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

(10) **Patent No.:** **US D974,132 S**
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- (54) **ANTENNA WRENCH**
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- (**) Term: **15 Years**
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- (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.

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)

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(57) **CLAIM**

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

DESCRIPTION

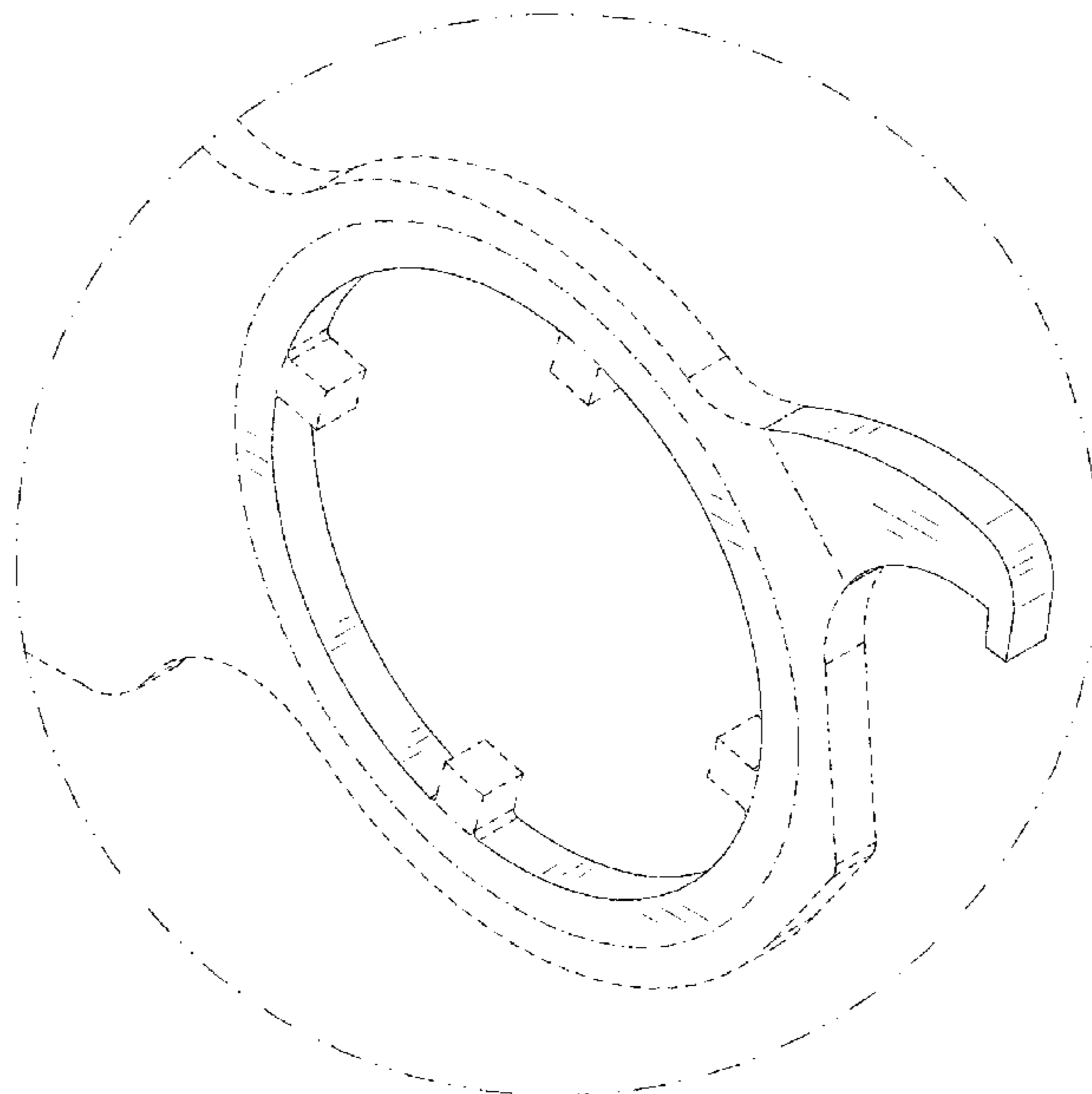
FIG. 1 is a top, front, right perspective view of an antenna wrench showing my new design;
FIG. 2 is a front elevational view thereof;
FIG. 3 is a rear elevational view thereof;
FIG. 4 is a left side view thereof;
FIG. 5 is a right side view thereof;
FIG. 6 is a top plan view thereof;
FIG. 7 is a bottom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

(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

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).*
 Muilt-Function Tool; Amazon.com; May 24, 2022, accessed Jun.
 12, 2022; URL < <https://www.amazon.com/dp/B0B24KRRKL/> >
 (Year: 2022).*

* cited by examiner

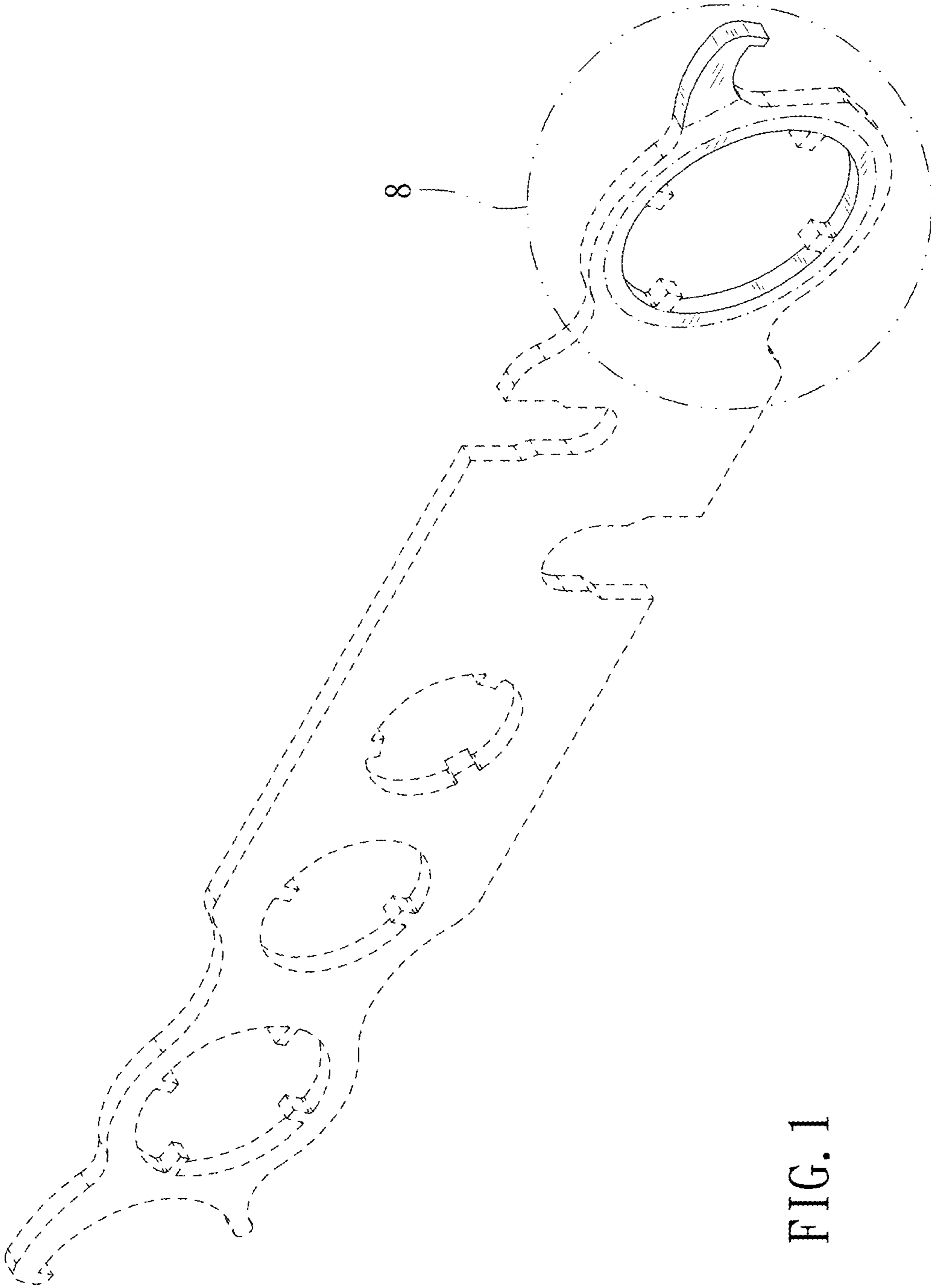


FIG. 1

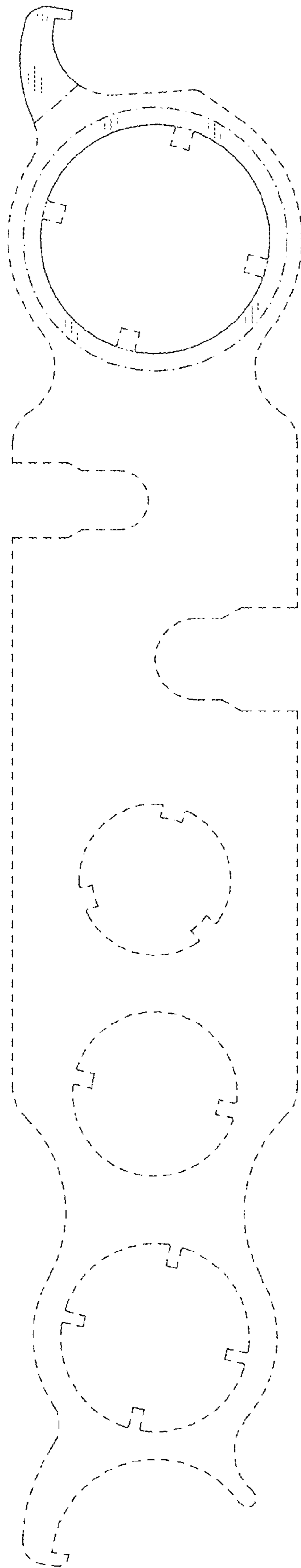


FIG. 2

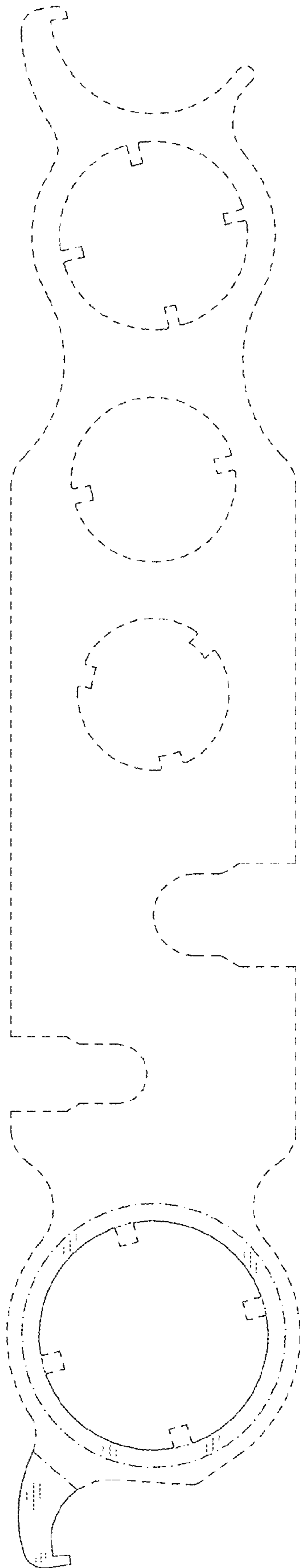


FIG. 3

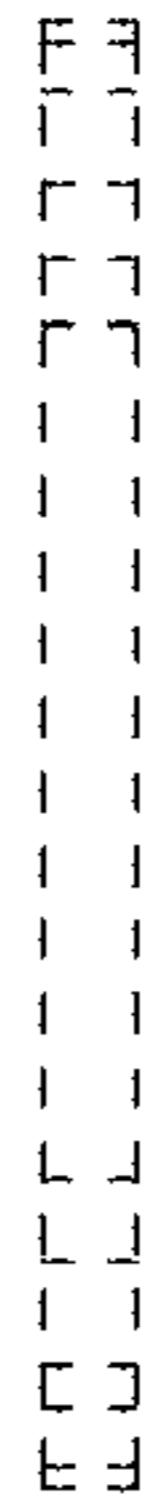


FIG. 4

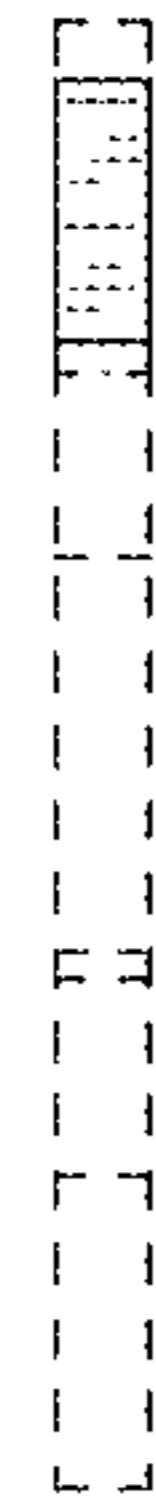


FIG. 5

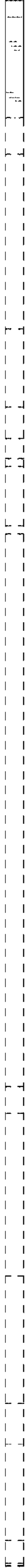


FIG. 6



FIG. 7

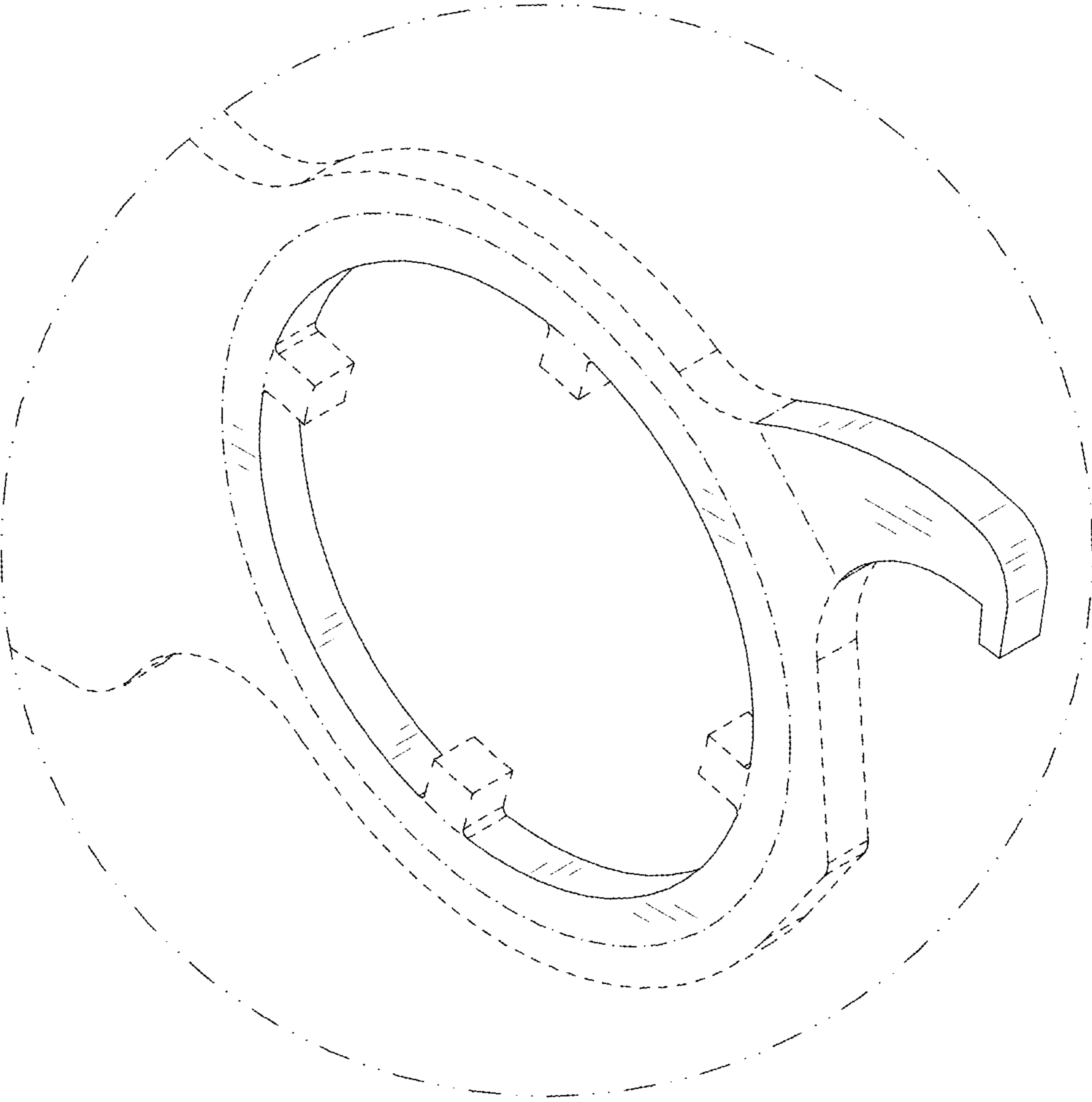


FIG. 8