



US00D893028S

(12) **United States Design Patent** (10) **Patent No.:** **US D893,028 S**
Schwartz (45) **Date of Patent:** **** Aug. 11, 2020**

(54) **MICRO-NEEDLE ARRAY HOLDER**
(71) Applicant: **ProCell Therapies, LLC**, Clearwater, FL (US)
(72) Inventor: **Mitchell Edward Schwartz**, Clearwater, FL (US)
(73) Assignee: **Pro Cell Therapies, LLC**, Clearwater, FL (US)

(**) Term: **15 Years**
(21) Appl. No.: **29/604,916**
(22) Filed: **May 22, 2017**

Related U.S. Application Data

(62) Division of application No. 29/543,622, filed on Oct. 27, 2015, now Pat. No. Des. 791,946.
(51) **LOC (12) Cl.** **24-02**
(52) **U.S. Cl.**
USPC **D24/146**
(58) **Field of Classification Search**
USPC D24/146, 147, 104, 112-114, 127, 130, D24/133; D32/25, 40, 35; D28/7, 73, D28/76, 82, 85, 86, 87, 88; D19/115-204
CPC A61M 2037/0023; A61M 37/0015; A61M 2037/0046; A61B 5/150022; A61B 5/150183; A61B 5/150259; A61B 5/153113; A61B 5/15117; A61B 5/15142; A45D 2200/1072; A45D 40/00; A45D 40/16; A45D 40/24; A45D 2040/204; A45D 40/06; A45D 40/18; A45D 40/265; B43K 23/12; B43K 8/003; B43K 8/024; B43L 19/0056
See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS
D429,814 S 8/2000 Lorwald et al.
D493,532 S 7/2004 Levaughn et al.

D510,139 S * 9/2005 Gilad D24/104
D555,241 S 11/2007 Nakanishi
D560,805 S 1/2008 Young et al.
D595,410 S 6/2009 Luzon
D612,939 S * 3/2010 Boone, III D24/133
D639,998 S * 6/2011 Liu D19/901
D648,024 S 11/2011 Harkin et al.
D654,217 S * 2/2012 Brodish D28/7
D686,366 S * 7/2013 Ruiz, Sr. D28/7
D692,184 S * 10/2013 DeMarco D28/88

(Continued)

Primary Examiner — Samantha Q Lawrence
(74) *Attorney, Agent, or Firm* — Thomas G. Ference

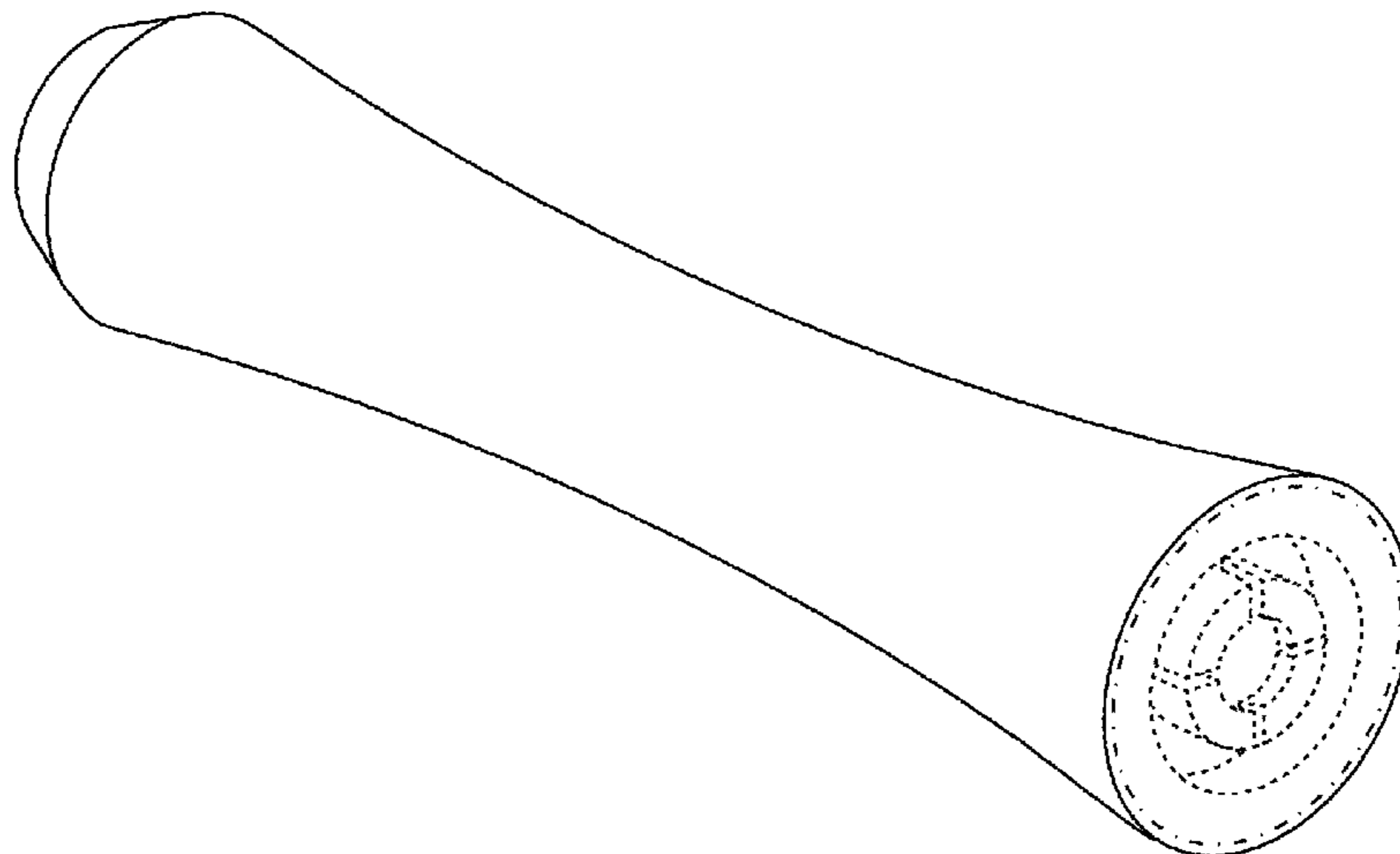
(57) **CLAIM**

The ornamental design for a micro-needle array holder, as shown and described.

DESCRIPTION

FIG. 1 is a bottom perspective view of a micro-needle array holder showing my new design;
FIG. 2 is a front elevational view of FIG. 1, the rear elevational view, right-side elevational view and left-side elevational view all being identical thereto;
FIG. 3 is a bottom plan view of FIG. 1;
FIG. 4 is a top plan view of FIG. 1; and,
FIG. 5 is a bottom perspective view of the micro-needle array holder of FIG. 1 integrated with a micro-needle array showing the intended use.
The dot-dash broken lines shown in FIGS. 1, 3 and 4 illustrate a boundary of the claimed design and form no part thereof.
The broken lines shown in FIGS. 1, 3 and 4 illustrate portions of the micro-needle array holder that form no part of the claimed design.
The broken lines shown in FIG. 5 illustrates environment and form no part of the claimed design.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D697,807 S * 1/2014 Servaire D28/76
D702,554 S * 4/2014 Cole D28/76
D726,316 S 4/2015 Marquez
D740,492 S * 10/2015 Huang D28/76
D742,505 S 11/2015 Ettlin
D748,865 S * 2/2016 Hall D28/85
D791,946 S * 7/2017 Schwartz D24/146
D865,281 S * 10/2019 Robinson D28/7
2004/0039302 A1 2/2004 Kim

* cited by examiner

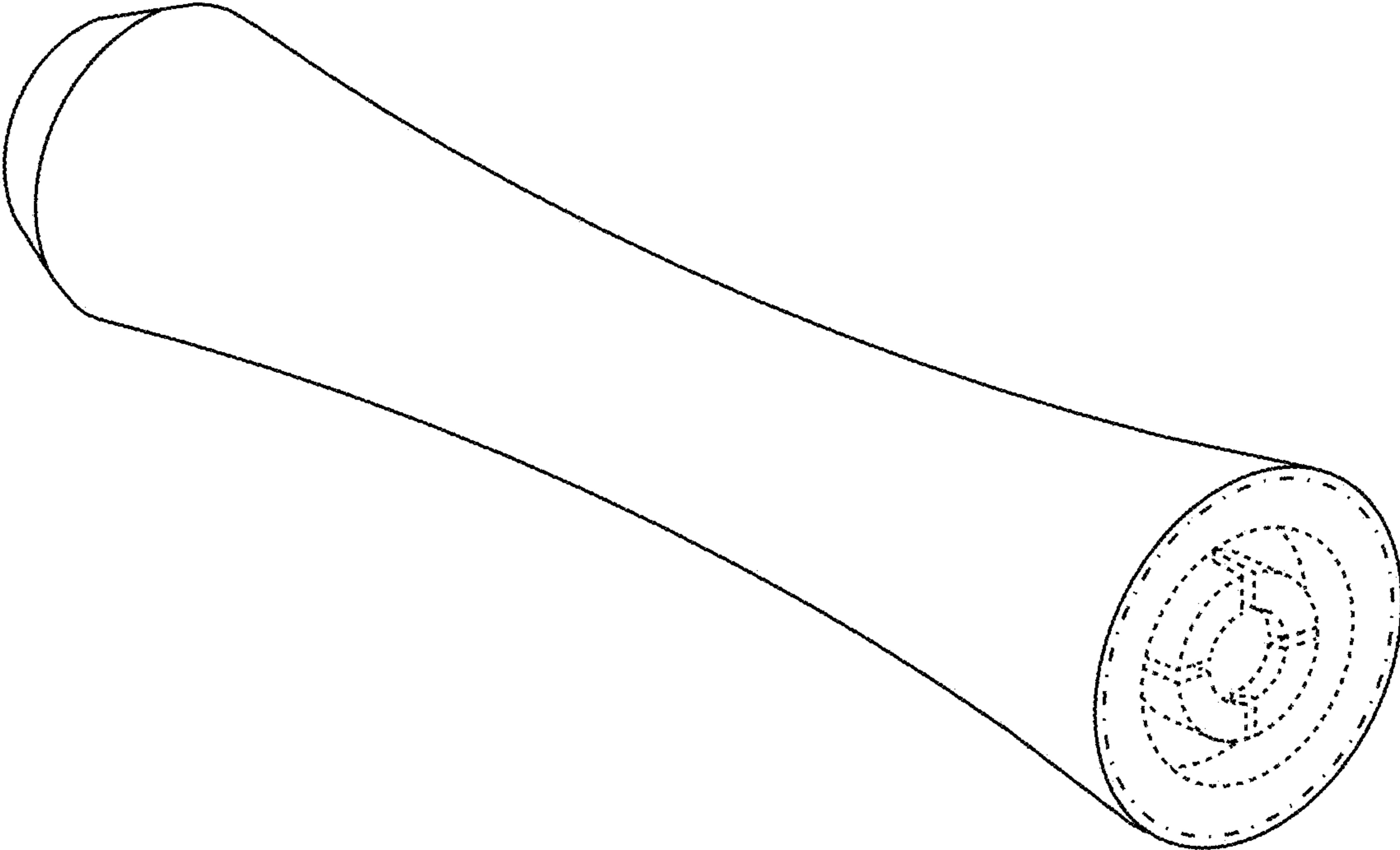


Figure 1

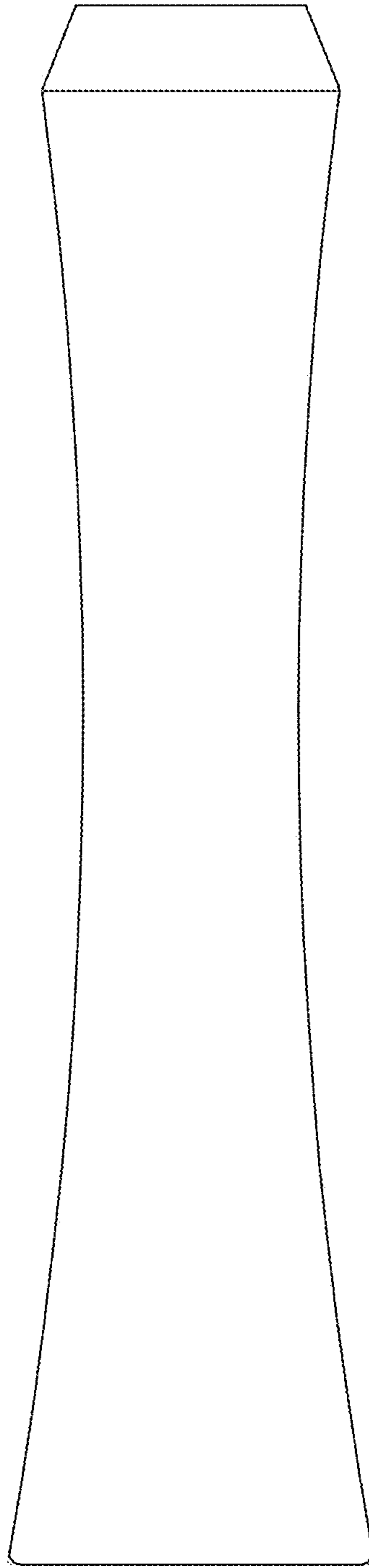


Figure 2

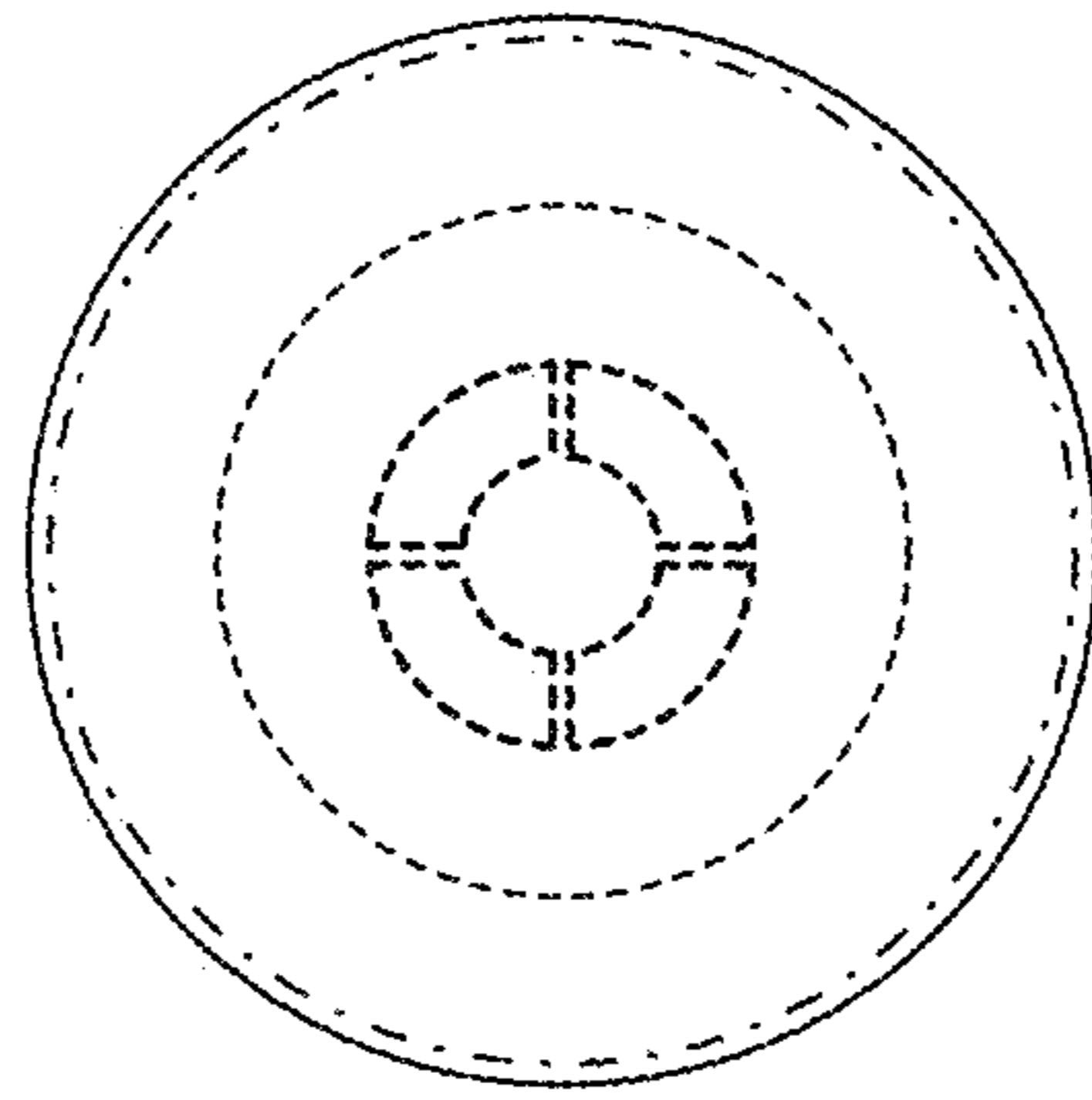


Figure 3

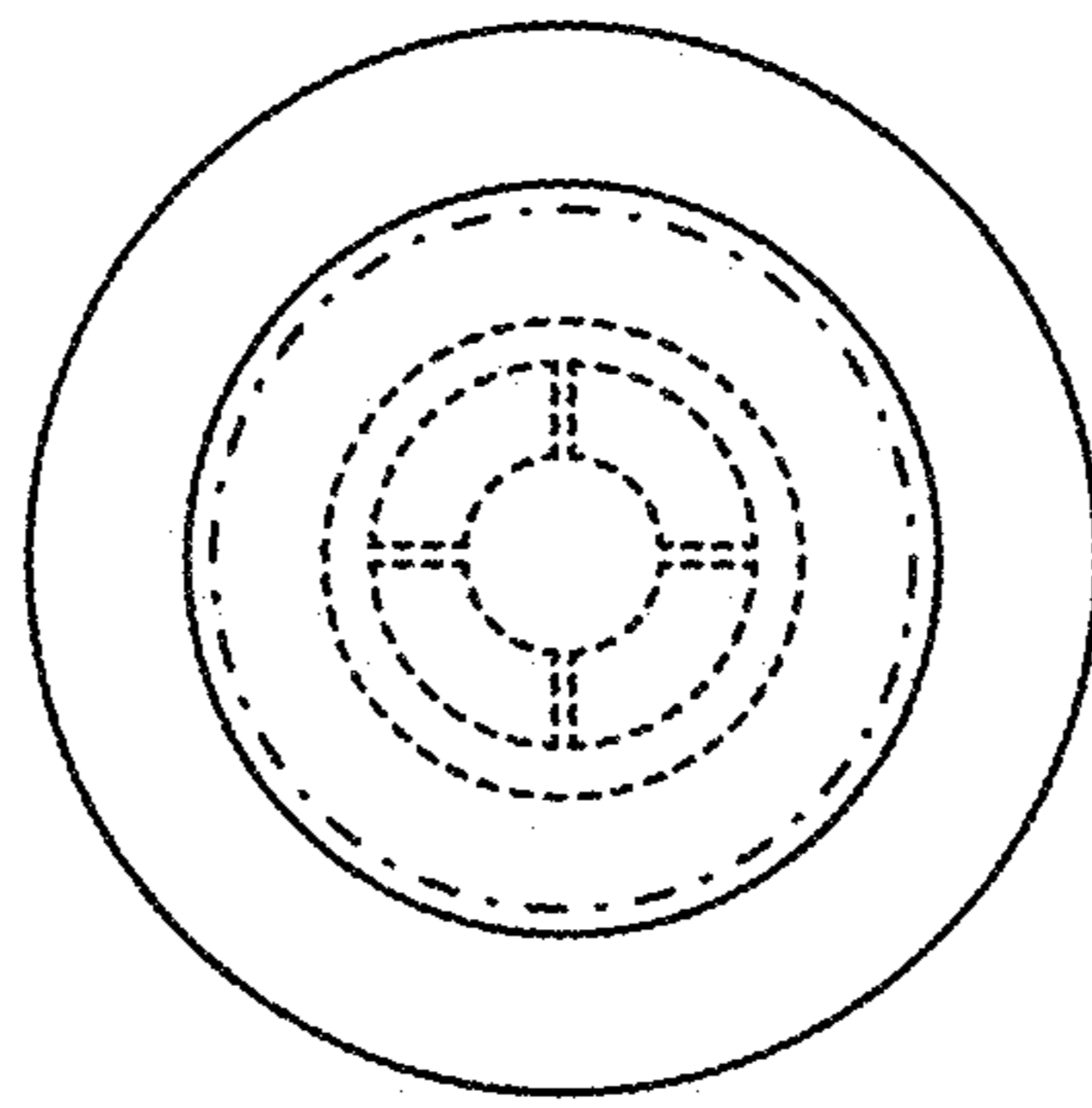


Figure 4

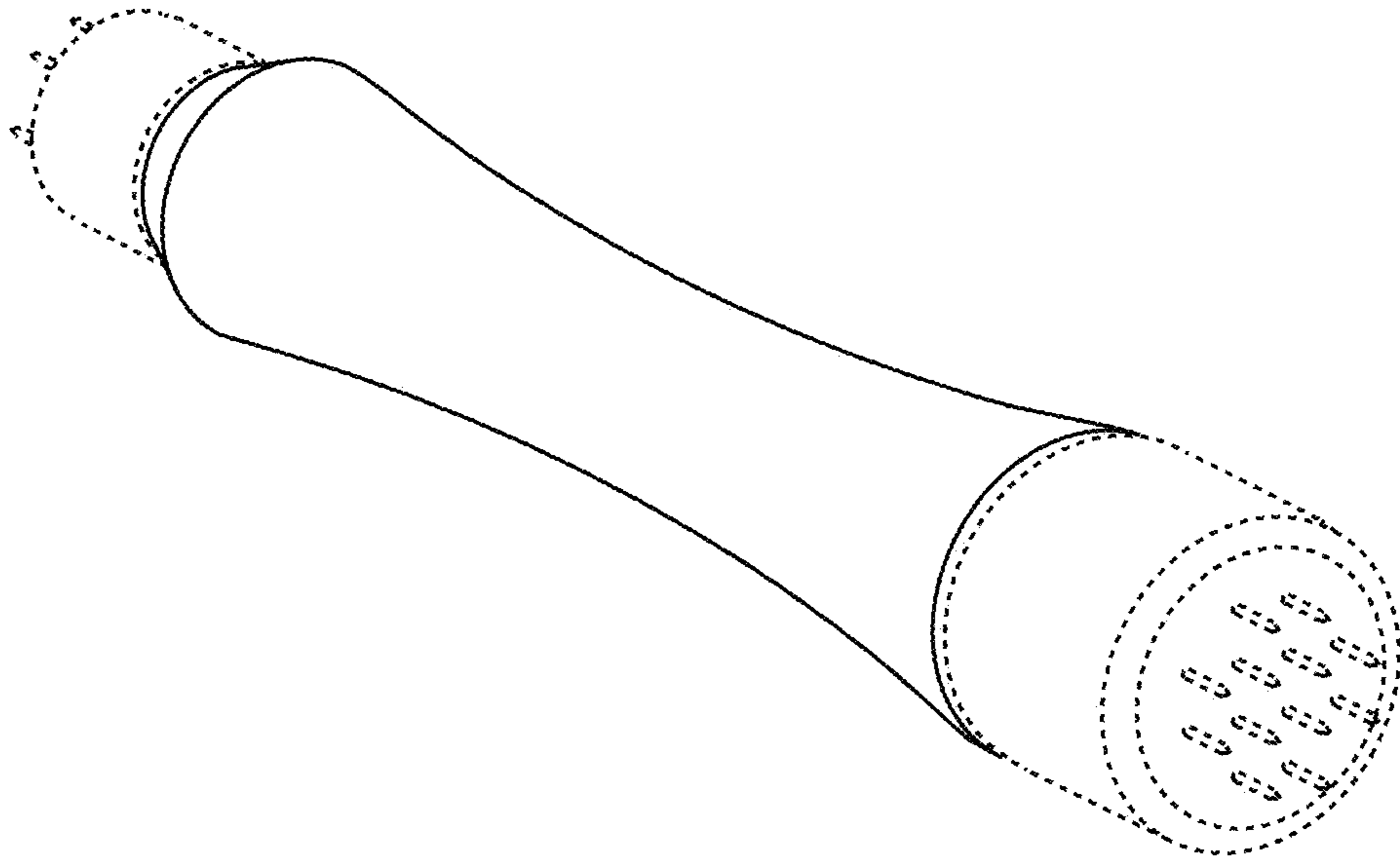


Figure 5