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(12) **United States Design Patent**
Horton

(10) **Patent No.:** **US D629,904 S**

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(54) **SPINOUS PROCESS IMPLANT**

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(**) **Term:** **14 Years**

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(52) **U.S. Cl.** **D24/155**

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623/23.56, 247, 213, 11.11, 16.14, 20.23,
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D8/382

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- D181,779 S * 12/1957 Buralli D21/460
- D274,359 S * 6/1984 Christensen et al. D24/155
- 4,501,269 A 2/1985 Bagby
- D283,301 S * 4/1986 Spitz D8/382
- 4,581,962 A 4/1986 Marbourg
- 5,015,247 A 5/1991 Michelson
- 5,171,278 A * 12/1992 Pisharodi 623/17.16
- 5,306,307 A 4/1994 Senter et al.
- 5,458,638 A * 10/1995 Kuslich et al. 623/17.11
- 5,484,437 A 1/1996 Michelson
- 5,489,307 A 2/1996 Kuslich et al.
- 5,593,409 A 1/1997 Michelson
- 5,741,253 A 4/1998 Michelson
- 5,741,261 A 4/1998 Moskovitz et al.
- 5,860,973 A 1/1999 Michelson
- 5,954,635 A 9/1999 Foley et al.
- D416,189 S * 11/1999 Bollman D8/382
- 6,042,582 A 3/2000 Ray
- 6,080,155 A 6/2000 Michelson
- 6,210,412 B1 4/2001 Michelson
- 6,371,988 B1 4/2002 Pafford et al.
- 6,391,058 B1 * 5/2002 Kuslich et al. 623/17.11
- 6,485,518 B1 11/2002 Cornwall et al.
- 6,520,907 B1 2/2003 Foley et al.

- 6,540,747 B1 4/2003 Marino
- 6,562,046 B2 5/2003 Sasso
- 6,579,319 B2 6/2003 Goble et al.
- 6,902,578 B1 6/2005 Anderson et al.
- 6,923,810 B1 8/2005 Michelson

(Continued)

FOREIGN PATENT DOCUMENTS

WO 00/22998 A1 4/2000

(Continued)

OTHER PUBLICATIONS

Mathews, "Percutaneous Interbody Fusions", Orthopedic Clinics of North America, Oct. 1, 1998, pp. 647-653, vol. 29, Issue 4, published by Elsevier, Inc.

(Continued)

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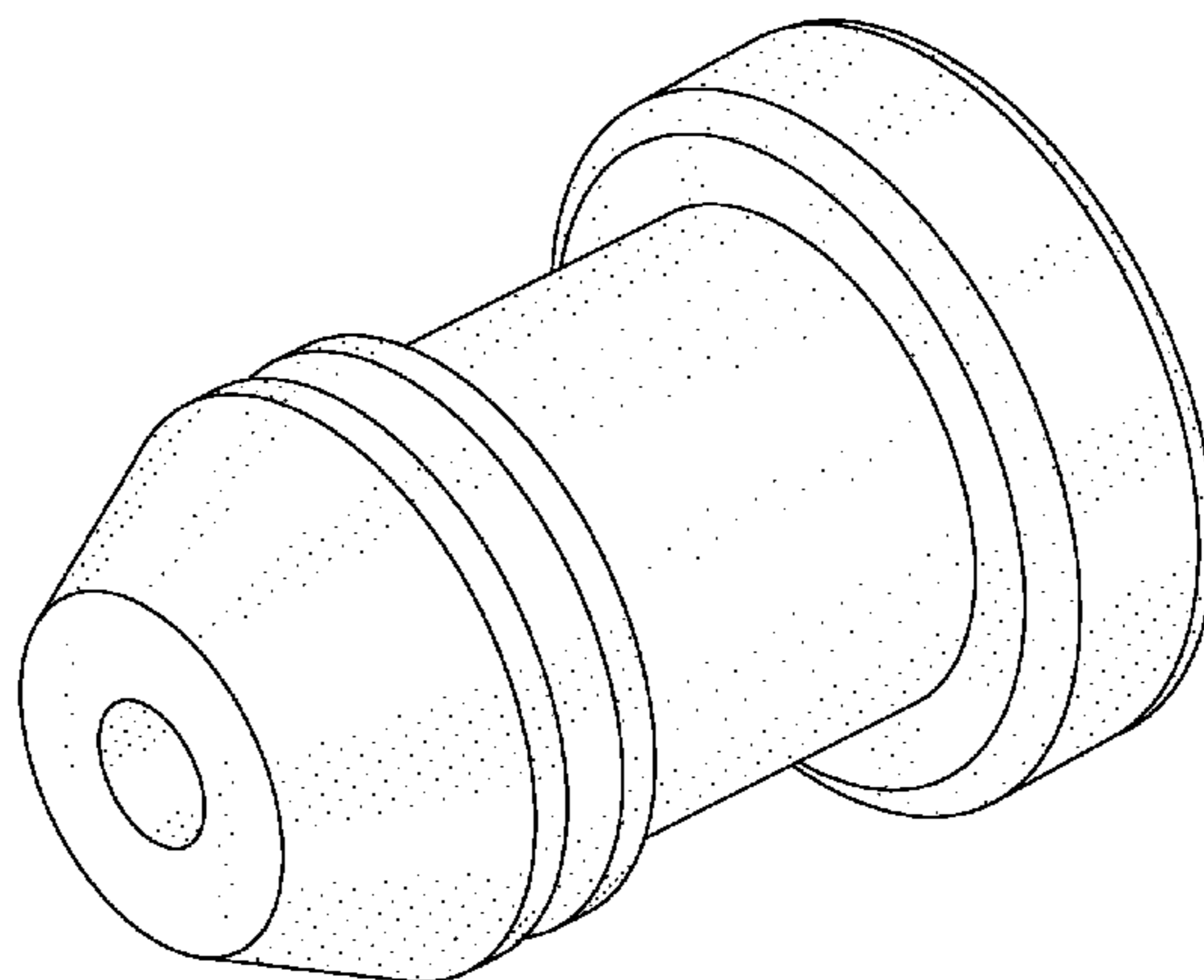
(57) **CLAIM**

I claim the ornamental design for a spinous process implant, as shown and described.

DESCRIPTION

FIG. 1 is a front right perspective view of the spinous process implant showing my new design;
FIG. 2 is a front elevation view thereof;
FIG. 3 is a rear elevation view thereof; and,
FIG. 4 is a side elevation view thereof.

1 Claim, 2 Drawing Sheets



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U.S. PATENT DOCUMENTS

6,923,811 B1 8/2005 Carl et al.
6,942,698 B1 9/2005 Jackson
7,223,269 B2 5/2007 Chappuis
D563,212 S * 3/2008 Campbell D8/382
D574,495 S 8/2008 Petersen
D574,957 S 8/2008 Petersen
D581,538 S * 11/2008 Horton D24/155
7,452,369 B2 11/2008 Barry
D595,855 S * 7/2009 Petersen D24/155
D622,581 S * 8/2010 Caggiano D8/382
2004/0087948 A1 5/2004 Suddaby
2004/0143268 A1 7/2004 Falahee
2004/0215344 A1 10/2004 Hochschuler et al.
2005/0015150 A1 1/2005 Lee
2005/0065516 A1 3/2005 Jahng
2005/0149030 A1 7/2005 Serhan et al.
2006/0036264 A1 2/2006 Selover et al.
2006/0064099 A1 3/2006 Pavlov et al.
2006/0111779 A1 5/2006 Petersen
2006/0111782 A1 5/2006 Petersen

2007/0250166 A1 10/2007 McKay
2008/0255667 A1 10/2008 Horton
2009/0131986 A1 5/2009 Lee et al.

FOREIGN PATENT DOCUMENTS

WO 2007/120903 A2 10/2007

OTHER PUBLICATIONS

Polly, Jr. et al., "Surgical Treatment for the Painful Motion Segment", *Spine*, 2005, pp. S44-S51, vol. 30, No. 16S, published by Lippincott Williams & Wilkins, Inc.

Powers, et al., "Minimally Invasions Fusion and Fixation Techniques", *Neurosurgery Clinics of North America*, Oct. 2006, pp. 447-489, vol. 17, Issue 4, published by Elsevier, Inc.

Seldomridge, et al., "Minimally Invasions Spine Surgery", *The American Journal of Orthopedics*, May 2005, pp. 224-232.

Stein, et al., "Percutaneous Facet Joint Fusion: Preliminary Experience", *Journal of Vascular and Interventional Radiology*, Jan.-Feb. 1993, pp. 69-74, vol. 4, No. 1.

* cited by examiner

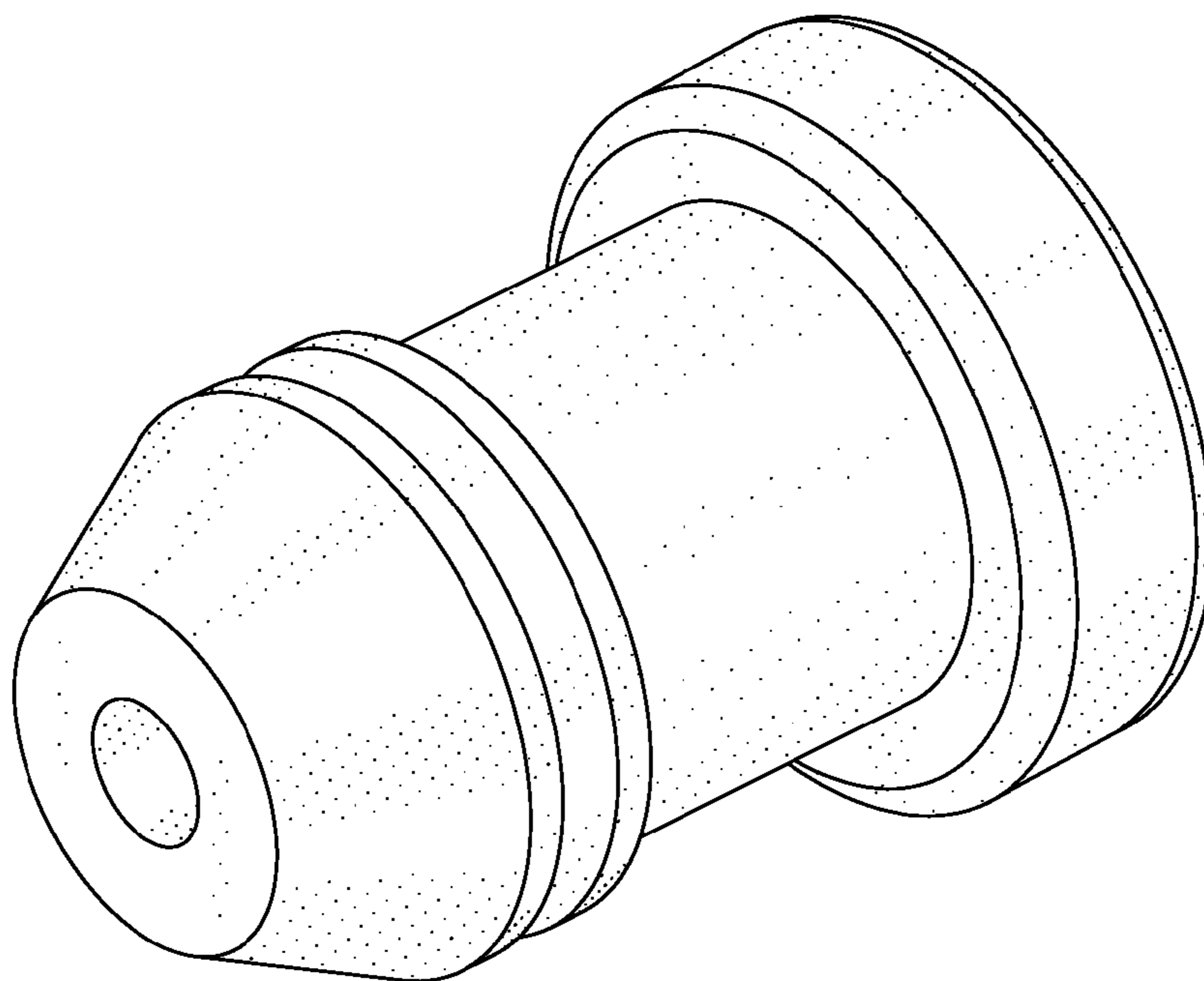


FIG. 1

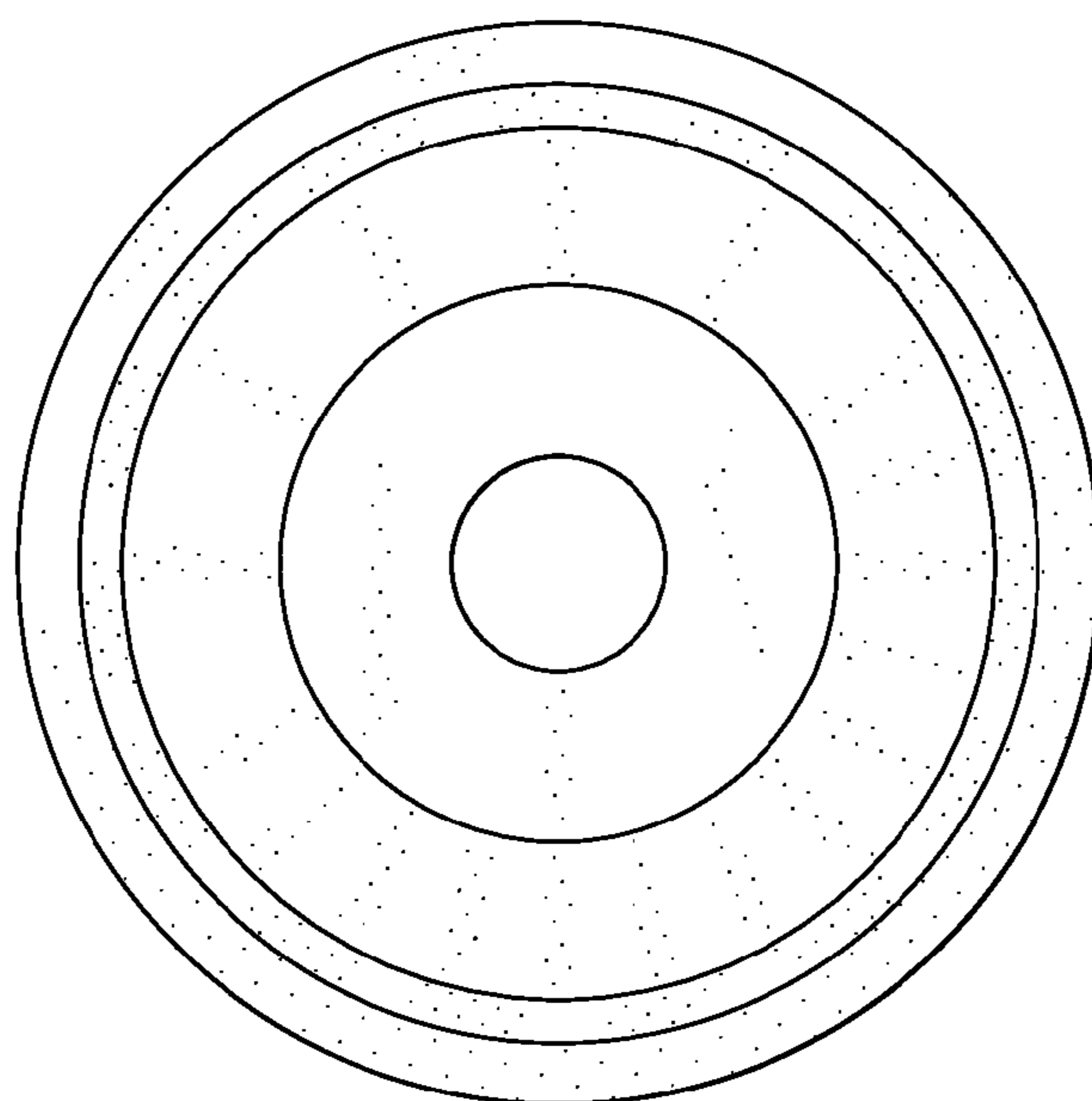


FIG. 2

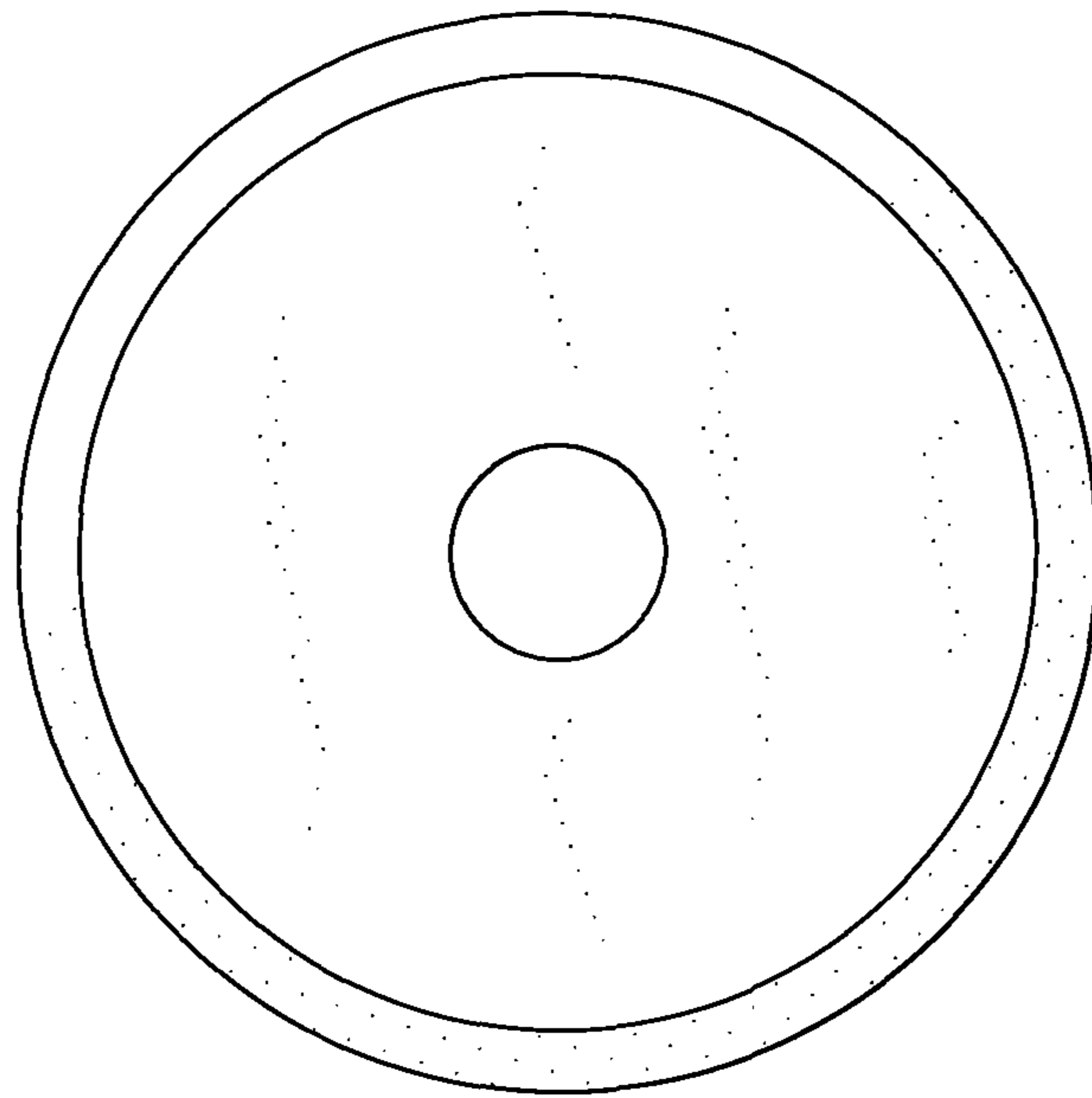


FIG. 3

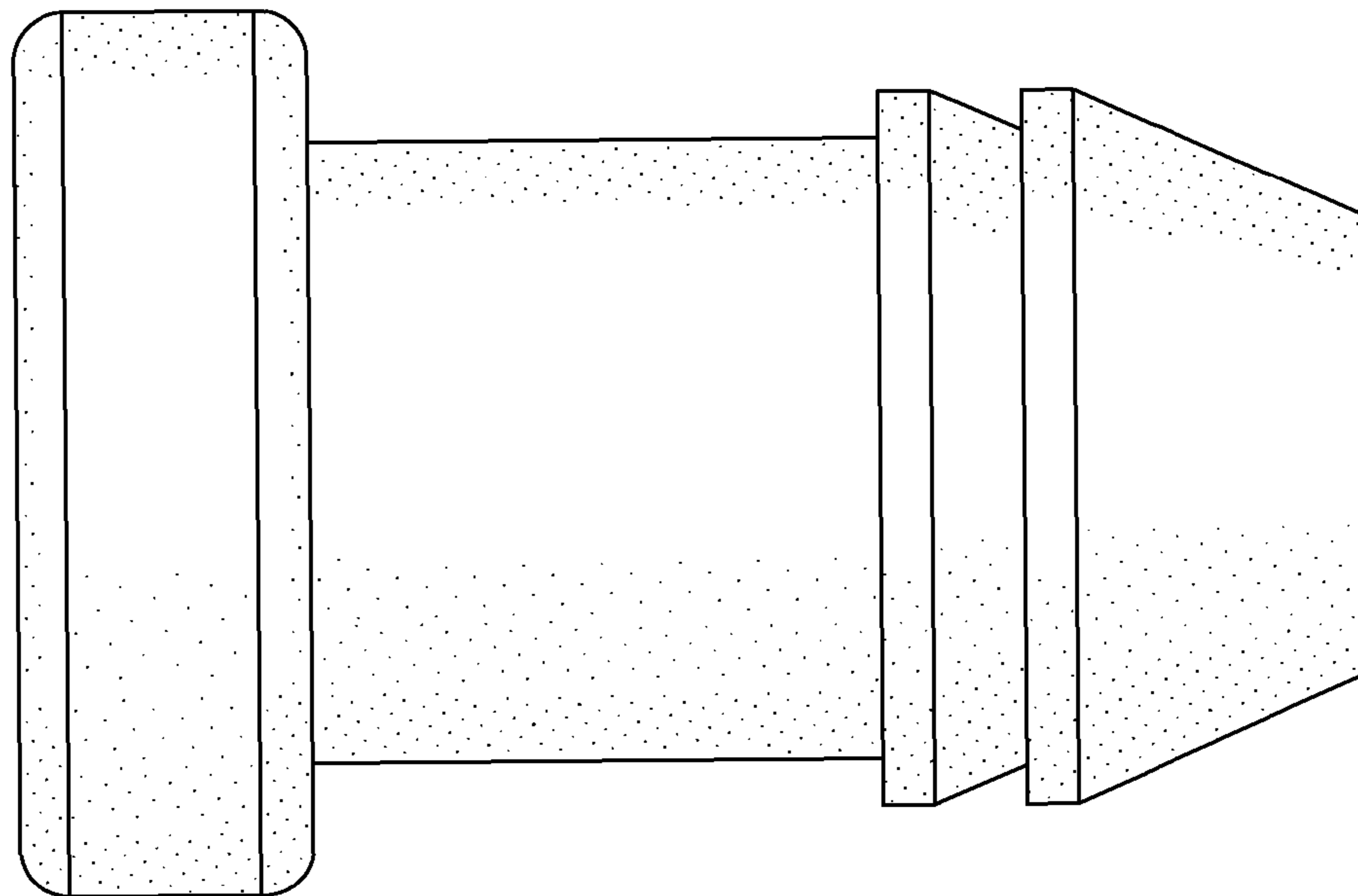


FIG. 4