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(12) **United States Design Patent** (10) **Patent No.:** **US D882,083 S**  
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(54) **ULTRASONIC CUTTER HEAD**  
(71) Applicant: **BEIJING SMTP TECHNOLOGY CO., LTD.**, Beijing (CN)  
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(\*\*) Term: **15 Years**  
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(51) **LOC (12) Cl.** ..... **24-02**  
(52) **U.S. Cl.**  
USPC ..... **D24/146**  
(58) **Field of Classification Search**  
USPC ..... D24/108, 133, 150, 152, 155, 176, 210, D24/231, 216, 232, 185, 186, 104, D24/112-114, 117-119, 127, 141, 144, D24/146, 147, 148, 188, 207, 200, 209, D24/215, 171; D15/21, 22, 23, 24, 25, D15/26, 27, 28, 29, 138, 139, 140; D8/70, 95, 96, 98; D25/126; D28/7, 9, D28/20  
CPC ..... B23B 51/02; B23B 51/08; B23B 51/10; B23B 51/00; B23B 2251/50; B23B 2251/18; B23B 2251/46; B23B 2222/28; B23B 2240/08; Y10S 408/713; Y10T 407/26; Y10T 408/9097; Y10T 408/899; Y10T 408/90; A61C 3/02; A61C 8/0089; A61C 1/07; A61B 17/3213; A61B 17/3417; A61B 17/14; A61B 17/142; A61B 17/320016; A61B 17/32002; A61B 17/3211; A61B 2017/00473; A61B 2017/320032; A61B 2017/32113; A61B 2017/32116; A61B 2017/3454; A61B 2018/1412; A61B 90/30; A61B 17/144; A61B 17/1615; A61B 17/162; A61B 17/1624; A61B 17/1633; A61B 17/1637;

A61B 17/1659; A61B 17/16; A61B 17/1604; A61B 2017/00261; A61B (Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D289,084 S \* 3/1987 Freitag ..... D24/144  
4,785,807 A \* 11/1988 Blanch ..... A61B 18/1402  
606/37

(Continued)

OTHER PUBLICATIONS

Swedish Bone Chisel Orthopedic Swedish Chisel [https://www.alibaba.com/product-detail/Swedish-Bone-Chisel-Orthopedic-Swedish-chisel\\_50031429969.html](https://www.alibaba.com/product-detail/Swedish-Bone-Chisel-Orthopedic-Swedish-chisel_50031429969.html) Date Unknown.\*

(Continued)

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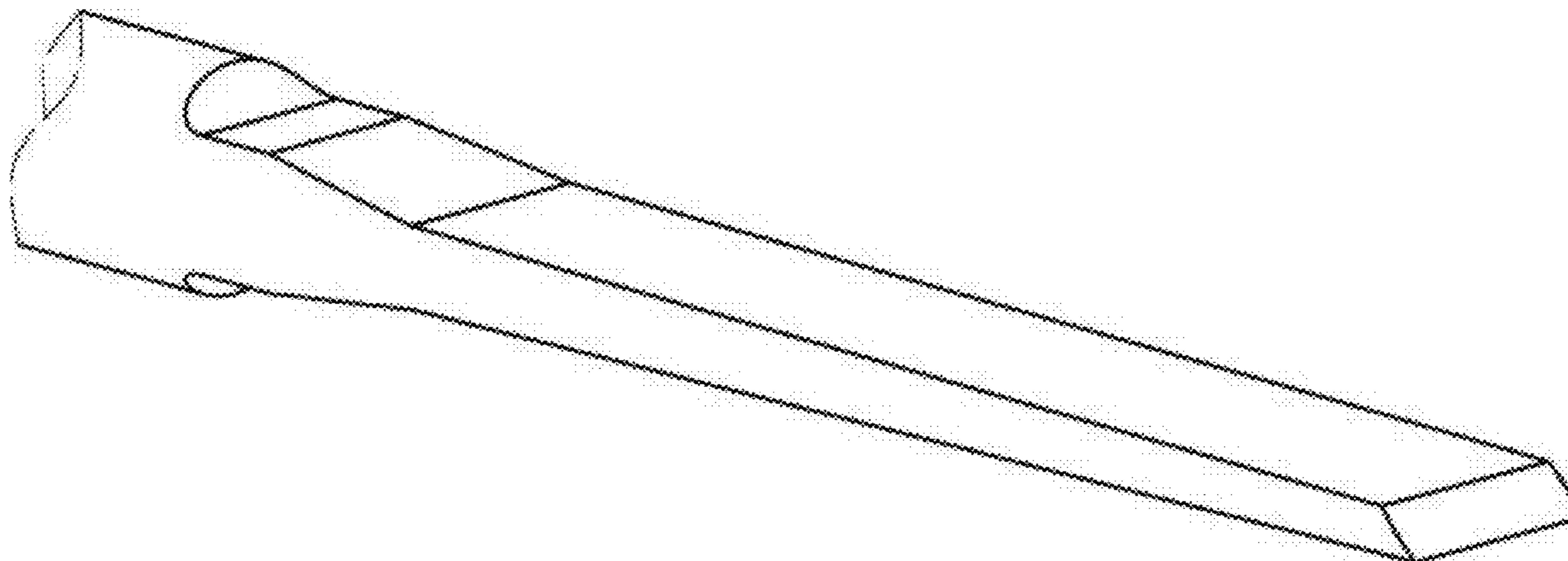
(57) **CLAIM**

The ornamental design for an ultrasonic cutter head, as shown and described.

**DESCRIPTION**

FIG. 1 is a top, front, and left side perspective view of an ultrasonic cutter head, showing our new design; FIG. 2 is a top plan view thereof; FIG. 3 is a left side view thereof; FIG. 4 is a right side view thereof; FIG. 5 is a bottom plan view thereof; FIG. 6 is a front elevational view thereof; FIG. 7 is a rear elevational view thereof; and, FIG. 8 is a full view thereof. The broken lines shown in FIGS. 1-5 and FIGS. 7-8 atop the cylinder illustrate boundaries of the ultrasonic cutter head. The additional broken lines shown in FIG. 8 illustrate environment and form no part of the claimed design.

**1 Claim, 3 Drawing Sheets**



(58) **Field of Classification Search**

CPC ..... 2017/320075; A61B 2017/32007; A61B  
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B23D 61/006; B23D 61/121; B23P 15/32;  
B27B 19/006

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D342,313 S \* 12/1993 Hood ..... D24/133  
6,511,479 B2 \* 1/2003 Gentelia ..... A61B 18/1402  
606/39  
7,147,634 B2 \* 12/2006 Nesbitt ..... A61B 18/1402  
606/45  
D604,129 S \* 11/2009 Gonnerman ..... D8/21  
D624,184 S \* 9/2010 Baynham ..... D24/146  
D669,581 S \* 10/2012 Van Wyk ..... D24/144  
D782,043 S \* 3/2017 Fink ..... D24/146  
D808,750 S \* 1/2018 Gonnerman ..... D8/21  
2019/0143492 A1 \* 5/2019 Ljucovic ..... B25B 23/0035  
81/119  
2019/0159864 A1 \* 5/2019 Hyun ..... A61C 1/084  
2019/0350626 A1 \* 11/2019 McCormack ..... A61B 17/1671

OTHER PUBLICATIONS

Bone Chisels and Gouges and Osteotomes [http://aroma.com.pk/  
product/Bone-Chisels-and-Gouges-and-Osteotomes/692](http://aroma.com.pk/product/Bone-Chisels-and-Gouges-and-Osteotomes/692) Date  
Unknown.\*

\* cited by examiner

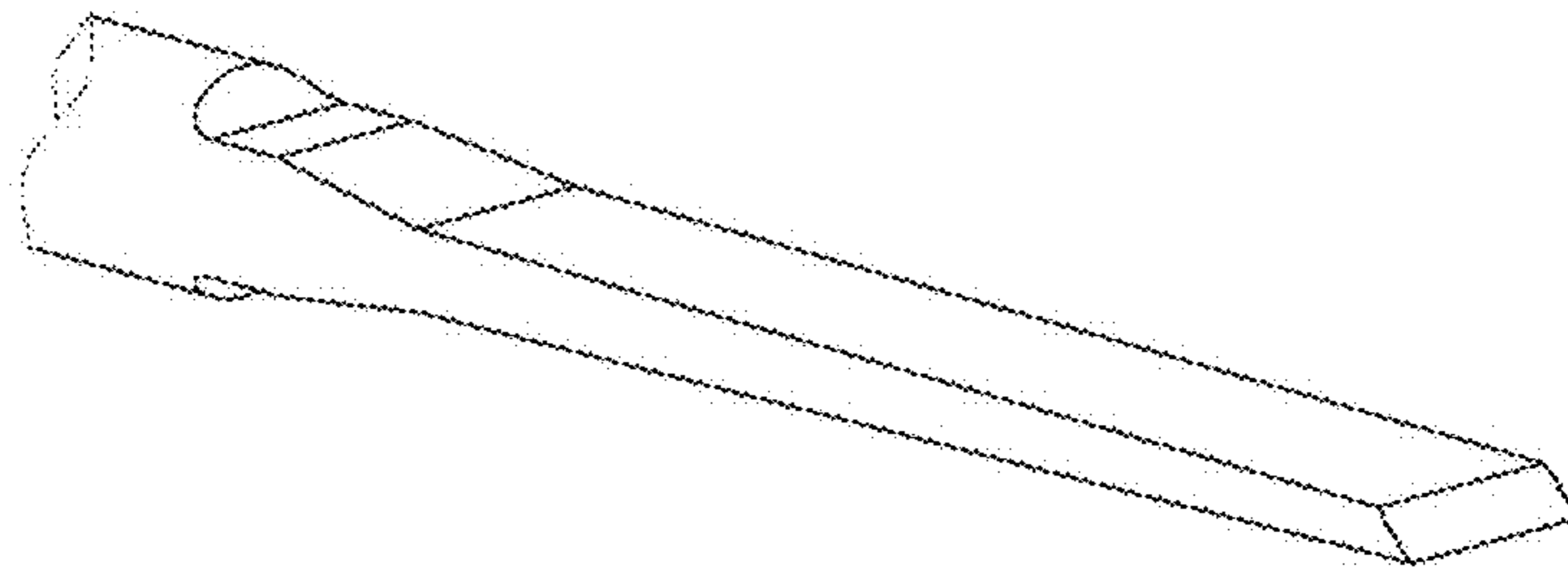


Fig.1



Fig.2

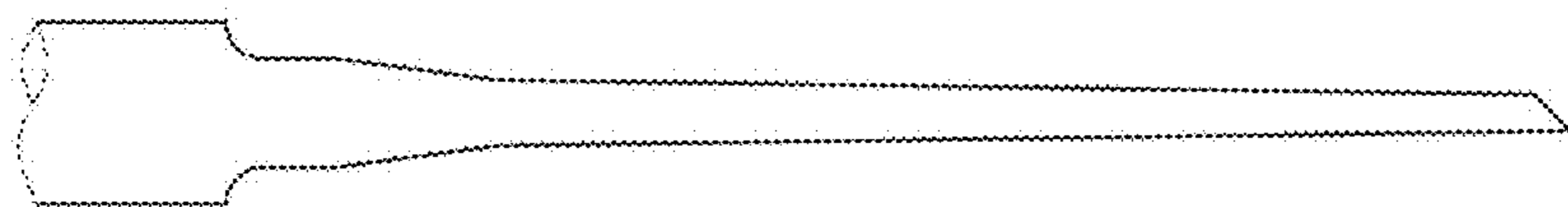


Fig.3

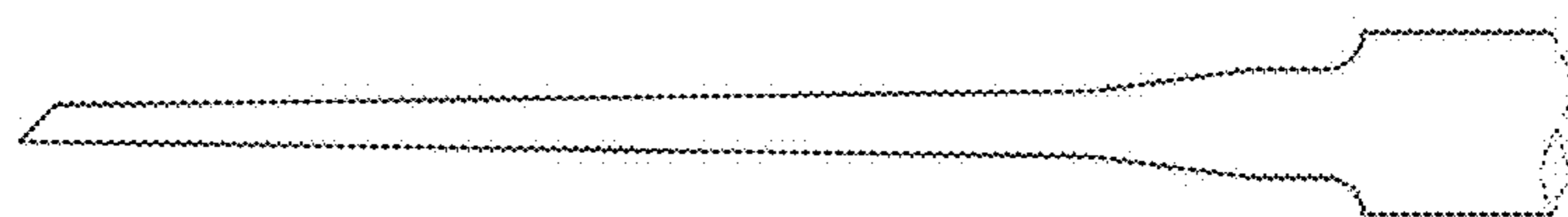


Fig.4

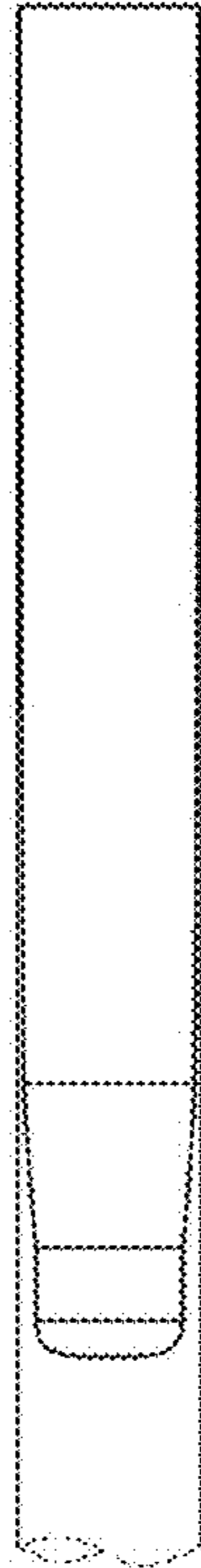


Fig.5

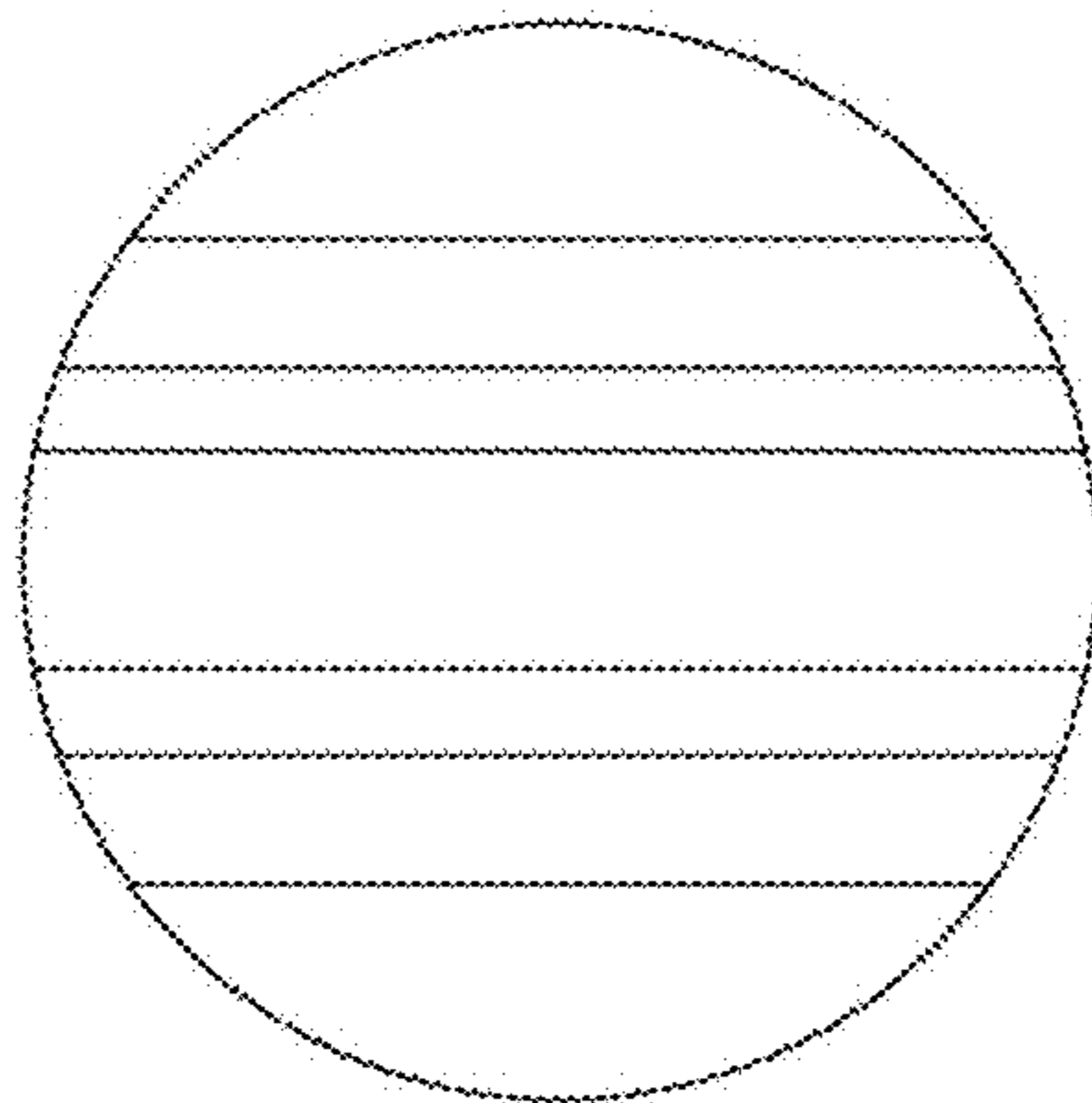


Fig.6

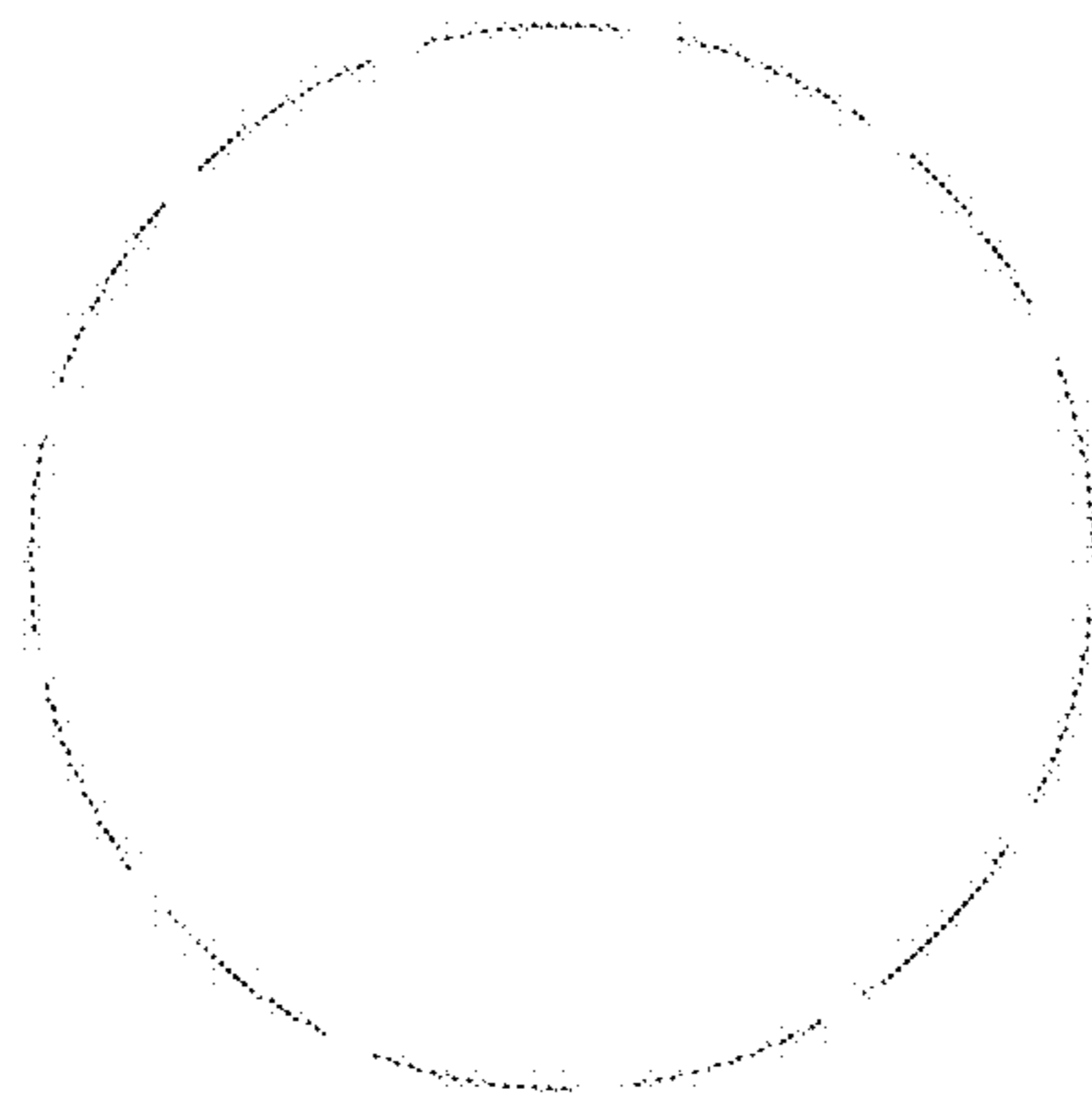


Fig.7

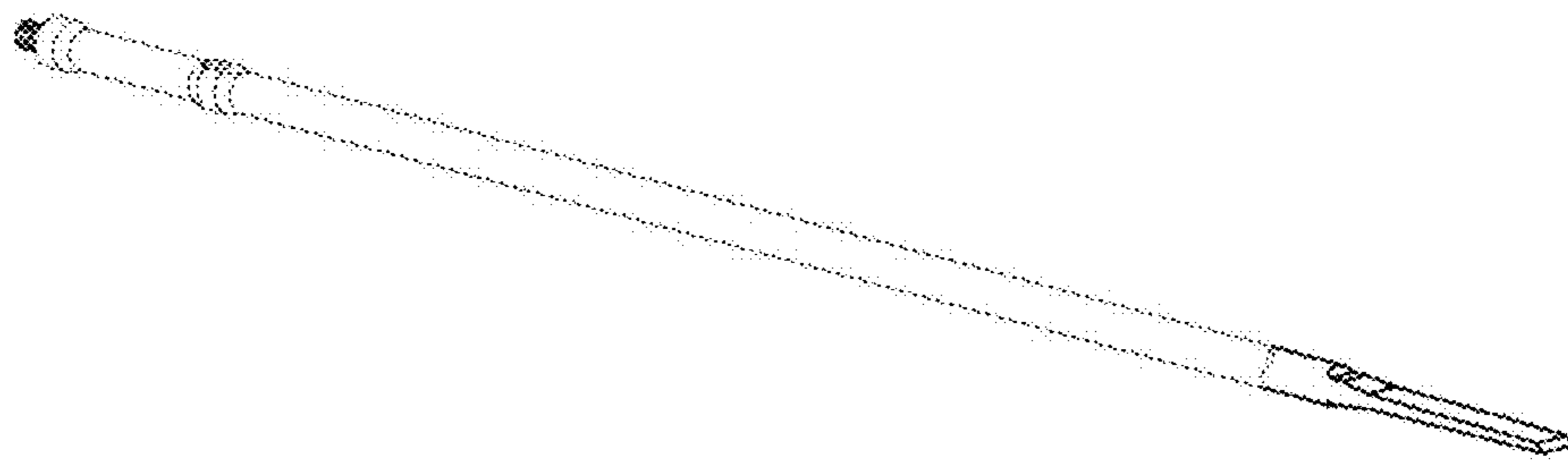


Fig.8