

US00D936830S

(12) **United States Design Patent** (10) **Patent No.:** **US D936,830 S**
Lee et al. (45) **Date of Patent:** **** Nov. 23, 2021**

(54) **MEDICAL THREAD**

(71) Applicant: **Samyang Holdings Corporation**, Seoul (KR)

(72) Inventors: **Hosung Lee**, Seoul (KR); **Hwanseok Choi**, Seoul (KR)

(73) Assignee: **Samyang Holdings Corporation**, Seoul (KR)

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

(21) Appl. No.: **29/730,263**

(22) Filed: **Apr. 2, 2020**

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

(52) **U.S. Cl.**
USPC **D24/145**

(58) **Field of Classification Search**
USPC D24/133, 145; D8/388, 391; D11/222
CPC A61B 17/06166; A61B 17/0469; A61B 2017/0417; A61B 2017/0461; A61B 2017/00526; A61B 2017/06176; A61B 2017/06171
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D366,113 S *	1/1996	Morgan	.....	D11/222
6,730,112 B2 *	5/2004	Levinson	.....	A61B 17/0057
				606/228
D780,918 S *	3/2017	Perkins	.....	D24/145
10,188,379 B2 *	1/2019	Lindh, Sr.	.....	A61B 17/06166
10,336,001 B2 *	7/2019	Perkins	.....	A61B 17/06166
2005/0228415 A1 *	10/2005	Gertner	.....	A61B 17/0469
				606/153
2010/0298871 A1 *	11/2010	Ruff	.....	A61B 17/06166
				606/222

OTHER PUBLICATIONS

Samyang Biopharm MONOFIX Knotless Wound Closure Device Video, YouTube, 18 pages, available Aug. 1, 2019, [online], [site

visited Apr. 2, 2020]. Available from internet: <URL: <https://www.youtube.com/watch?v=t1zAs8p0J3E>>.

“Samyang Biopharmaceuticals Corporation Develops Knotless Surgical ‘Barbed Suture’ for the First Time in Korea,” Samyang Biopharmaceuticals Corporation, 2 pages, published Oct. 25, 2019, [site visited Apr. 2, 2020]. Available from internet: <URL: <https://www.samyangbiophan.com/BP040/Popup/1488>>.

(Continued)

Primary Examiner — Wan Laymon

(74) *Attorney, Agent, or Firm* — Plumsea Law Group, LLC

(57) **CLAIM**

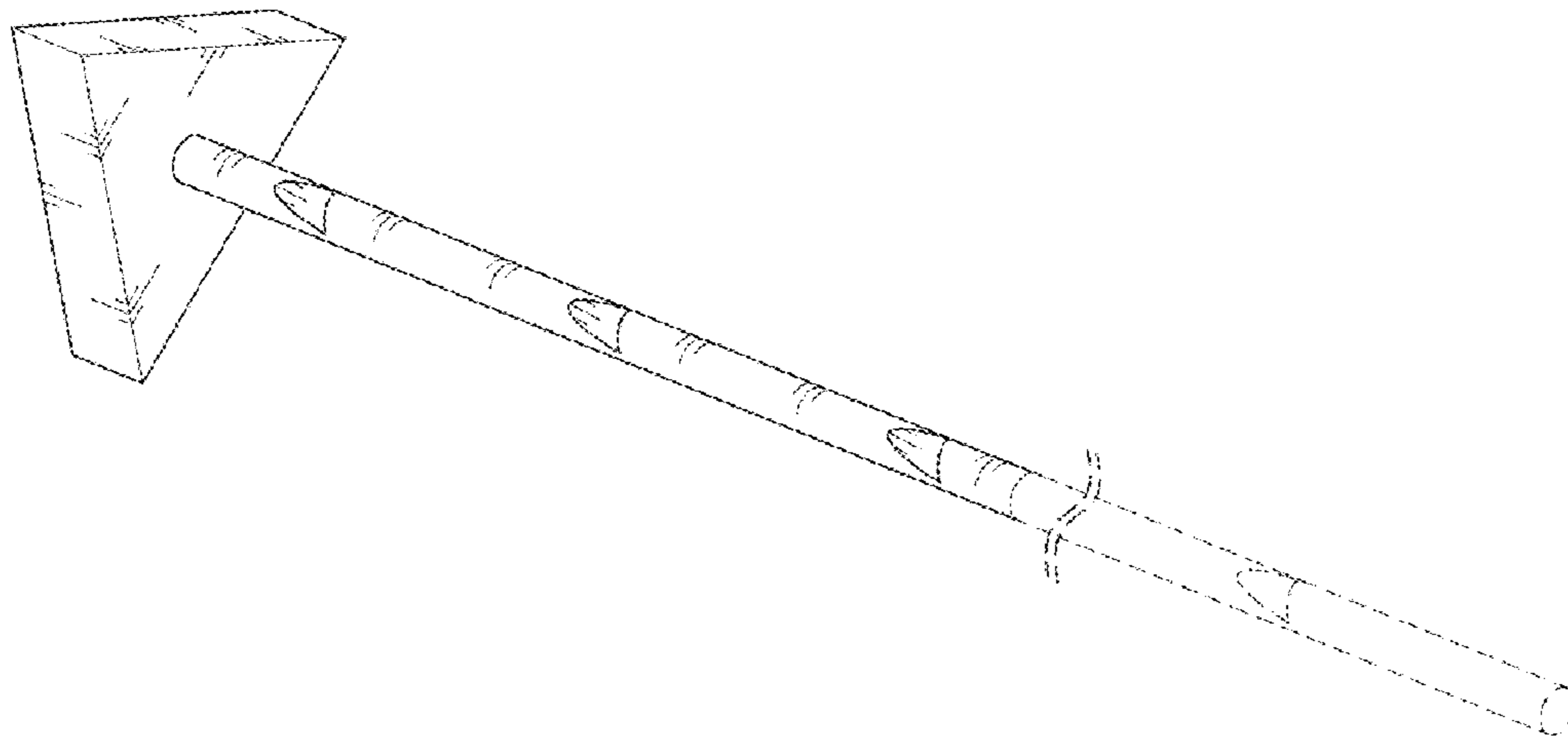
The ornamental design for a medical thread, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a medical thread showing the new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a rear elevational view thereof; FIG. 4 is a side elevational view thereof; FIG. 5 is an opposite side elevational view thereof; and, FIG. 6 is a top view thereof, the bottom view being a mirror image thereof.

The evenly spaced broken lines indicate portions of the medical thread that form no part of the claimed design. The dash-dot broken lines indicate boundaries and form no part of the claimed design. The portions of the medical thread shown broken away, using two parallel wavy lines, indicate indeterminate length and form no part of the claimed design. The shading is provided merely to represent contours of the design and does not connote the character of the surfaces such as any specific texture, material, gloss, translucence, transparency, surface treatment, or surface decoration.

1 Claim, 6 Drawing Sheets



(56)

References Cited

OTHER PUBLICATIONS

Kim, Jihye et al. "In Vivo Comparison of MONOFIX, A Novel Barbed Suture with a Triangular Stopper, with Pre-existing Products in a Porcine Model," *Journal of Minimally Invasive Gynecology*, vol. 27, No. 2, Feb. 2020, 16 pages, published online Apr. 5, 2019. Available from internet: <[https://www.jmig.org/article/S1553-4650\(19\)30154-2/pdf](https://www.jmig.org/article/S1553-4650(19)30154-2/pdf)>.

Korean Design Application No. 30-2019-0059141, filed Dec. 6, 2019.

* cited by examiner

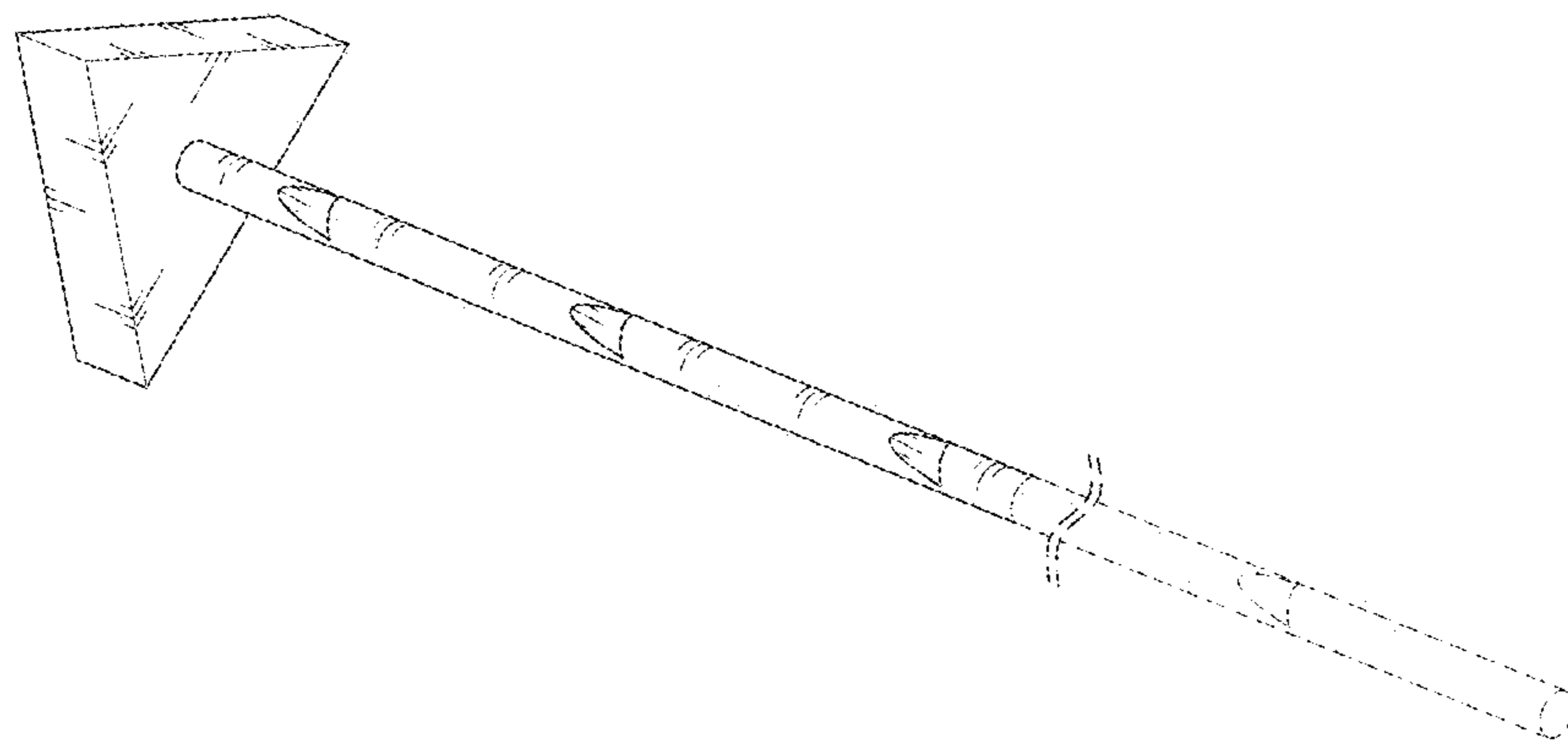


FIG. 1

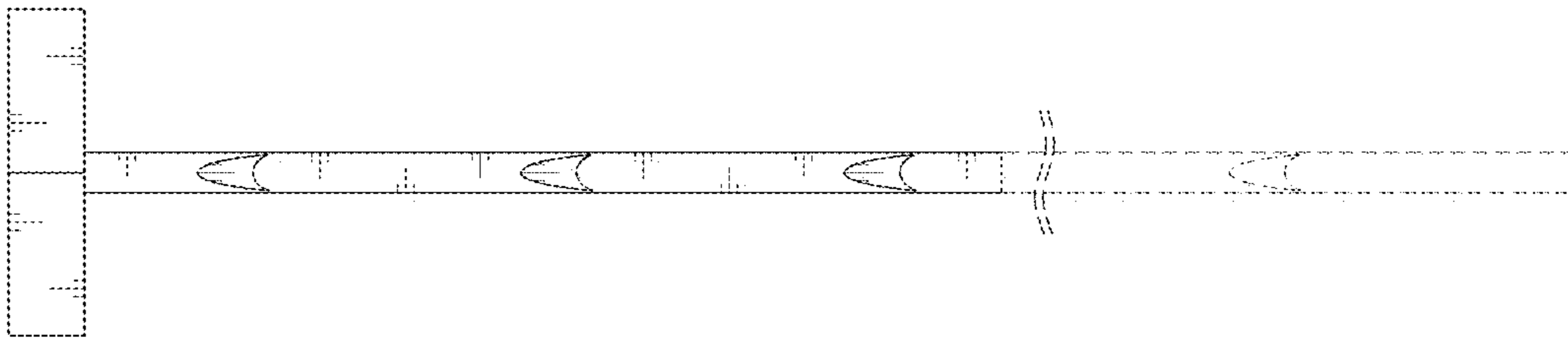


FIG. 2

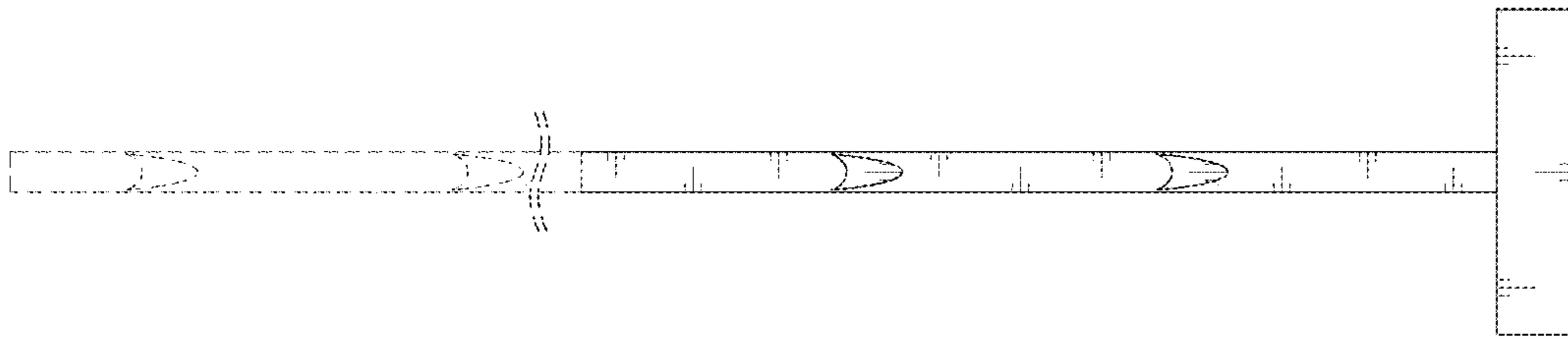


FIG. 3

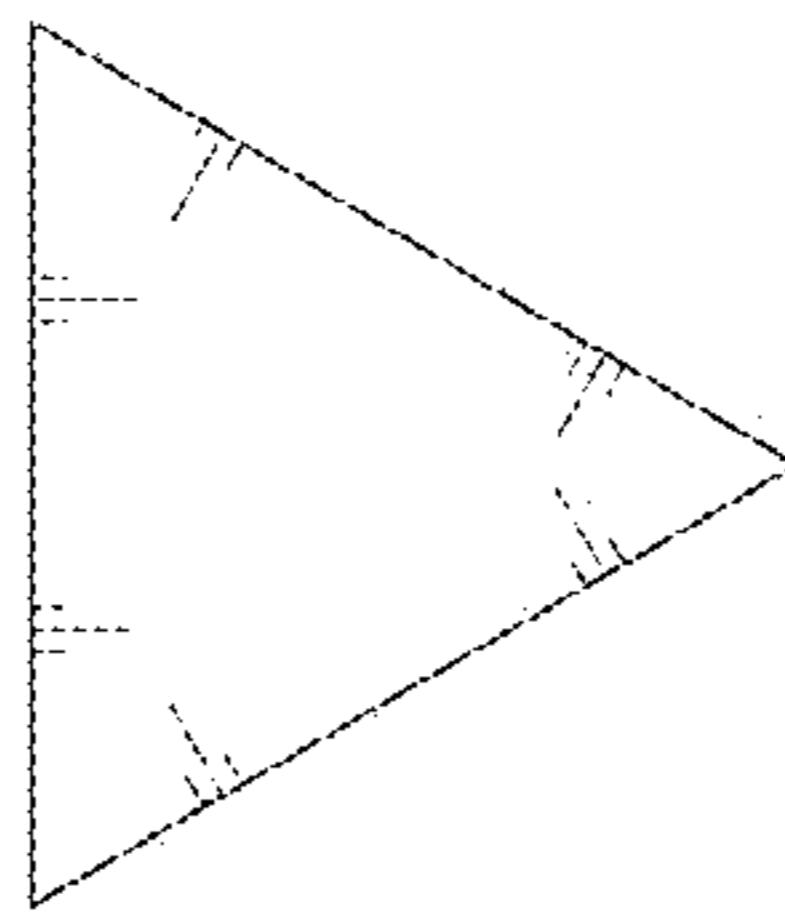


FIG. 4

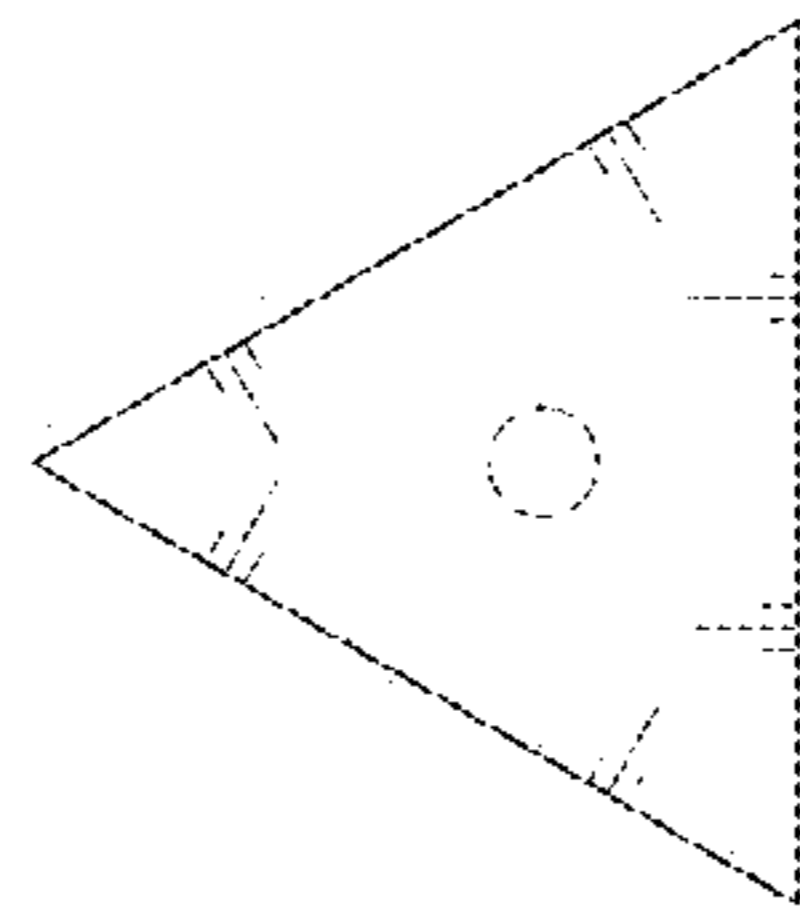


FIG. 5

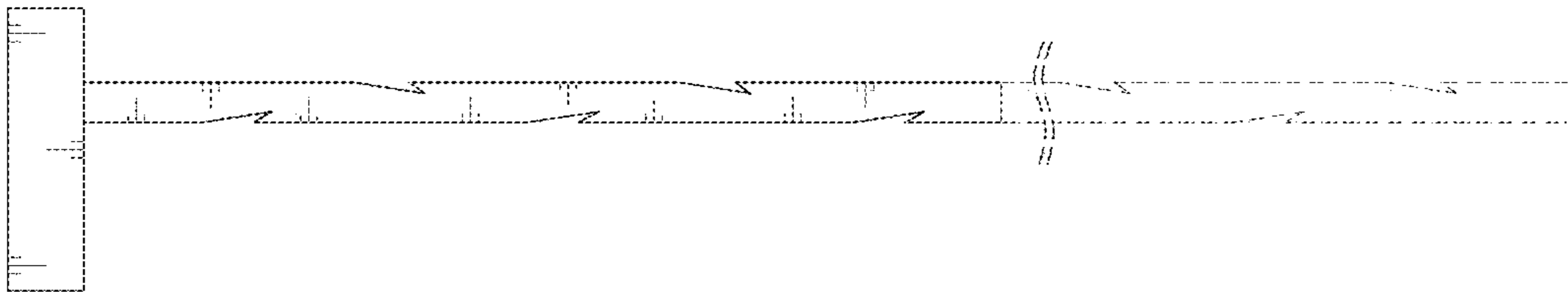


FIG. 6