



(12) **United States Design Patent**
Wan et al.

(10) **Patent No.:** **US D1,013,293 S**
(45) **Date of Patent:** **** Jan. 30, 2024**

- (54) **GRINDING HEAD FOR NAILS**
- (71) Applicants: **Longhui Wan**, Guangdong (CN);
Huang Lei, Huaihua (CN)
- (72) Inventors: **Longhui Wan**, Guangdong (CN);
Huang Lei, Huaihua (CN)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/885,325**
- (22) Filed: **Feb. 23, 2023**
- (51) **LOC (14) Cl.** **30-99**
- (52) **U.S. Cl.**
USPC **D30/158**; D30/199; D28/62; D28/58;
D8/62; D8/70
- (58) **Field of Classification Search**
USPC D30/158, 199; 119/600, 468, 607–611,
119/627, 633, 663, 601; D28/59, 36, 58,
D28/44, 49, 50, 53, 85, 44.1, 51, 63;
D8/61, 62, 82, DIG. 7; D24/147, 146,
D24/214, 215, 200, 111, 133, 144, 156,
D24/186; D4/100–102, 137, 119, 120,
D4/199, 127, 121, 114, 115, 138;
132/73.6, 75.8, 76.4, 73.5, 75.3, 75.6,
132/76.5, 118, 119.1, 75.4, 75.5, 75;
30/26, 29.5, 43, 43.4–43.6, 41.5, 206,
30/133, 276, 29, 277.4, 240, 210, 43.92,
30/392, 167, 329, 169; 15/23, 28, 22.1,
15/101, 65, 104.04, 88, 104.095, 97.1,
15/179; 451/356, 162–164; 452/98;
81/3.42, 177.7, 57.26, 57.11, 58.3;
606/85, 131; 83/698.11, 520; 362/120;
206/368; 392/380, 384; 173/29, 217,
173/216; 310/50; 464/53; 601/70;
D15/132, 126; 433/133, 130, 125, 127,
433/166, 126, 132; 279/51, 147;
D26/49, 37; D9/723, 529, 530, 548

CPC A01K 13/00; A01K 13/001; A01K 17/00;
A45D 29/05; A45D 29/06; A45D 29/11;
A45D 29/14; A45D 29/00; B24B 23/005;
B24B 23/02; B25F 3/00
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 3,311,117 A * 3/1967 Thompson A45D 29/05
132/73.6
- D326,988 S * 6/1992 Beton D8/70
- 6,439,219 B1 * 8/2002 Pareti B24D 7/06
451/259
- 6,477,924 B1 * 11/2002 Talbot B25B 13/48
81/176.15
- D525,634 S * 7/2006 Kotala D15/138
- D544,007 S * 6/2007 Marasco D15/140
- D563,186 S * 3/2008 Ahn D8/70
- D630,656 S * 1/2011 Lambert D15/139
- D633,769 S * 3/2011 Evatt D8/70
- D646,542 S * 10/2011 Wackwitz D8/70
- D719,591 S * 12/2014 Kurusu D15/138

(Continued)

Primary Examiner — Susan Moon Lee
(74) *Attorney, Agent, or Firm* — Kunzler Bean &
Adamson, PC; Michael Bartholomew

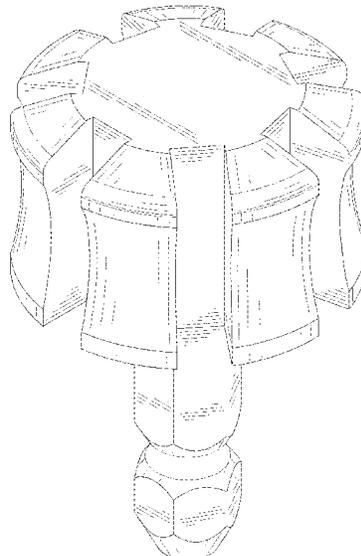
(57) **CLAIM**

The ornamental design for a grinding head for nails, as shown and described.

DESCRIPTION

FIG. 1 is a front, left and top perspective view of a grinding head for nails, showing our design.
FIG. 2 is a rear, right and bottom perspective view thereof.
FIG. 3 is a front elevation view thereof.
FIG. 4 is a rear elevation view thereof.
FIG. 5 is a left side elevation view thereof.
FIG. 6 is a right side elevation view thereof.
FIG. 7 is a top plan view thereof; and,
FIG. 8 is a bottom plan view thereof.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D779,732 S 2/2017 Nguyen
10,702,927 B2 * 7/2020 Kaye, Jr. B23D 61/006
D900,893 S * 11/2020 English D15/139
D924,030 S * 7/2021 Kaye, Jr. D8/20
D961,859 S 8/2022 Tu
D984,812 S * 5/2023 Hagiwara D4/199
2013/0337726 A1 * 12/2013 Hackman B24B 19/009
451/48
2022/0071171 A1 * 3/2022 Johnson A01K 13/00

* cited by examiner

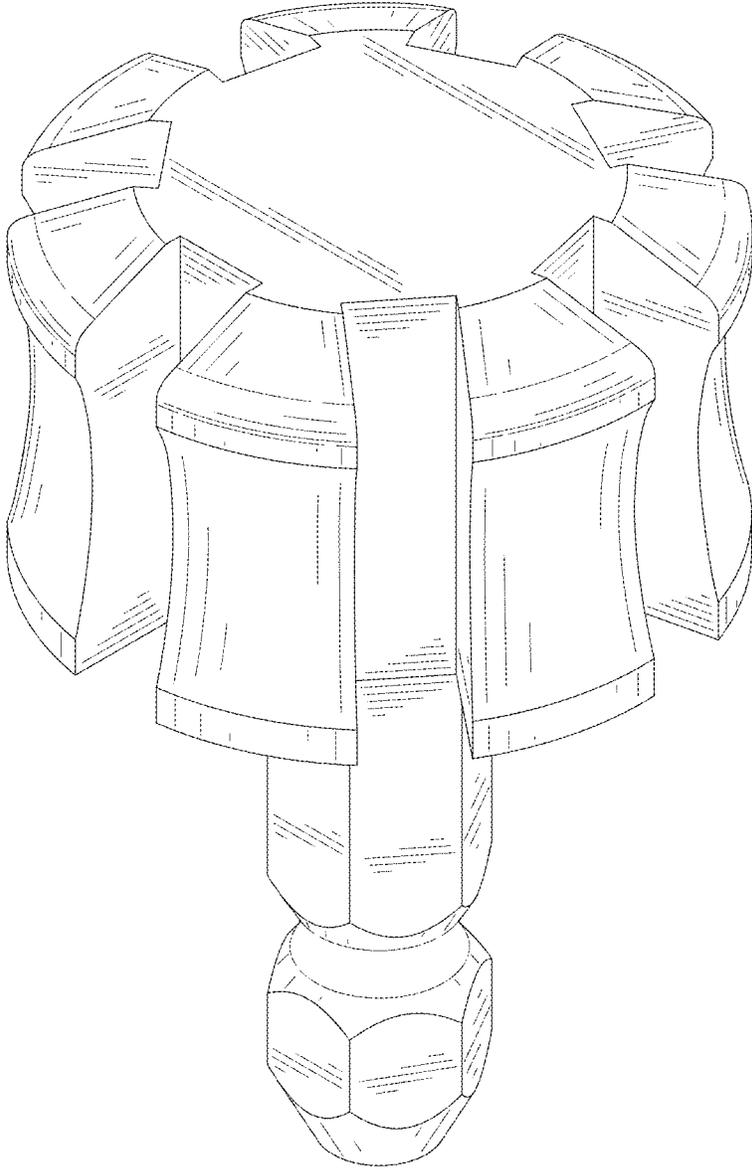


FIG. 1

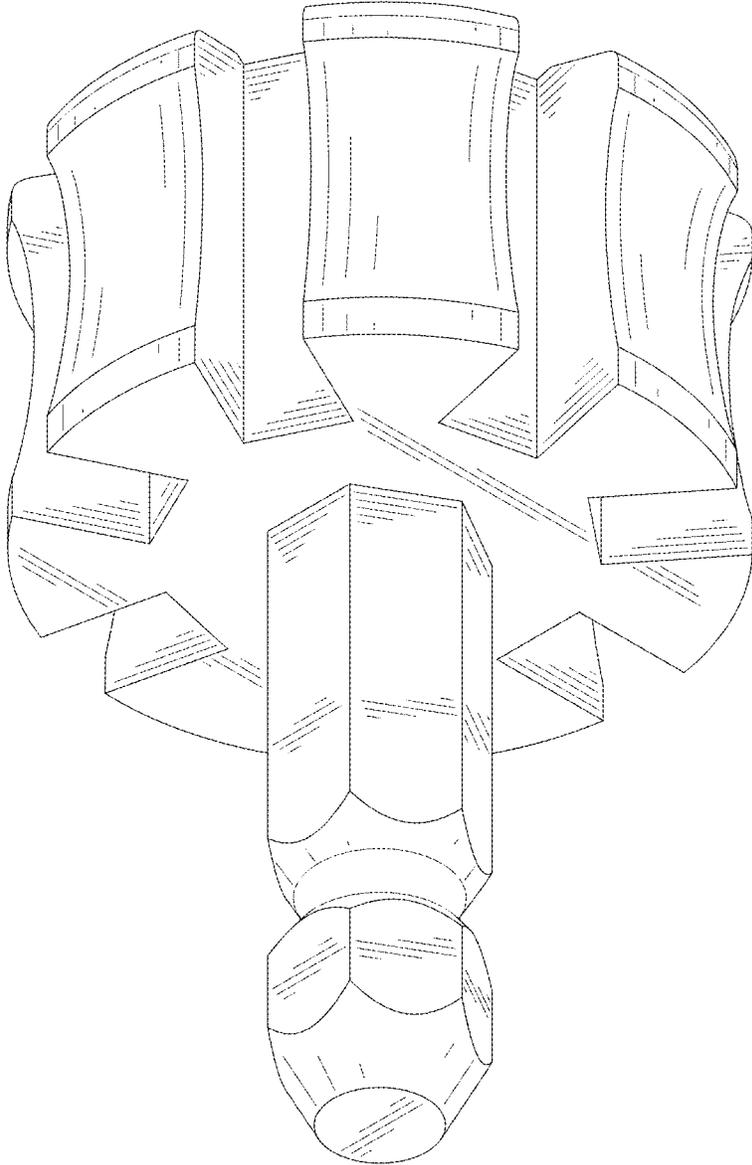


FIG. 2

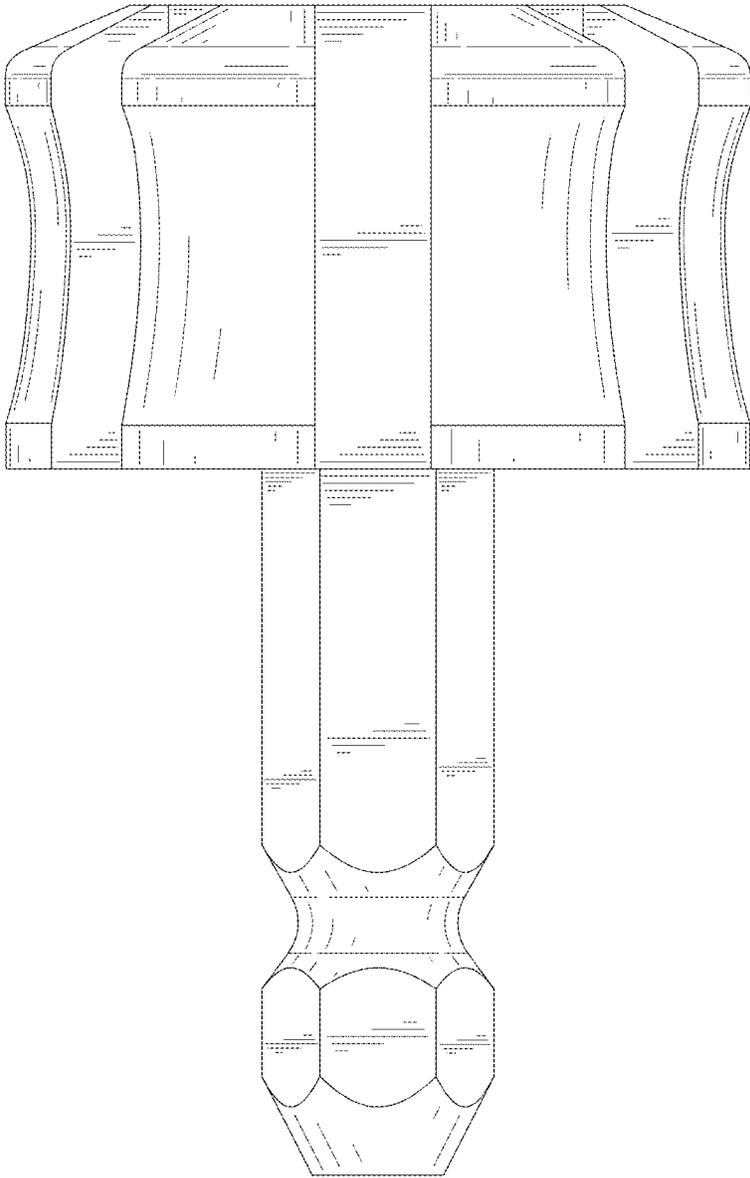


FIG. 3

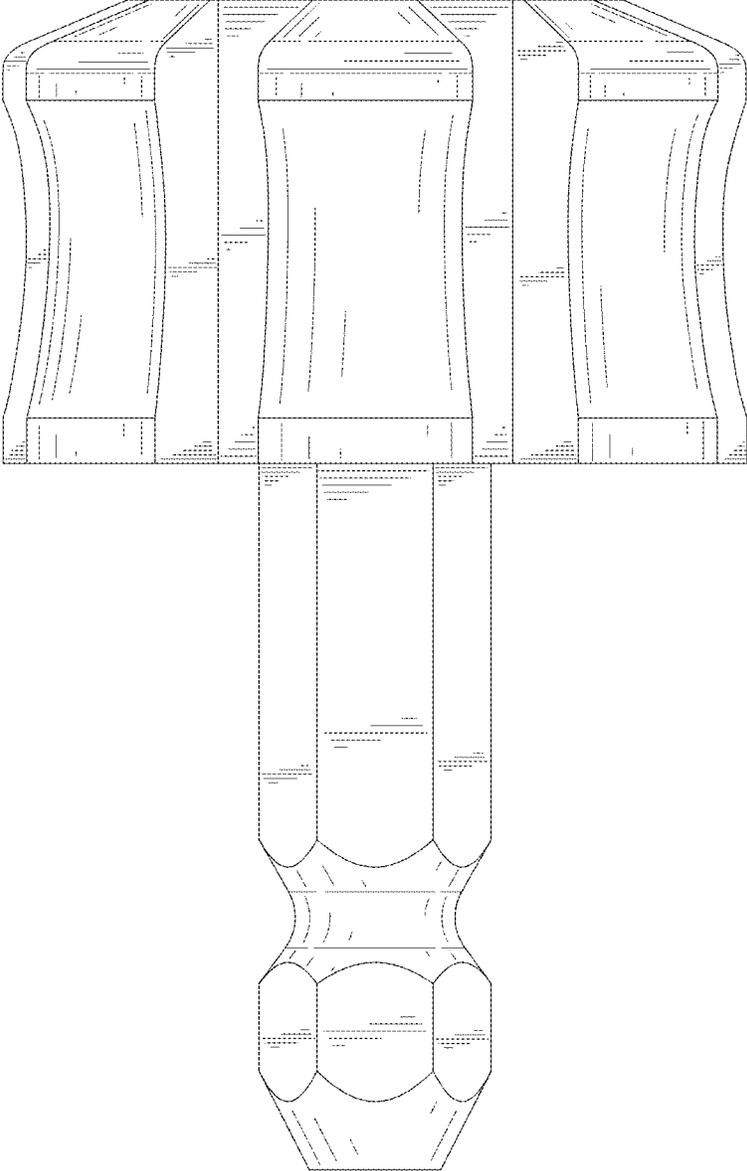


FIG. 4

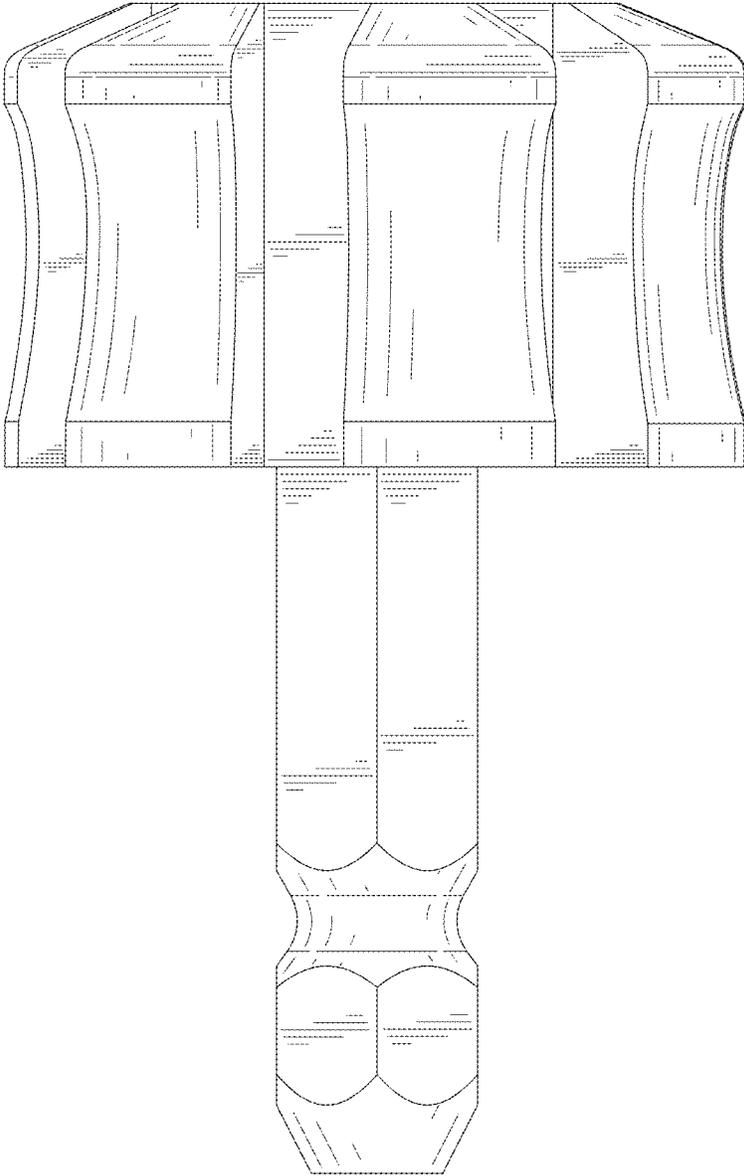


FIG. 5

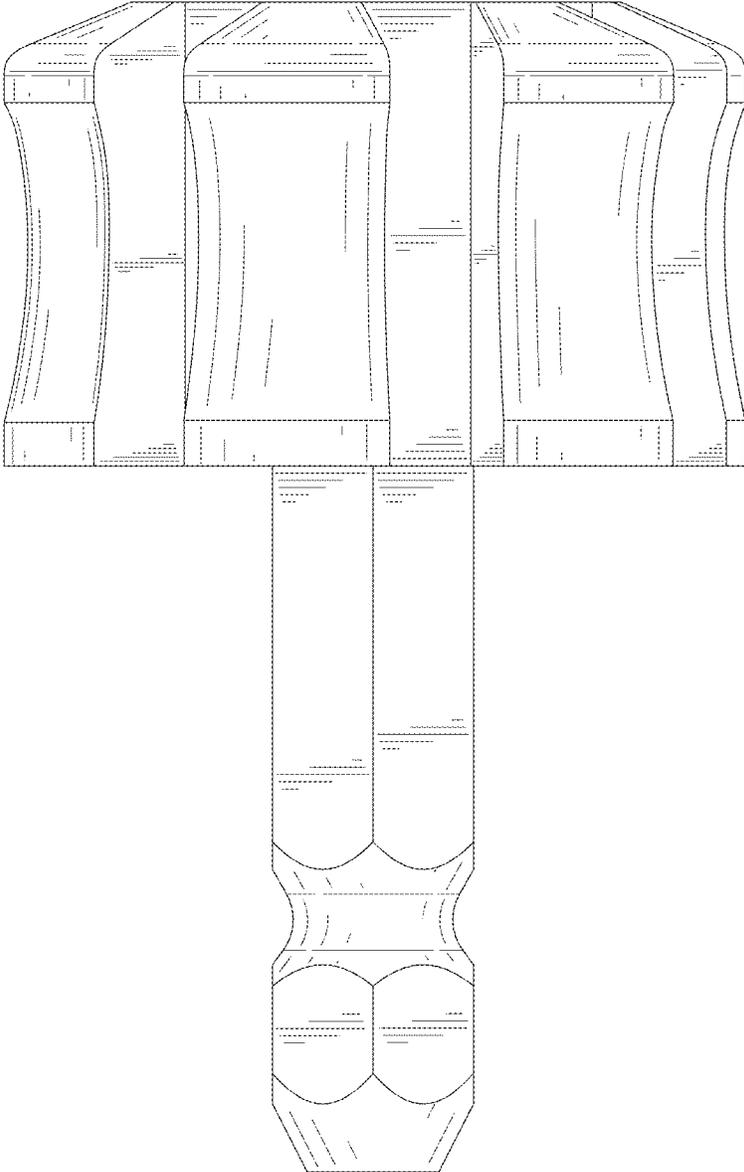


FIG. 6

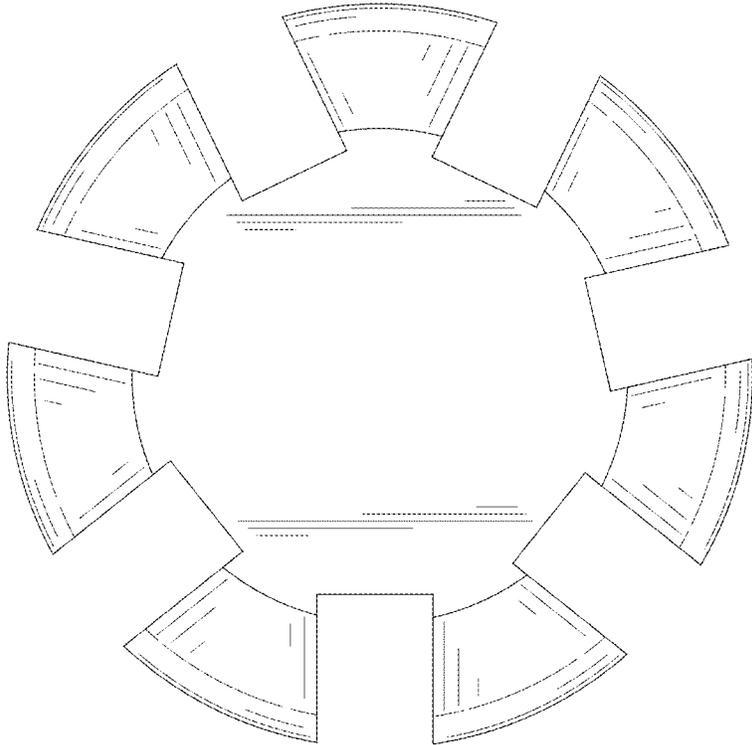


FIG. 7

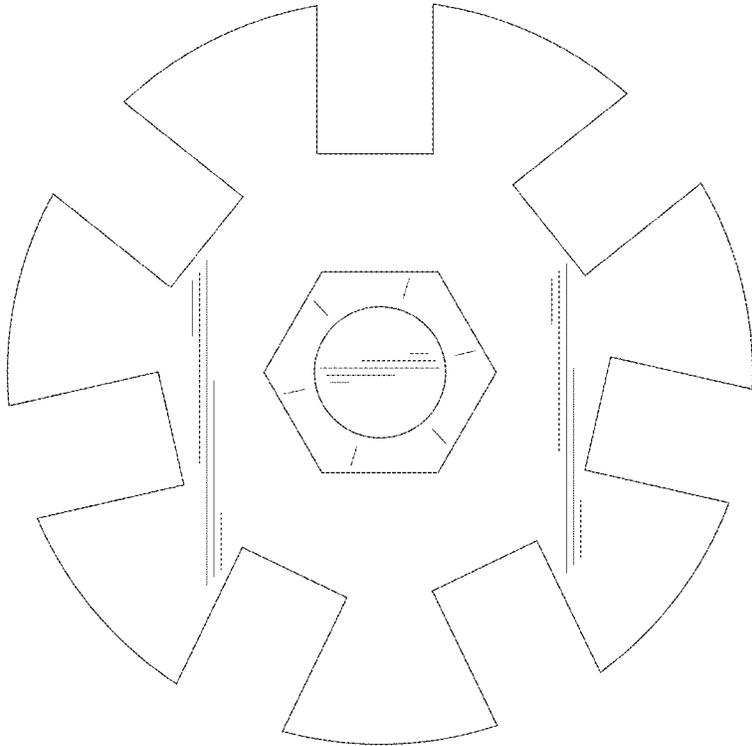


FIG. 8