent No.:** **US D779,024 S**
Burrow (45) **Date of Patent:** **** Feb. 14, 2017**

(54) **PROJECTILE APERTURE WICKING PATTERN**

7,441,504 B2 10/2008 Hussein et al.
7,610,858 B2 11/2009 Chung
7,750,091 B2 7/2010 Maljkovic et al.

(Continued)

(71) Applicant: **True Velocity, Inc.**, Dallas, TX (US)

(72) Inventor: **Lonnie Burrow**, Carrollton, TX (US)

(73) Assignee: **TRUE VELOCITY, INC.**, Dallas, TX (US)

FOREIGN PATENT DOCUMENTS

CA 2813634 A1 4/2012
EP 2625486 A1 8/2013

(Continued)

(**) Term: **15 Years**

OTHER PUBLICATIONS

(21) Appl. No.: **29/535,585**

(22) Filed: **Aug. 7, 2015**

(51) **LOC (10) Cl.** **22-03**

(52) **U.S. Cl.**
USPC **D22/116**

(58) **Field of Classification Search**
USPC D22/115–116
CPC F42B 30/02; F42B 5/02; F42B 5/26;
F42B 12/34; F42B 8/04; F42B
10/22; F42B 8/14; F41A 9/83; F41A
9/82; F41A 9/01; F41A 9/09; F41A 9/86
See application file for complete search history.

Korean Intellectual Property Office (ISA), International Search Report and Written Opinion for PCT/US2011/062781 dated Nov. 30, 2012, 16 pp.

Primary Examiner — Michael A Pratt

(74) *Attorney, Agent, or Firm* — Chainey P. Singleton; Edwin S. Flores; Chalker Flores, LLP

(57) **CLAIM**

The ornamental design for a projectile aperture wicking pattern, as shown and described.

DESCRIPTION

FIG. 1 is an isometric view of a cartridge showing my new design of the wicking pattern in the projectile aperture.

FIG. 2 is an isometric view of a projectile aperture showing my new design of the wicking pattern in the projectile aperture.

FIG. 3 is a top view of a cartridge showing my new design of the wicking pattern in the projectile aperture.

FIG. 4 is a cross sectional view along 4-4 of FIG. 3 showing my new design of the wicking pattern in the projectile aperture; and,

FIG. 5 is a cross sectional view along 5-5 of FIG. 3 showing my new design of the wicking pattern in the projectile aperture.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,955,506 A 5/1976 Luther et al.
4,228,724 A 10/1980 Leich
4,475,435 A 10/1984 Mantel
5,950,063 A 9/1999 Hens et al.
5,961,200 A 10/1999 Friis
6,004,682 A 12/1999 Rackovan et al.
6,272,993 B1 8/2001 Cook et al.
6,460,464 B1 10/2002 Attarwala
6,845,716 B2 1/2005 Hussein et al.
7,204,191 B2 4/2007 Wiley et al.
7,213,519 B2 5/2007 Wiley et al.
7,392,746 B2 7/2008 Hansen

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

8,443,730 B2 5/2013 Padgett
8,522,684 B2 9/2013 Davies et al.
8,561,543 B2 10/2013 Burrow
8,573,126 B2 11/2013 Klein et al.
8,763,535 B2 7/2014 Padgett
8,790,455 B2 7/2014 Borissov et al.
8,807,008 B2 8/2014 Padgett et al.
8,813,650 B2 8/2014 Maljkovic et al.
D715,888 S 10/2014 Padgett
8,869,702 B2 10/2014 Padgett
8,875,633 B2 11/2014 Padgett
8,978,559 B2 3/2015 Davies et al.
9,091,516 B2 7/2015 Davies et al.
2001/0013299 A1 8/2001 Husseini et al.
2003/0217665 A1 11/2003 Rennard
2005/0005807 A1 1/2005 Wiley
2005/0056183 A1 3/2005 Meshirer
2010/0016518 A1 1/2010 El-Hibri et al.
2010/0300319 A1 12/2010 Guindon
2010/0305261 A1 12/2010 Maljkovic et al.
2012/0024183 A1 2/2012 Klein

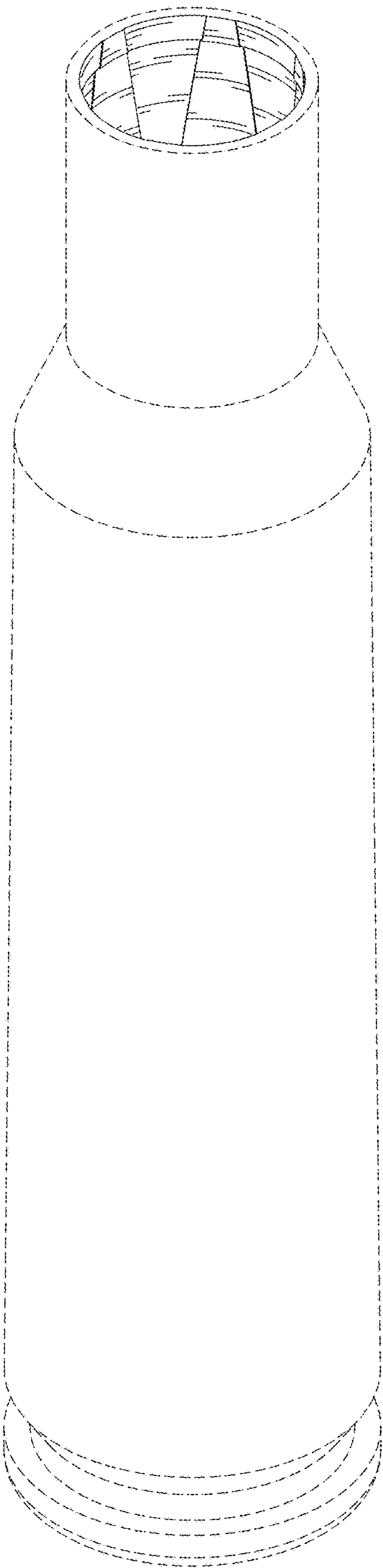
2012/0180687 A1 7/2012 Padgett et al.
2013/0180392 A1 7/2013 Nuetzman et al.
2014/0060372 A1 3/2014 Padgett
2014/0060373 A1 3/2014 Maljkovic et al.
2014/0076188 A1 3/2014 Maljkovic et al.
2014/0216293 A1 8/2014 Klein et al.
2014/0235784 A1 8/2014 Maljkovic et al.
2014/0260925 A1 9/2014 Beach et al.
2014/0373744 A1 12/2014 Padgett
2016/0003594 A1* 1/2016 Burrow F42B 5/307
86/10
2016/0003597 A1* 1/2016 Burrow F42B 5/307
86/18
2016/0033241 A1* 2/2016 Burrow F42B 5/307
102/466

FOREIGN PATENT DOCUMENTS

WO 2012047615 A1 4/2012
WO 2012097317 A2 7/2012
WO 2012097320 A1 7/2012
WO 2013070250 A1 5/2013
WO 2014062256 A2 4/2014

* cited by examiner

FIG. 1



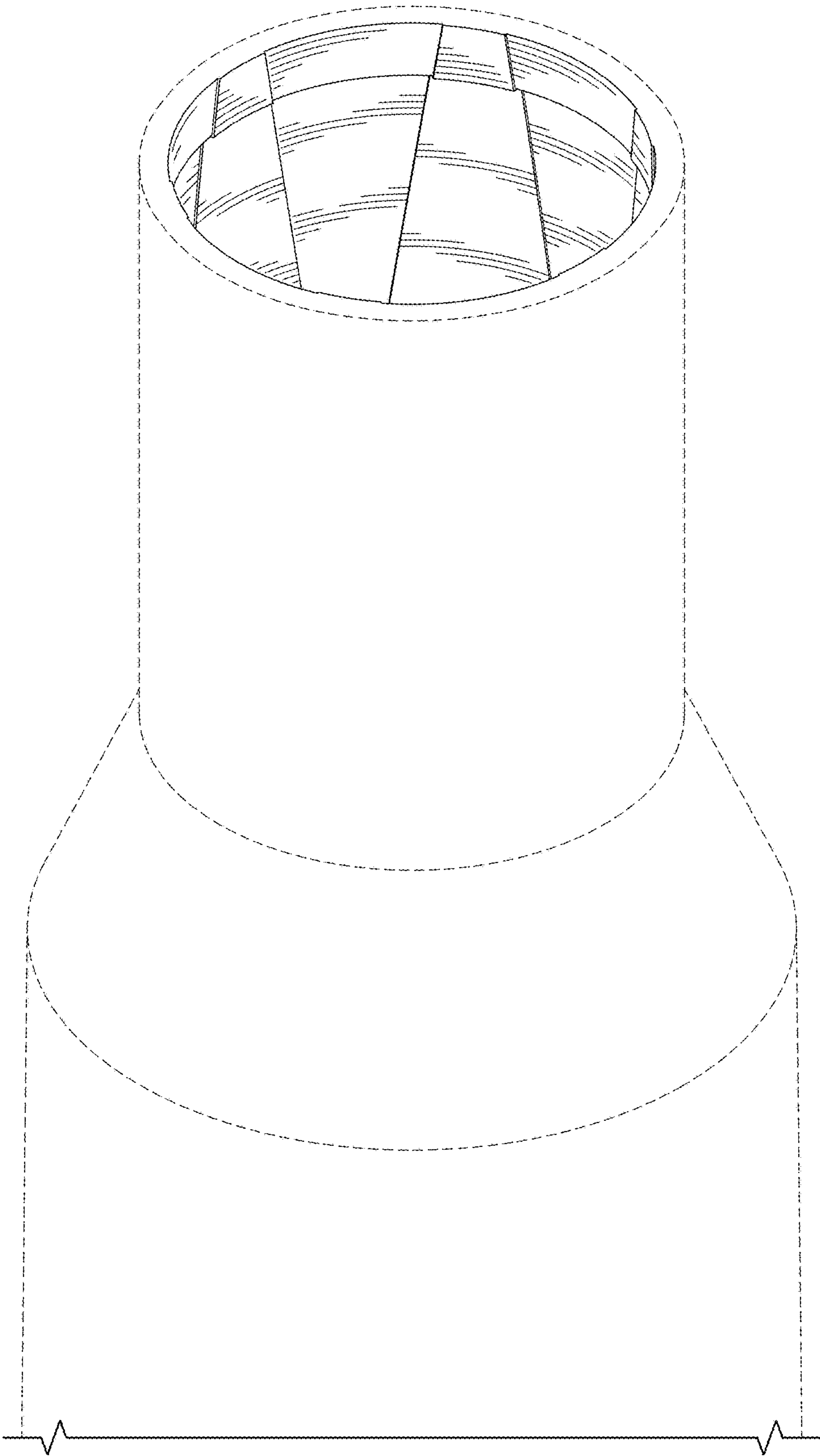


FIG. 2

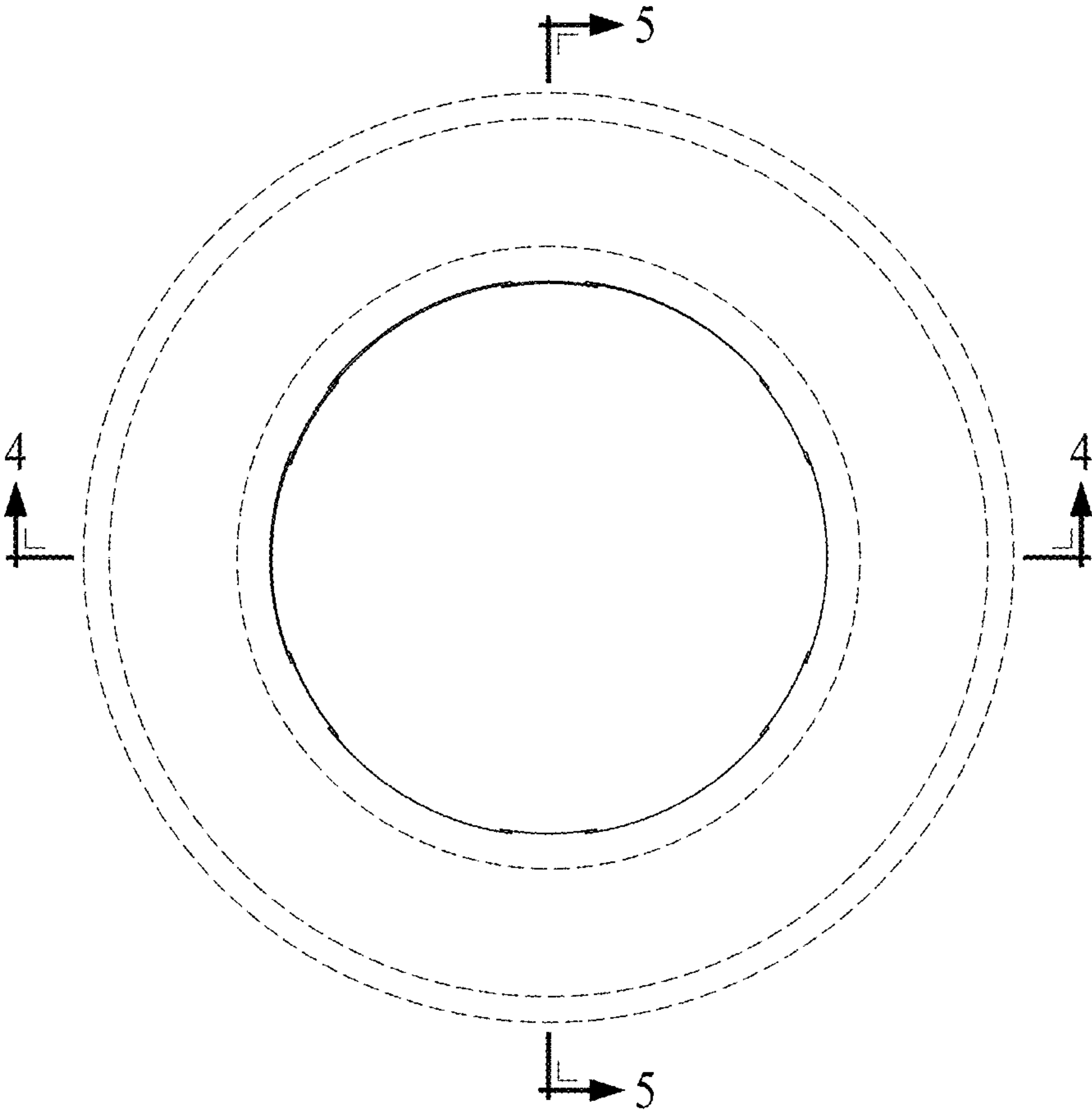


FIG. 3

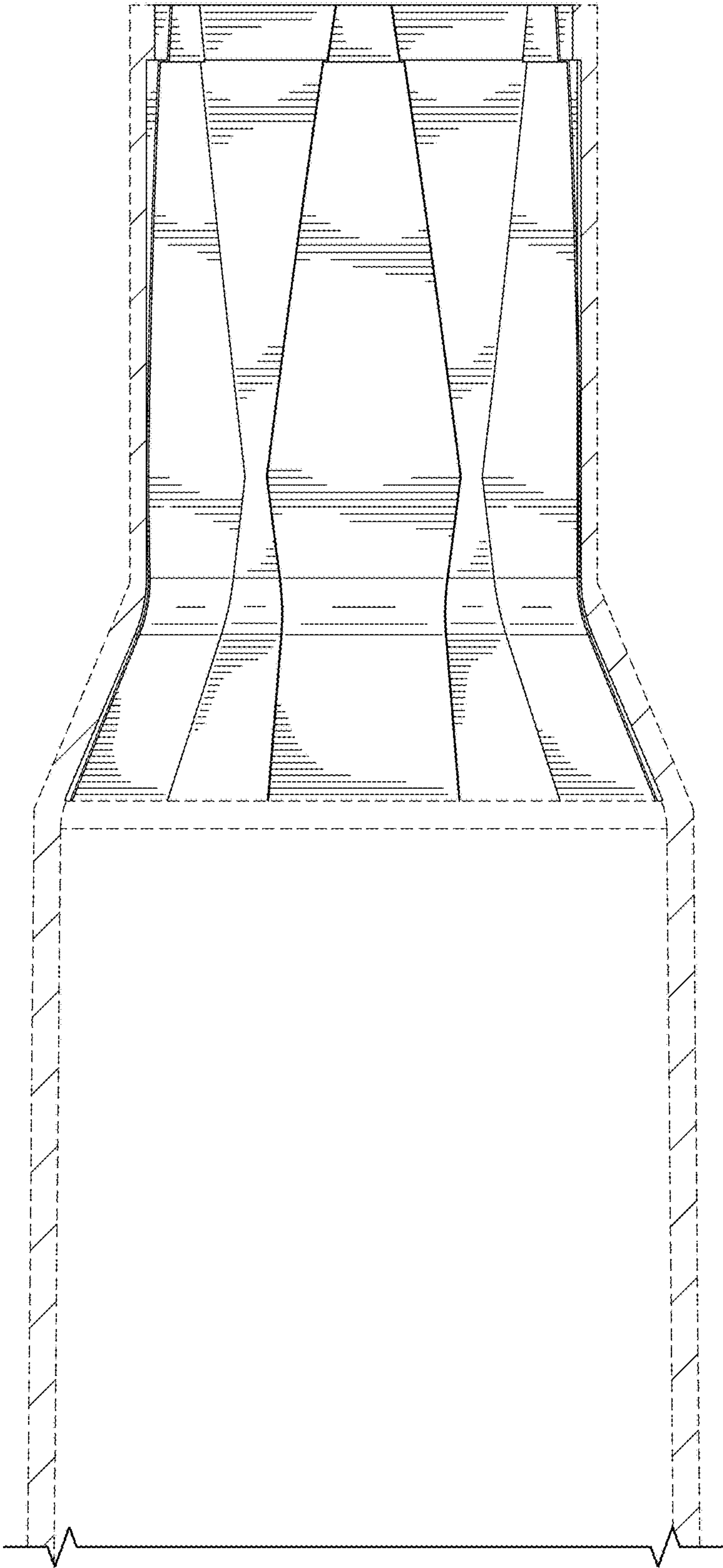


FIG. 4

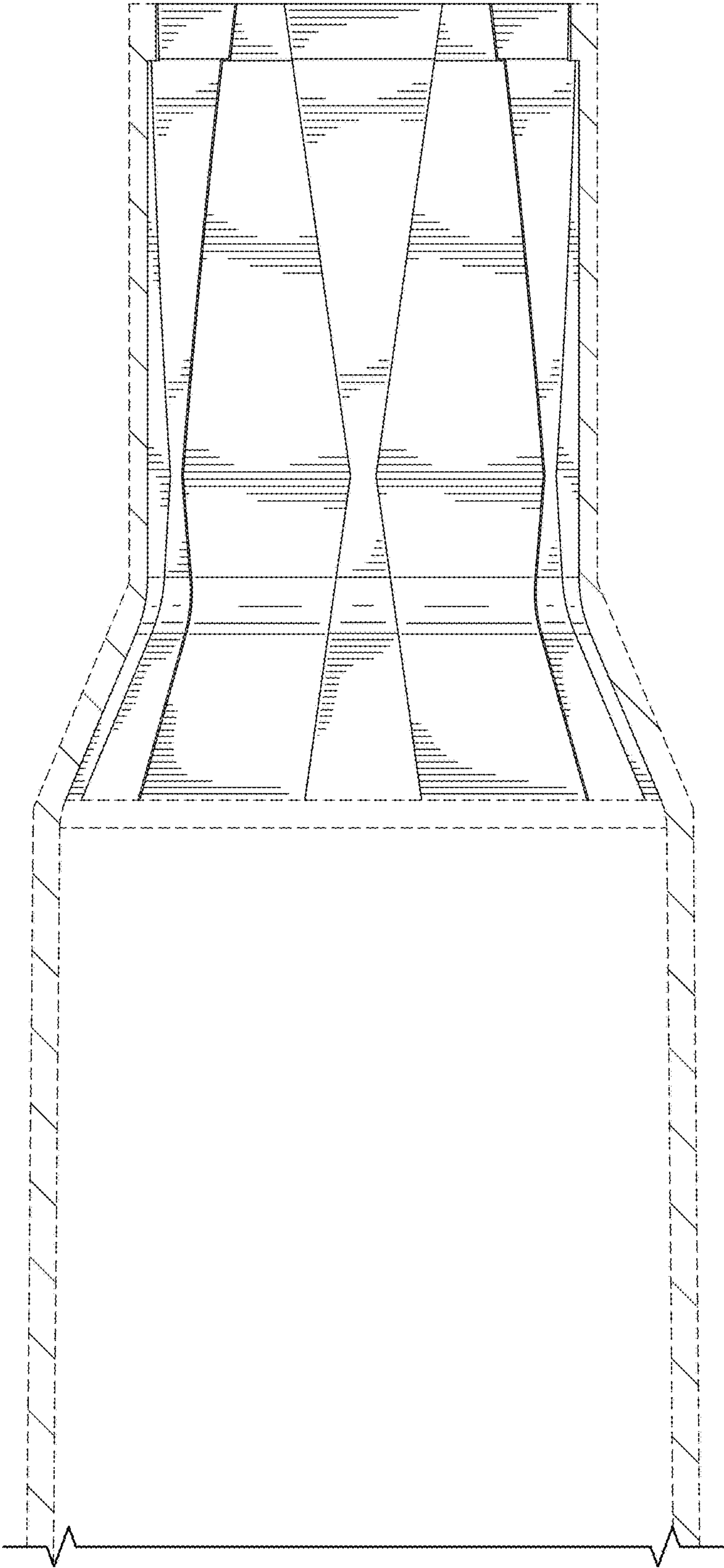


FIG. 5