



US00D974132S

(12) **United States Design Patent**
Chen

(10) **Patent No.:** **US D974,132 S**

(45) **Date of Patent:** **** Jan. 3, 2023**

(54) **ANTENNA WRENCH**

(71) Applicant: **Jun-Fan Chen**, Taichung (TW)

(72) Inventor: **Jun-Fan Chen**, Taichung (TW)

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

(21) Appl. No.: **29/772,847**

(22) Filed: **Mar. 4, 2021**

(51) **LOC (14) Cl.** **08-05**

(52) **U.S. Cl.**
USPC **D8/27**

(58) **Field of Classification Search**
USPC D26/113; D7/693; D8/1, 14-17, 19,
D8/21-29, 61, 73, 105, 107, 366, 371,
D8/372, 382, 384, 385, 388, 389, 499
CPC B25B 13/04; B25B 13/08; B25B 13/48;
B25B 13/50; B25B 33/005

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D13,435 S *	11/1882	Pope	.....	D8/28
D34,322 S *	4/1901	Talbot	.....	D8/26
D53,569 S *	7/1919	Cobb	.....	D8/26
D54,293 S *	12/1919	Volpe	.....	D8/17
3,292,465 A *	12/1966	Mulligan	.....	B25B 13/48
				D8/27
D212,308 S *	9/1968	Selander	.....	D8/27
D215,537 S *	10/1969	Cocks	.....	D8/27
D239,081 S *	3/1976	Cronin	.....	D8/27
D240,497 S *	7/1976	Riba	.....	D8/18
D246,283 S *	11/1977	Sapowith	.....	D8/14
D263,674 S *	4/1982	Ebert	.....	D8/27
D268,805 S *	5/1983	Kowalewicz	.....	D8/27
D289,373 S *	4/1987	Kimball	.....	D8/382
D296,292 S *	6/1988	Schoepe	.....	D8/28
D304,899 S *	12/1989	Liu	.....	D8/23

D309,411 S *	7/1990	Strock	.....	D8/19
D431,981 S *	10/2000	Aparnieks	.....	D8/27
D448,981 S *	10/2001	Solanki	.....	D8/28

(Continued)

OTHER PUBLICATIONS

Powerbuilt 640922 Antenna Wrench; Amazon.com; Jan. 22, 2011; Accessed Jun. 13, 2022; URL <<https://www.amazon.com/Powerbuilt-640922-Antenna-Wrench/dp/B004KED7KW?th=1>> (Year: 2011).*

(Continued)

Primary Examiner — Rachel A. Voorhies

Assistant Examiner — Benjamin D. Wannemacher

(74) *Attorney, Agent, or Firm* — Muncy, Geissler, Olds & Lowe, P.C.

(57) **CLAIM**

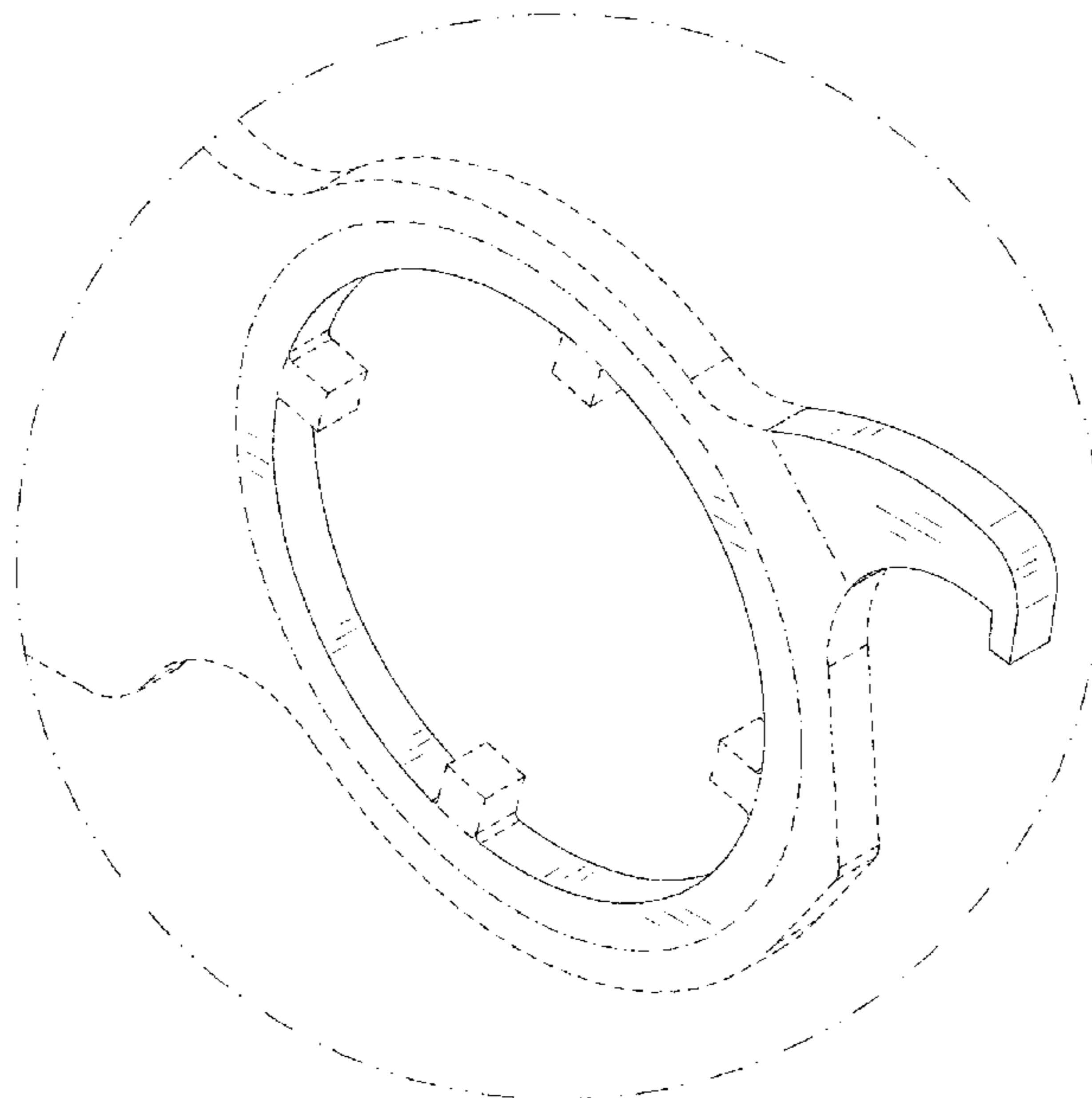
I claim the ornamental design for an antenna wrench, as shown and described.

DESCRIPTION

FIG. 1 is a top, front, right perspective view of an antenna wrench showing my new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a rear elevational view thereof; FIG. 4 is a left side view thereof; FIG. 5 is a right side view thereof; FIG. 6 is a top plan view thereof; FIG. 7 is a bottom plan view thereof; and, FIG. 8 is a partially enlarged view of FIG. 1.

The broken lines in the drawings illustrate portions of the antenna wrench which form no part of the claimed design. The dot-dash broken lines in the figures defines the boundary of claimed design and forms no part of the claimed design. The dot-dot-dash broken line circles of FIGS. 1 and 8 depict the limits of the enlarged views and form no part of the claimed design. The dot-dot-dash lead lines in FIG. 1 labeled 8 indicate the areas from which the enlargements in FIG. 8 is taken and form no part of the claimed design.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D479,964 S * 9/2003 McConnell D8/21
D549,561 S * 8/2007 Ingram D29/124
D637,500 S * 5/2011 Corbin D10/64
D652,282 S * 1/2012 Yasher D8/88
D661,959 S * 6/2012 Barnhart D8/16
D666,883 S * 9/2012 Howard F41A 35/00
D8/19
D673,433 S * 1/2013 Barnhart D8/16
D689,351 S * 9/2013 Webb, Jr. D8/27
D703,502 S * 4/2014 Cheng F41A 35/00
D8/21
D718,110 S * 11/2014 Hughes D8/105
D726,517 S * 4/2015 Fischer D8/17
D728,333 S * 5/2015 Sui D8/21
D742,706 S * 11/2015 Sui D8/21
D757,358 S * 5/2016 Ruscio D8/19
D767,352 S * 9/2016 Tarbell D8/16
D790,936 S * 7/2017 Leys D8/21
D805,865 S * 12/2017 Sui D8/21

D818,328 S * 5/2018 Li D8/21
D821,531 S * 6/2018 Hensley D22/108
D887,811 S * 6/2020 Adelman D8/105
D893,663 S * 8/2020 Hensley D22/108
D937,059 S * 11/2021 Shi D8/28
D953,824 S * 6/2022 McGee D7/693
2004/0144220 A1 * 7/2004 Stoick B25B 13/02
81/471
2022/0154509 A1 * 5/2022 Benedetti E05F 3/20

OTHER PUBLICATIONS

Spanner Nut Wrench Tool for Floor Heating Pipes and Cars Walnut with Non-Slip Handle; Amazon.com; Apr. 22, 2020; Accessed Jun. 12, 2022; URL < <https://www.amazon.com/dp/B087FGGZRL/> > (Year: 2020).*
Mult-Function Tool; Amazon.com; May 24, 2022, accessed Jun. 12, 2022; URL < <https://www.amazon.com/dp/B0B24KRRKL/> > (Year: 2022).*

* cited by examiner

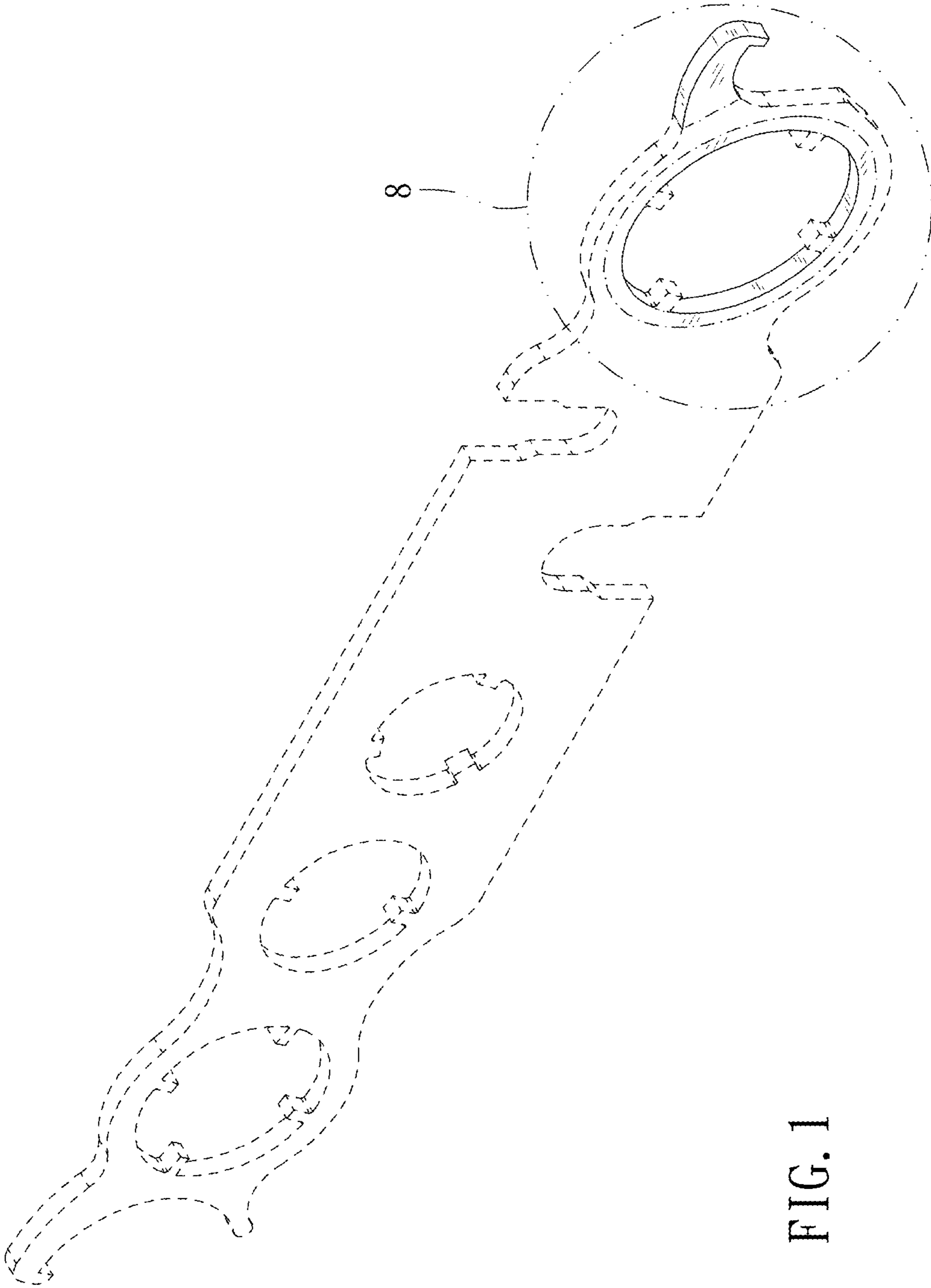


FIG. 1

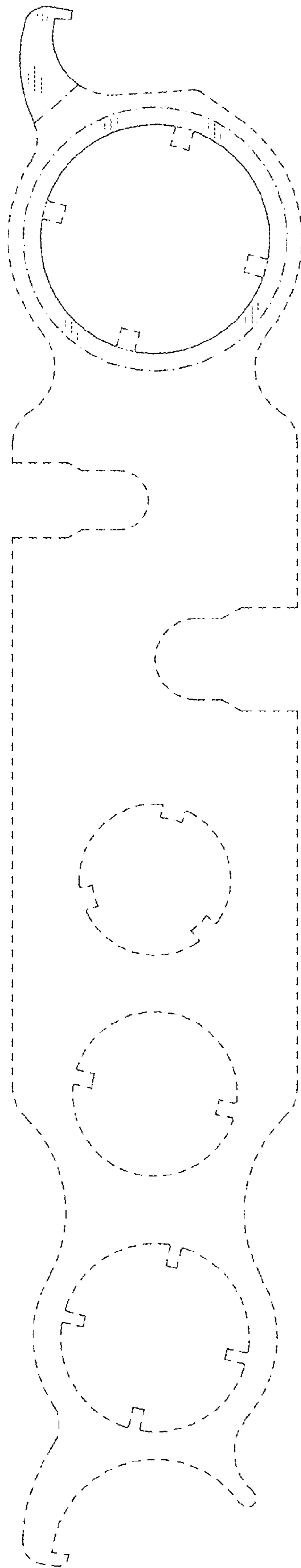


FIG. 2

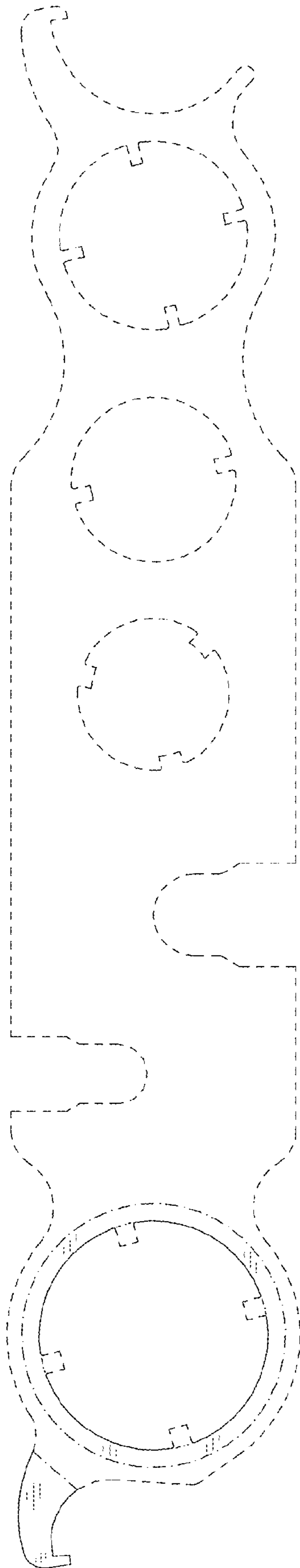


FIG. 3

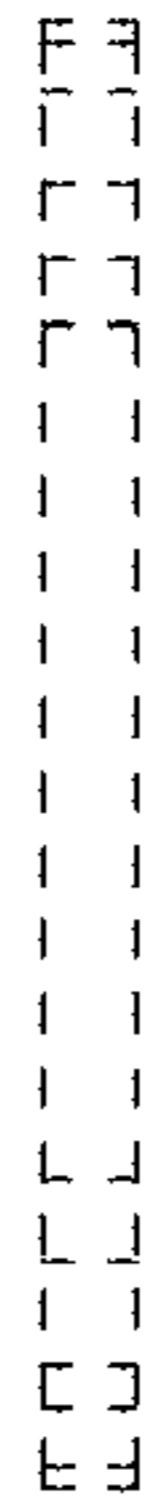


FIG. 4

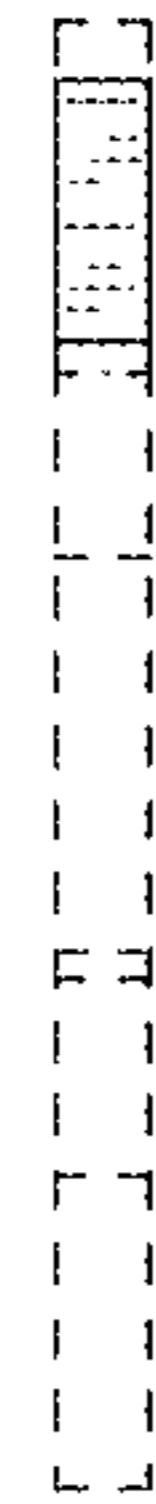


FIG. 5

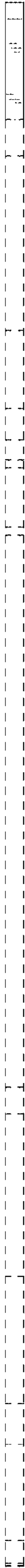


FIG. 6



FIG. 7

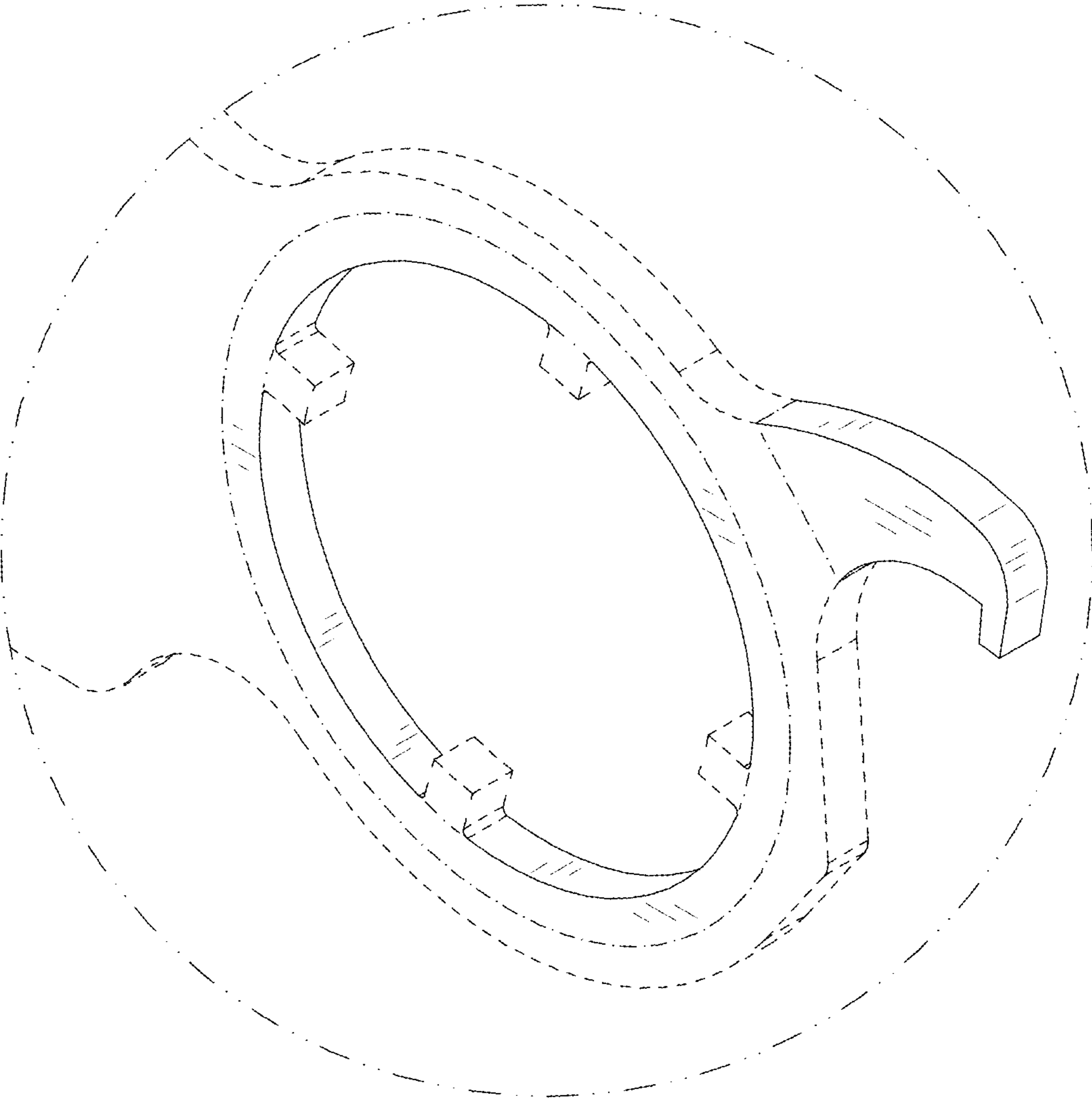


FIG. 8