



US00D973872S

(12) **United States Design Patent** (10) **Patent No.:** **US D973,872 S**  
**Borowek et al.** (45) **Date of Patent:** **\*\* Dec. 27, 2022**

(54) **PUSHROD**

9,775,951 B2 \* 10/2017 Boehm ..... B29C 45/0046  
D819,203 S \* 5/2018 Grunhut ..... D24/130  
D911,519 S \* 2/2021 Newlove ..... D24/130  
D938,025 S \* 12/2021 Pitulat ..... D24/127

(Continued)

(71) Applicant: **Merz Pharma GmbH & Co. KGaA**,  
Frankfurt am Main (DE)

(72) Inventors: **Dany Borowek**, Frankfurt am Main  
(DE); **Kai Tiesberger**, Weinheim (DE);  
**Sophie Costiou Charretour**, Milan  
(IT)

FOREIGN PATENT DOCUMENTS

JP D1575941 \* 5/2017  
WO D213992-002 \* 10/2021  
WO D213992-003 \* 10/2021

(73) Assignee: **MERZ PHARMA GMBH & CO.**  
**KGAA**, Frankfurt am Main (DE)

OTHER PUBLICATIONS

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

BD Plunger Rods, BD, [Post Date unknown], [Site seen Aug. 3, 2022], Seen at URL: <https://drugdeliversystems.bd.com/products/prefillable-syringe-systems/add-ons-and-components/plunger-rods> (Year: 2022).\*

(21) Appl. No.: **29/772,649**

(22) Filed: **Mar. 3, 2021**

(Continued)

(30) **Foreign Application Priority Data**

Oct. 30, 2020 (EM) ..... 008220818-0015

(51) **LOC (13) Cl.** ..... **24-02**

(52) **U.S. Cl.**  
USPC ..... **D24/130**

(58) **Field of Classification Search**  
USPC .... D24/108, 110.6, 112-114, 127, 129, 130,  
D24/133, 146, 147, 186, 231  
CPC ..... A61M 5/31501; A61M 2005/3151; A61M  
5/3148; A61M 5/31513; A61M 5/31515  
See application file for complete search history.

*Primary Examiner* — Natasha Vujcic  
*Assistant Examiner* — Gilbert B Ford

(74) *Attorney, Agent, or Firm* — Gregory L. Mayback;  
Dickinson Wright PLLC

(57) **CLAIM**

We claim, the ornamental design for a pushrod, as shown and described.

**DESCRIPTION**

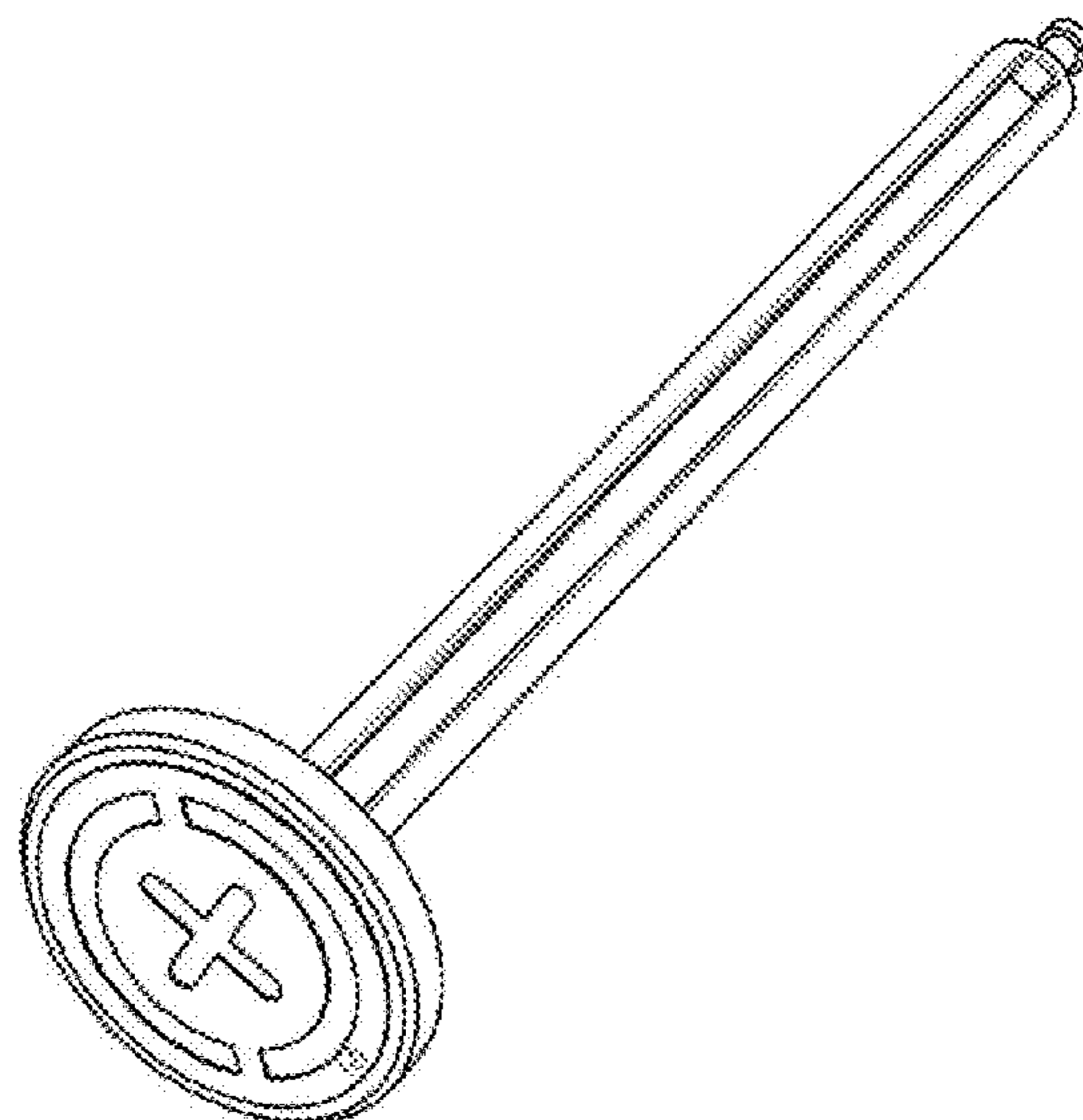
FIG. 1 is a side perspective view of a pushrod showing our new design;  
FIG. 2 is a top plan view thereof;  
FIG. 3 is a bottom plan view thereof;  
FIG. 4 is a front side elevation view thereof;  
FIG. 5 is a back side elevation view thereof;  
FIG. 6 is right side elevation thereof; and,  
FIG. 7 is a left side elevation view thereof.  
The broken lines in the drawings illustrate portions of the pushrod and form no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D203,730 S \* 2/1966 Coanda ..... 604/218  
D322,317 S \* 12/1991 Fischer ..... D24/114  
D432,231 S \* 10/2000 Balestracci ..... D24/114  
D590,500 S \* 4/2009 Sudo ..... D24/130  
D594,119 S \* 6/2009 Berberich ..... D24/108  
D689,188 S \* 9/2013 Lundquist ..... D24/130  
D690,807 S \* 10/2013 Ivosevic ..... D24/130  
D722,160 S \* 2/2015 Armstrong ..... D24/130

**1 Claim, 2 Drawing Sheets**



(56)

**References Cited**

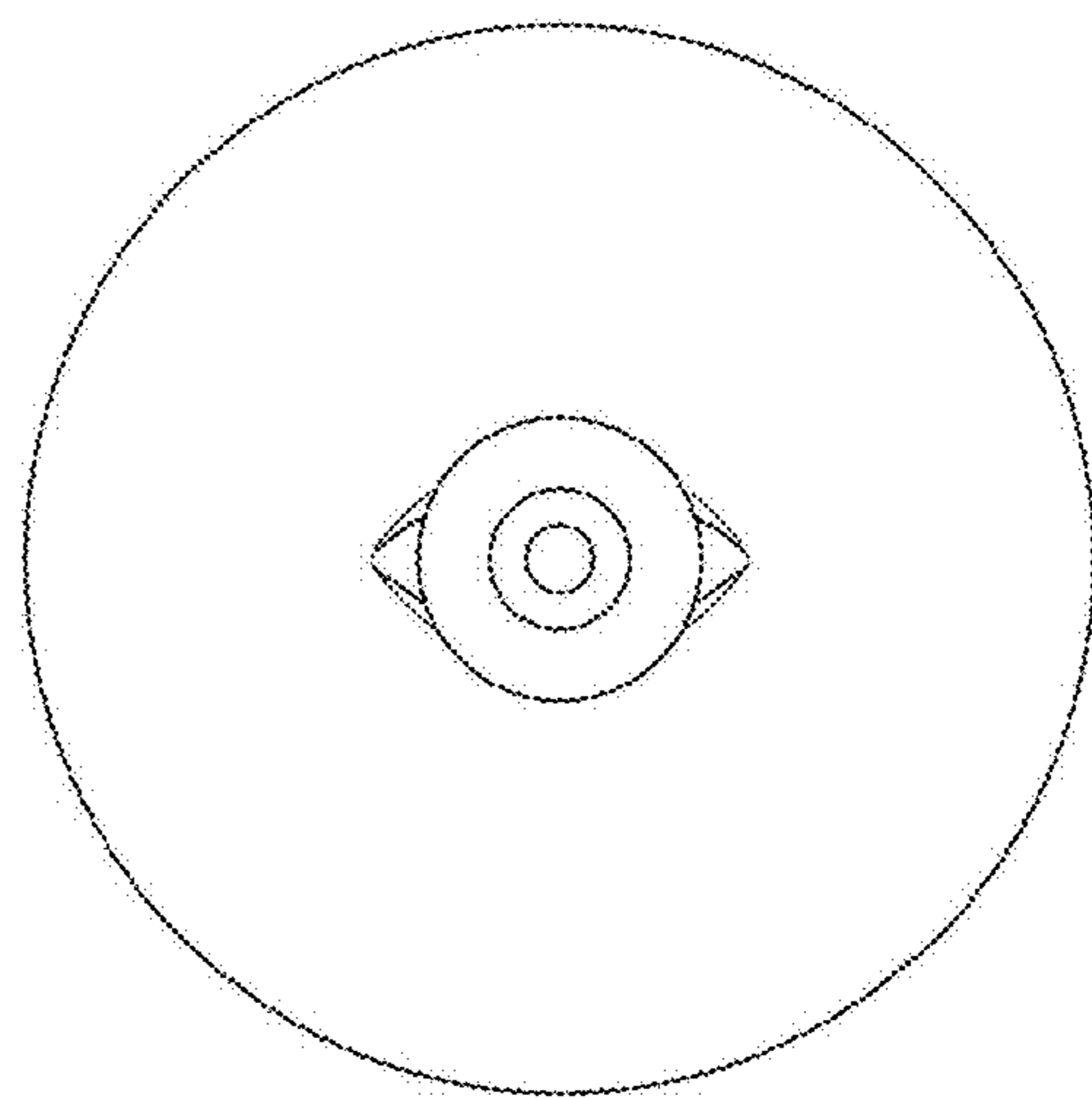
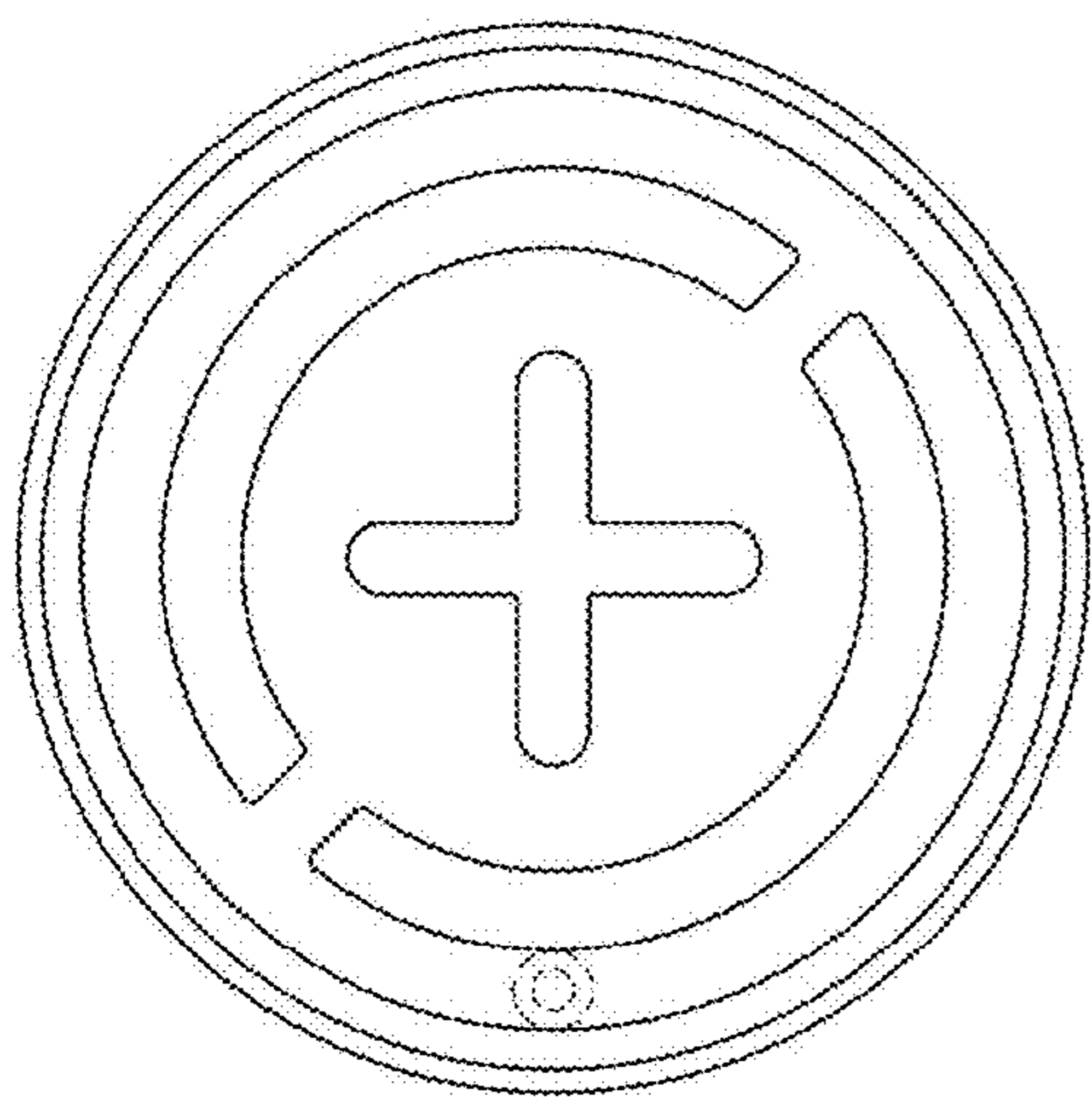
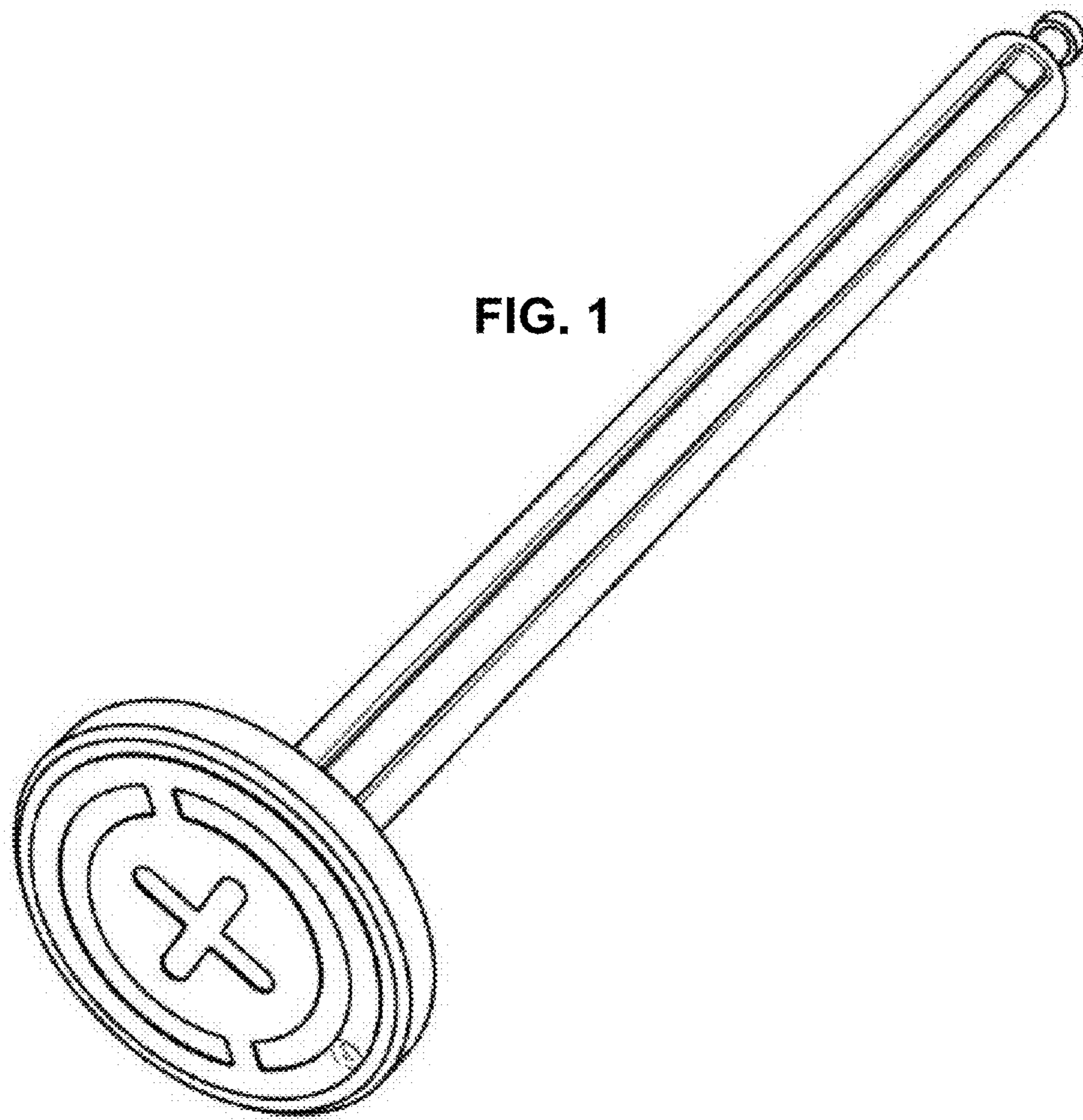
U.S. PATENT DOCUMENTS

11,229,430 B2 \* 1/2022 Souls ..... A61B 17/3417

OTHER PUBLICATIONS

Star 2I-Y9636 Plunger Rod, Star, [Post date unknown], [Site seen Aug. 3, 2022], Seen at URL: [https://www.partstown.com/star/sta2i-y9636?gclid=EA1a1QobChMliKrqw6Sm-QIVNciUCR3VtQQeEAQYByABEgLAGvD\\_BwE&gclid=aw.ds](https://www.partstown.com/star/sta2i-y9636?gclid=EA1a1QobChMliKrqw6Sm-QIVNciUCR3VtQQeEAQYByABEgLAGvD_BwE&gclid=aw.ds) (Year: 2022).\*

\* cited by examiner



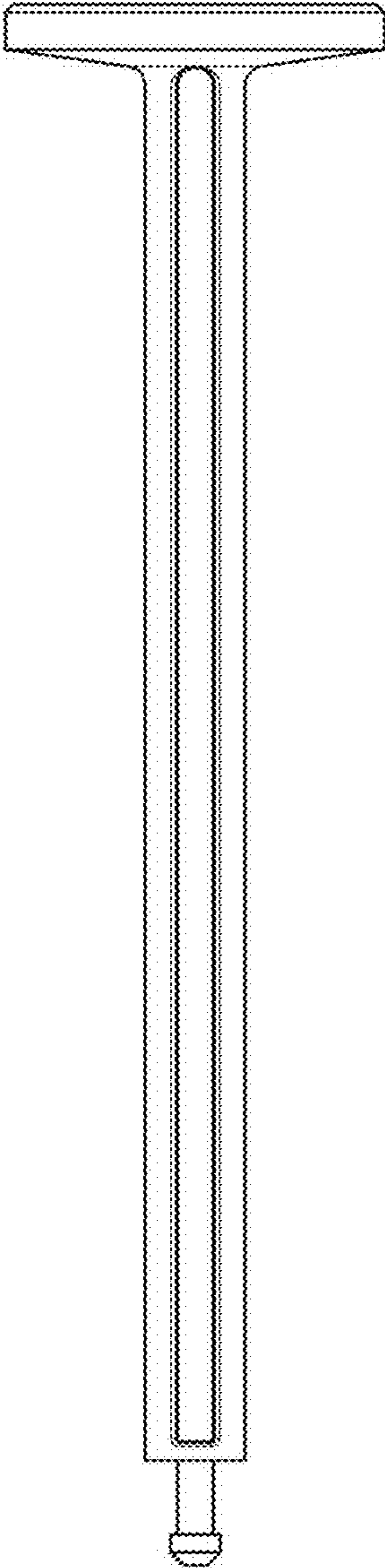


FIG. 4

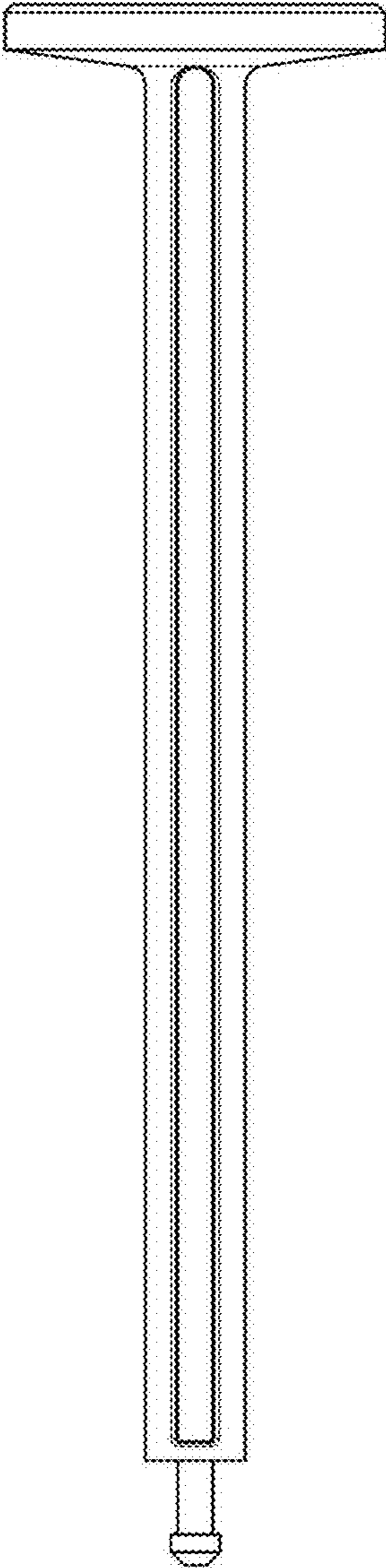


FIG. 5

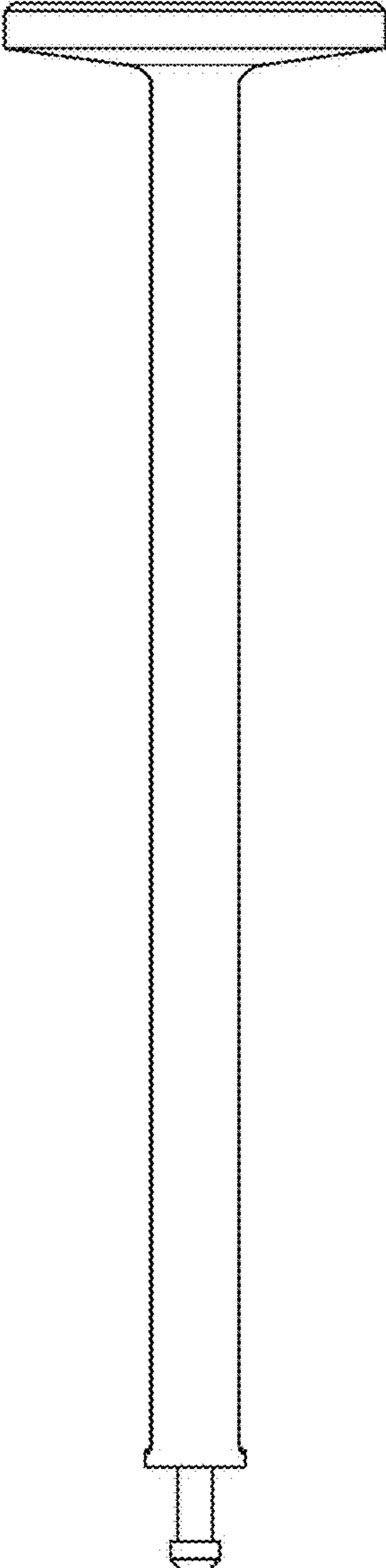


FIG. 6

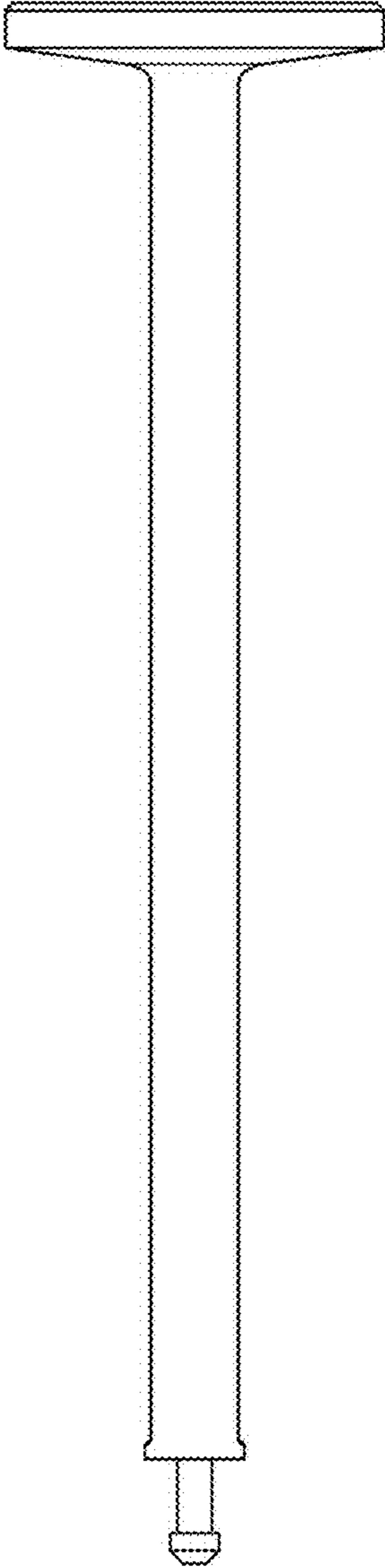


FIG. 7