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(12) United States Design Patent

Iwamoto

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(54) **PLUG CONNECTOR**

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(73) Assignee: **HOSIDEN CORPORATION**, Yao (JP)

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

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(22) Filed: **Dec. 15, 2023**

(30) **Foreign Application Priority Data**

Jun. 20, 2023 (JP) ..... 2023-012576 D

(51) **LOC (15) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/133**; D13/147

(58) **Field of Classification Search**
USPC D13/120, 133, 147, 154, 156, 199; D14/256, 462, 433; 439/607.58, 701
CPC H01R 13/64; H01R 13/518; H01R 13/627; G02B 6/00; G02B 6/32; G02B 6/36; G02B 6/38; G02B 6/40
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D324,028 S * 2/1992 Sueyoshi D13/133
D456,356 S * 4/2002 Togashi D13/133
D491,147 S * 6/2004 Ji D13/147
D800,067 S * 10/2017 Sasaki D13/133
(Continued)

OTHER PUBLICATIONS

High-Speed Fakra Mini, posted date unavailable, retrieved May 27, 2025 (online), https://www.molex.com/en-us/products/part-detail/2079118120 (Year: 2025).*

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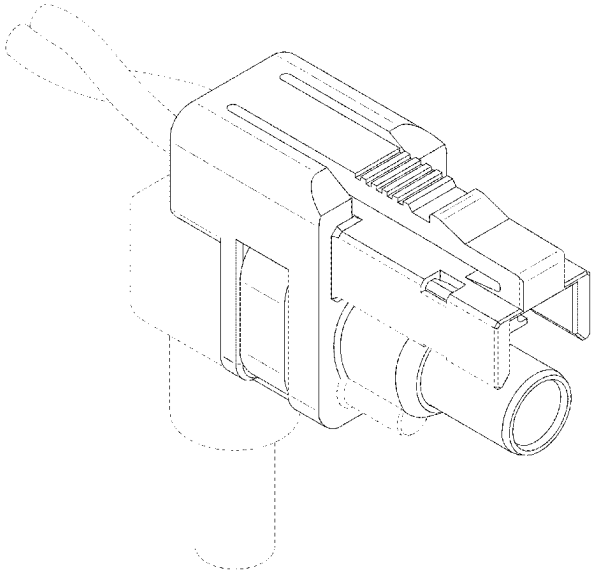
(57) **CLAIM**

The ornamental design for a plug connector, as shown and described.

DESCRIPTION

FIG. **1** is a front elevational view of a plug connector according to my design;
FIG. **2** is a back elevational view of the plug connector;
FIG. **3** is a top plan view of the plug connector;
FIG. **4** is a bottom plan view of the plug connector;
FIG. **5** is a right side elevational view of the plug connector;
FIG. **6** is a left side elevational view of the plug connector;
FIG. **7** is a top, front, and left side perspective view of the plug connector;
FIG. **8** is a bottom, front, and right side perspective view of the plug connector;
FIG. **9** is a cross-sectional view of the plug connector, with the internal structure partially omitted, taken along line **9-9** in FIG. **1**;
FIG. **10** is a cross-sectional view of the plug connector, with the internal structure partially omitted, taken along line **10-10** in FIG. **1**;
FIG. **11** is a cross-sectional view of the plug connector, with the internal structure partially omitted, taken along line **11-11** in FIG. **1**; and,
FIG. **12** is a cross-sectional view of the plug connector, with the internal structure partially omitted, taken along line **12-12** in FIG. **1**.
The dash-dash broken lines shown in the figures are for the purpose of illustrating portions of the environment and form no part of the claimed design.

1 Claim, 12 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

D800,661	S *	10/2017	Sasaki	D13/133
D801,933	S *	11/2017	Sasaki	D13/133
D817,880	S *	5/2018	Dobashi	D13/133
D852,137	S *	6/2019	Sasaki	D13/133
D854,500	S *	7/2019	Asano	D13/133
D913,971	S *	3/2021	Lis	D13/156
D1,065,199	S *	3/2025	Lin	D13/133
2015/0295361	A1*	10/2015	Miyoshi	H01R 13/508 439/607.58
2022/0102918	A1*	3/2022	Kobayashi	H01R 13/6581
2023/0208070	A1*	6/2023	Isoda	H01R 24/50 439/701
2025/0079767	A1*	3/2025	Iwamoto	H01R 13/64

* cited by examiner

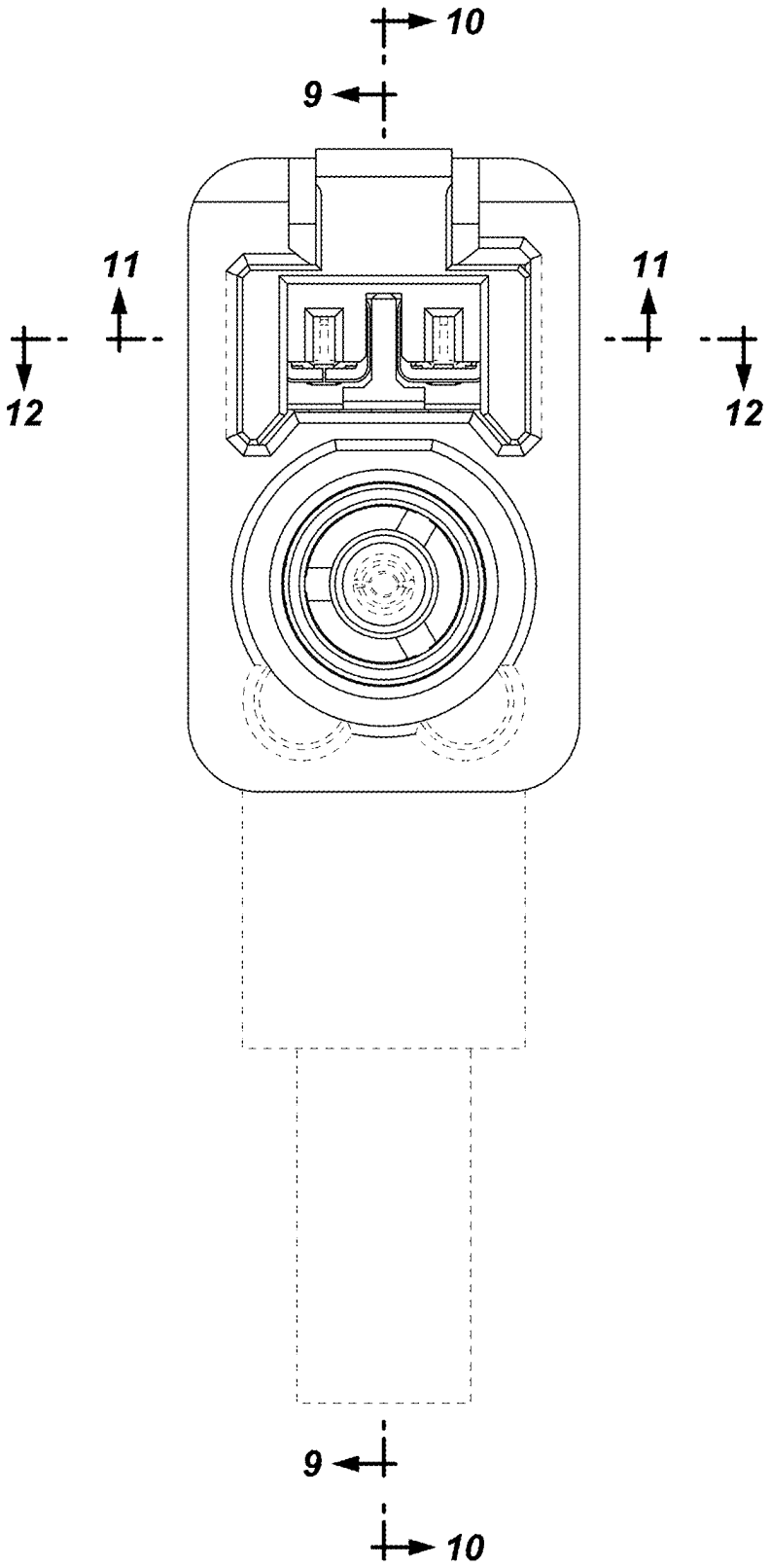


FIG. 1

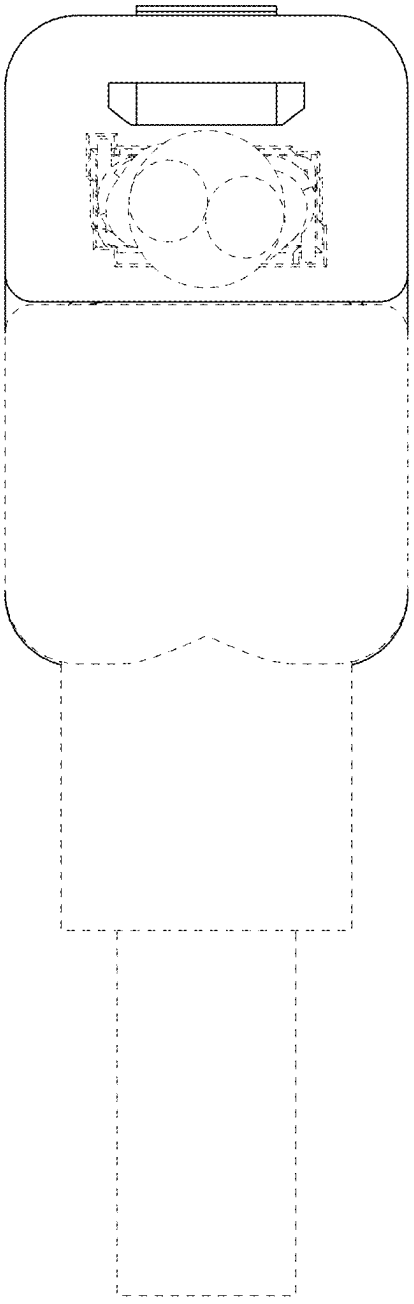


FIG. 2

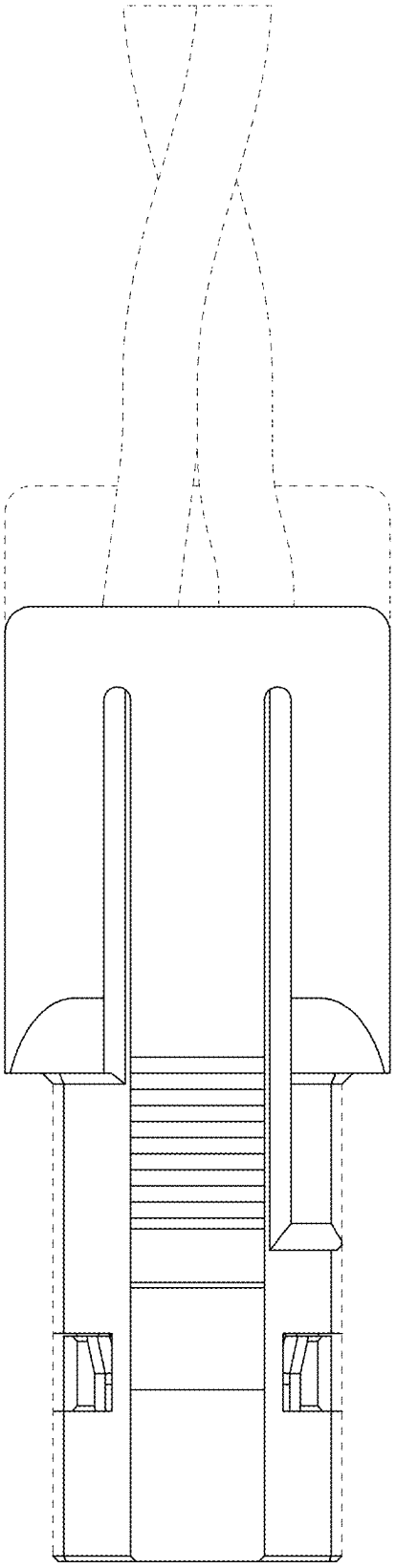


FIG. 3

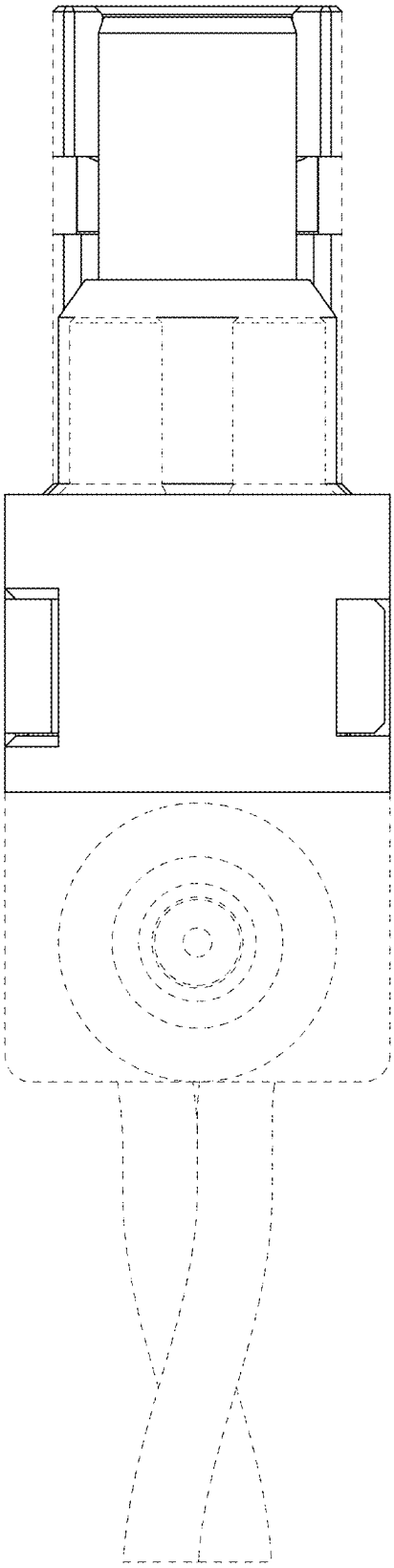


FIG. 4

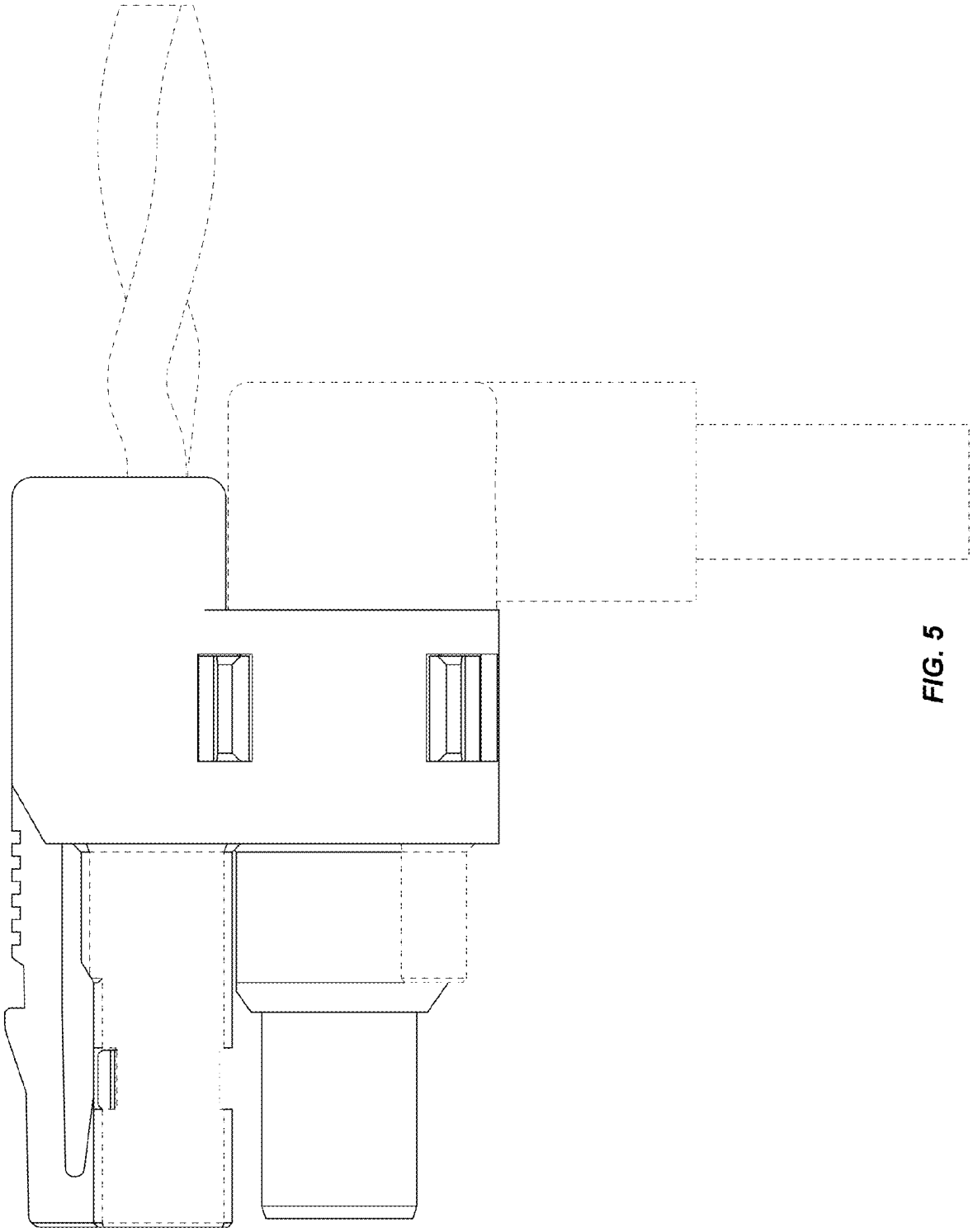


FIG. 5

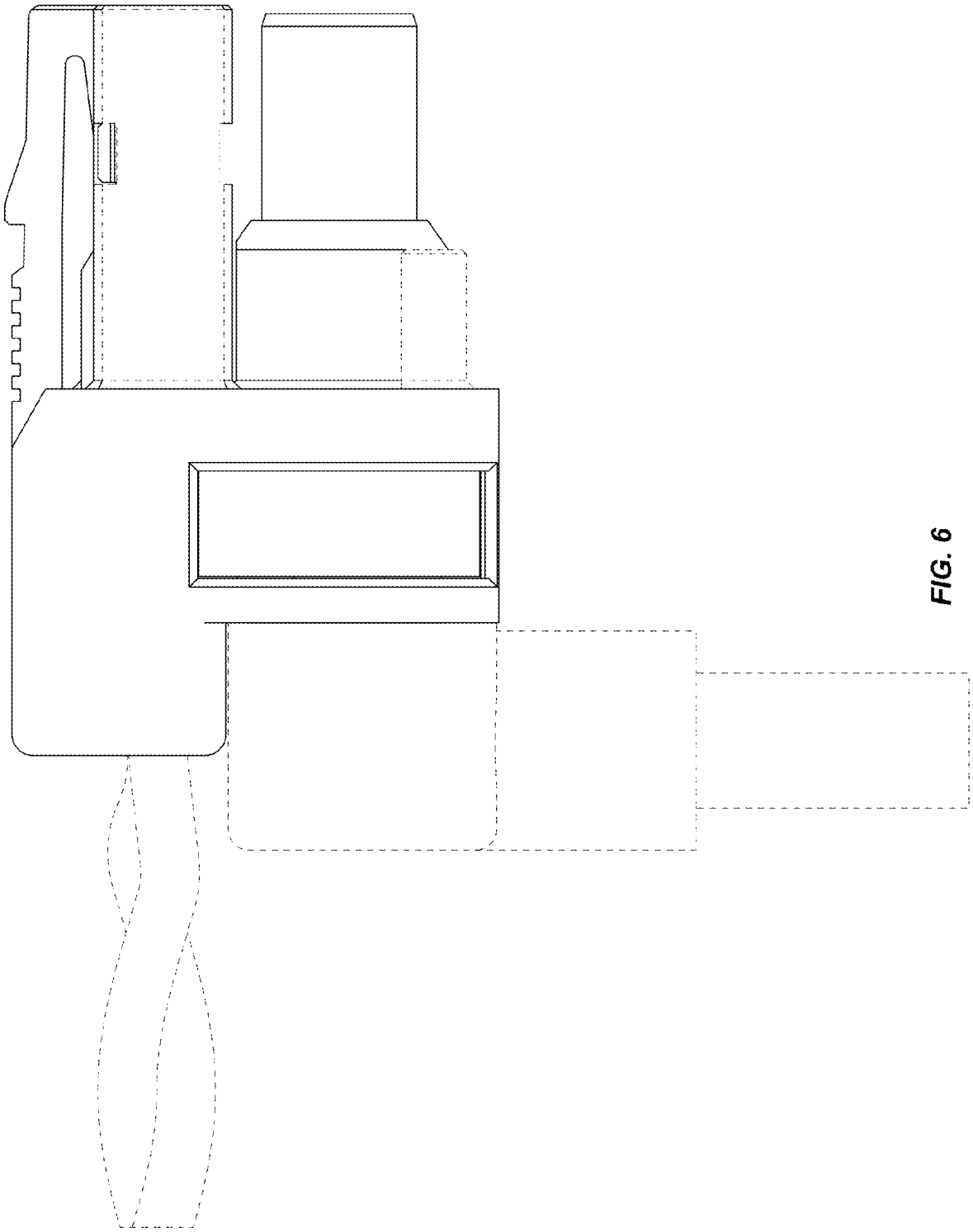
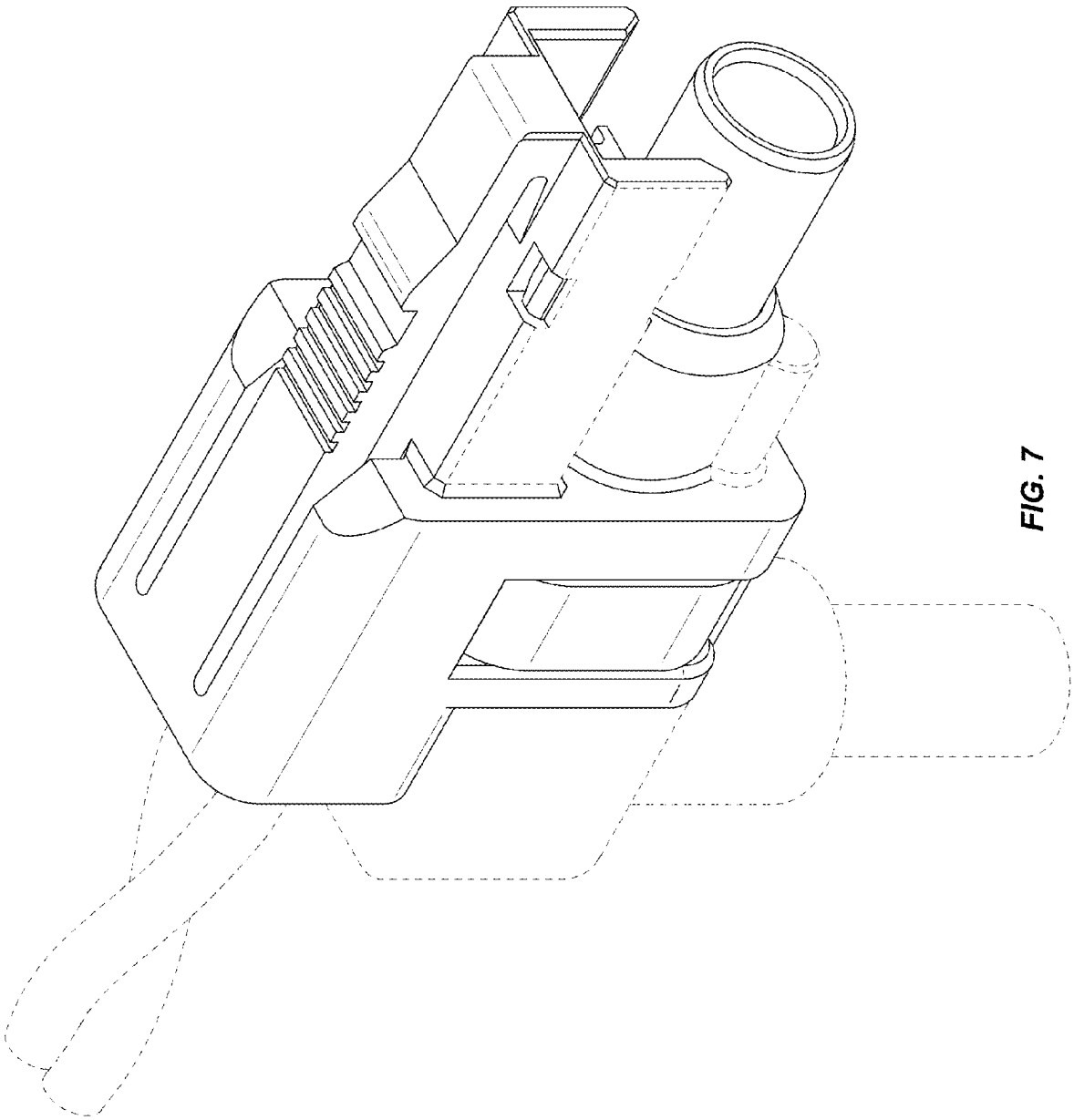


FIG. 6



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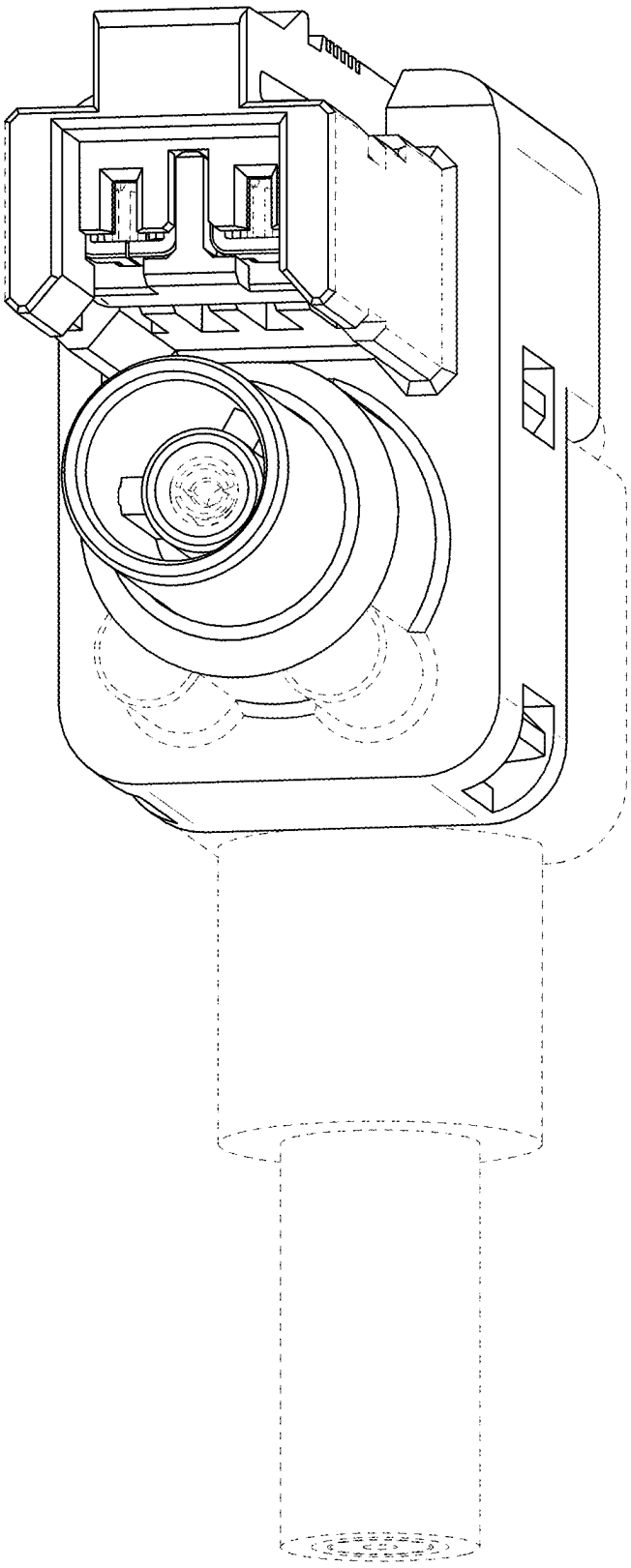

FIG. 8

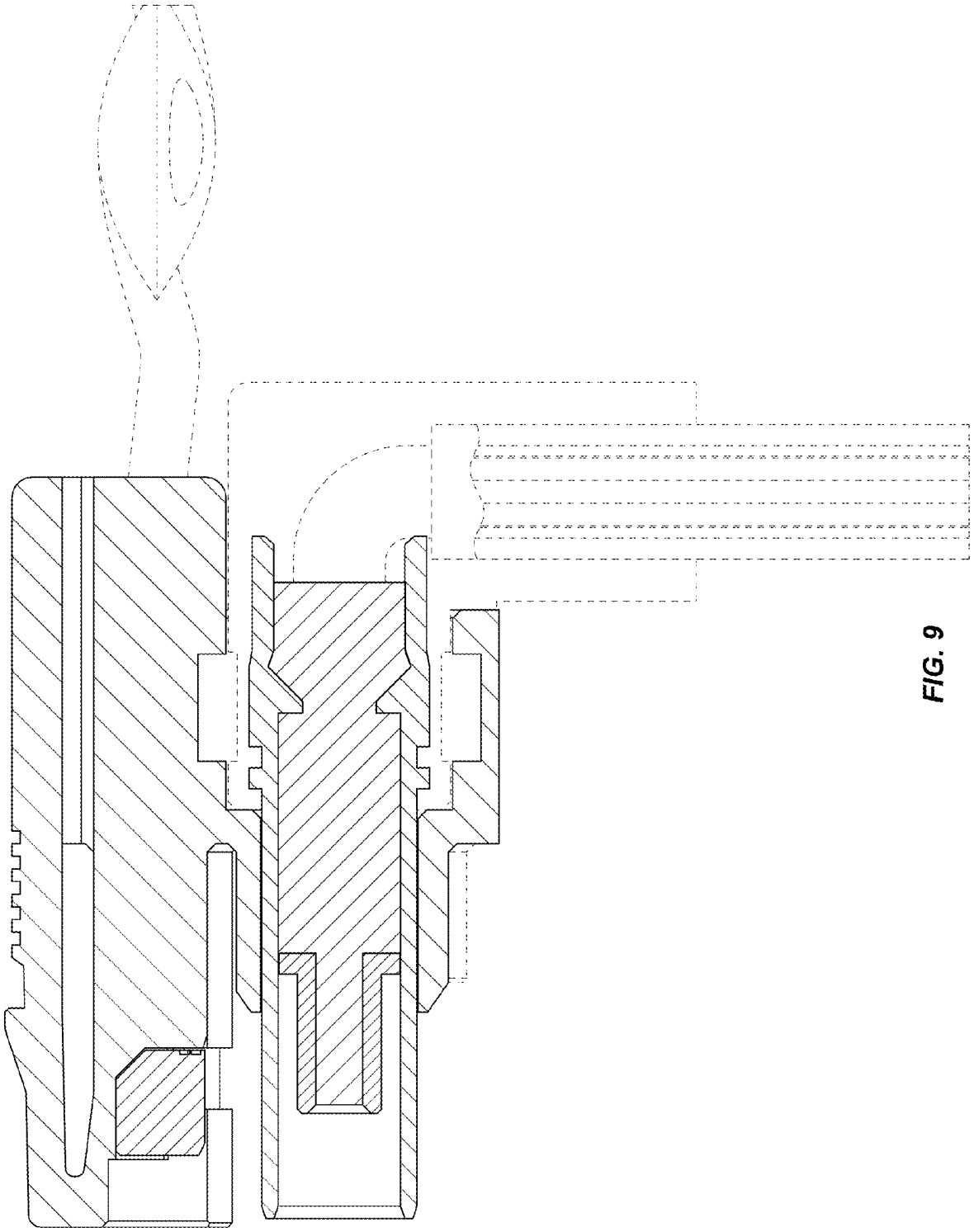

FIG. 9

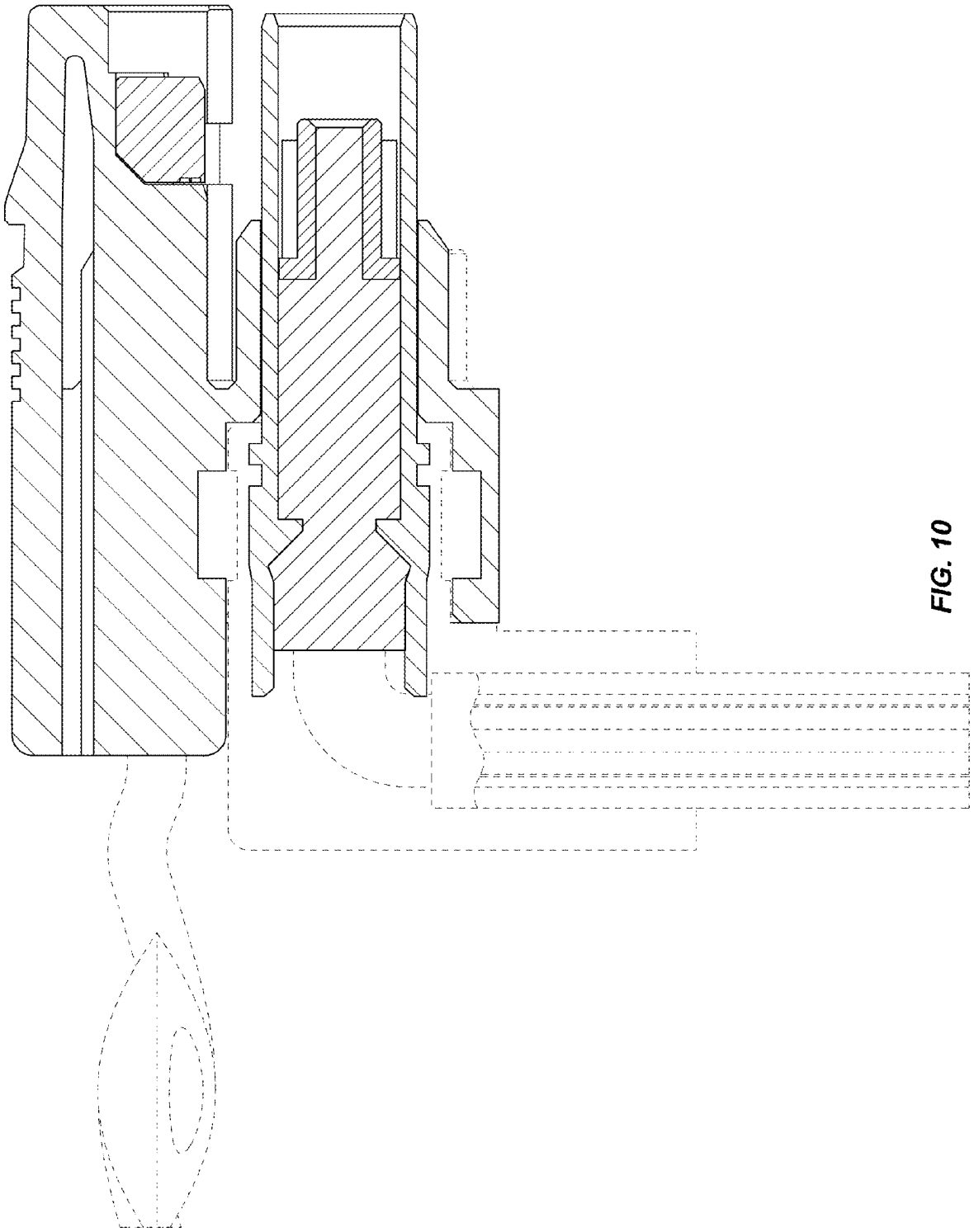

FIG. 10

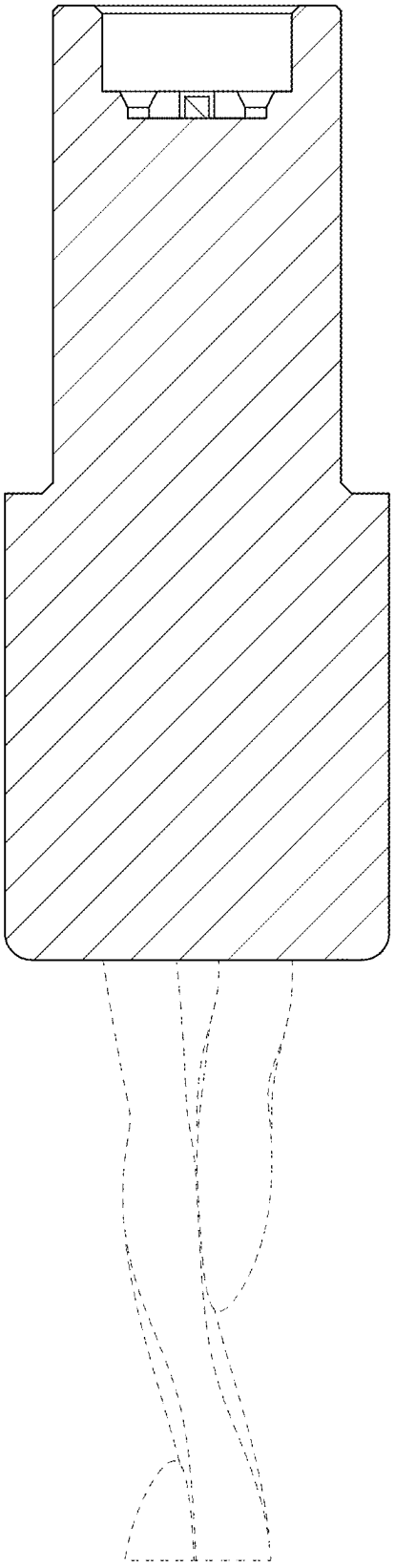

FIG. 11

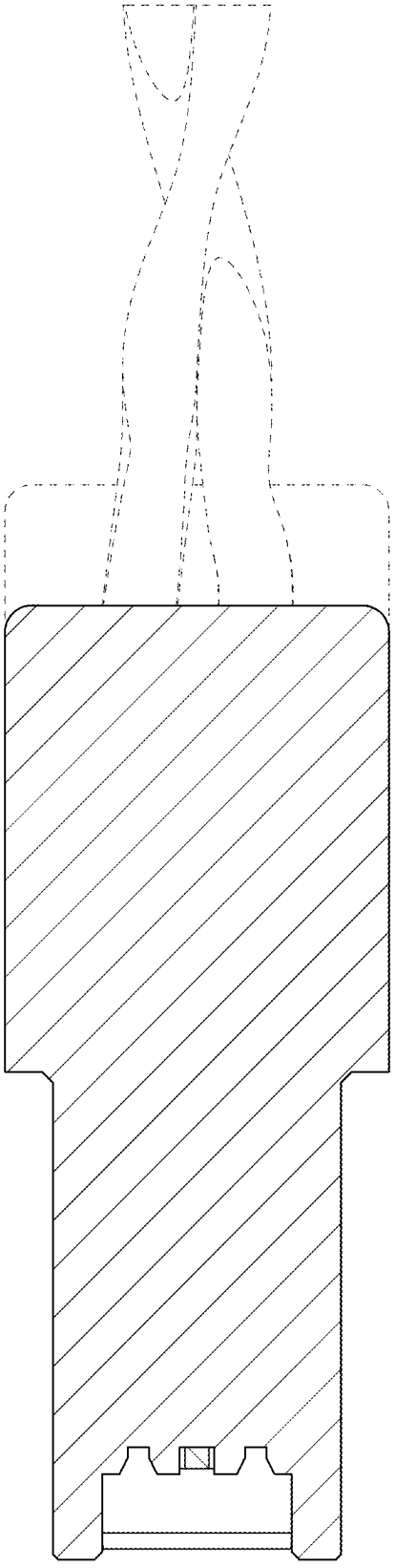

FIG. 12