



US00D442852S

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

(10) **Patent No.:** **US D442,852 S**

(45) **Date of Patent:** **** *May 29, 2001**

(54) **SQUARED OVERLAP COIL**

(75) Inventors: **Praburam Gopalraja**, San Jose; **John C. Forster**, San Francisco; **Michael Rosenstein**, Sunnyvale, all of CA (US)

(73) Assignee: **Applied Materials, Inc.**, Santa Clara, CA (US)

(*) Notice: This patent is subject to a terminal disclaimer.

(**) Term: **14 Years**

(21) Appl. No.: **29/109,870**

(22) Filed: **Aug. 24, 1999**

(51) **LOC (7) Cl.** **08-08**

(52) **U.S. Cl.** **D8/395; D8/396**

(58) **Field of Search** D8/394-396; D13/133, D13/149; D15/144.2; 204/192.25, 279, 297, 671; 285/420, 322; 24/20 R, 22, 25, 28 EE, 16 EB, 20 CW; 439/799, 816, 860, 575, 574

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 118,252 * 8/1871 Lewis .
- 565,698 * 8/1896 Sparks .
- 4,154,011 * 5/1979 Rakestraw et al. .
- 4,478,437 * 10/1984 Skinner .
- 4,948,458 8/1990 Ogle .
- 4,990,229 2/1991 Campbell et al. .
- 4,999,096 3/1991 Nihei et al. .
- 5,001,816 * 3/1991 Oetiker .
- 5,146,137 9/1992 Gesche et al. .
- 5,150,503 * 9/1992 Müller .
- 5,178,739 1/1993 Barnes et al. .
- 5,231,334 7/1993 Paranjpe .

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

- 0653776 5/1995 (EP) .
- 0727923 2/1996 (EP) .

- 0836219 6/1997 (EP) .
- 0807954 8/1997 (EP) .
- 0813227 9/1997 (EP) .
- 0836218 4/1998 (EP) .
- 0840351 5/1998 (EP) .

OTHER PUBLICATIONS

N. Jiwari et al., 8257a Journal of Vacuum Science & Technology A 12(4), "Helicon Wave Plasma Reactor Employing a Single-loop Antenna", Jul./Aug. 1994, pp. 1322-1327.

U.S. application No. 29/109,892.

U.S. application No. 29/109,893.

U.S. application No. 08/113,577, 5423063.

U.S. application No. 29/090,631.

U.S. application No. 29/090,618.

Applied Materials, Inc., Exhibit A, dated more than one year prior to Aug. 24, 1999, the filing date of the present application. (Exhibit A is a drawing of a prior art coil design which is prior to the design of the present application.)

Primary Examiner—B. J. Bullock

(74) *Attorney, Agent, or Firm*—Konrad Raynes & Victor LLP

(57) **CLAIM**

The ornamental design for a squared overlap coil, substantially as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view;

FIG. 2 is a front elevational view;

FIG. 3 is a cross-sectional view taken in the direction of the arrows on line 3—3 of FIG. 2;

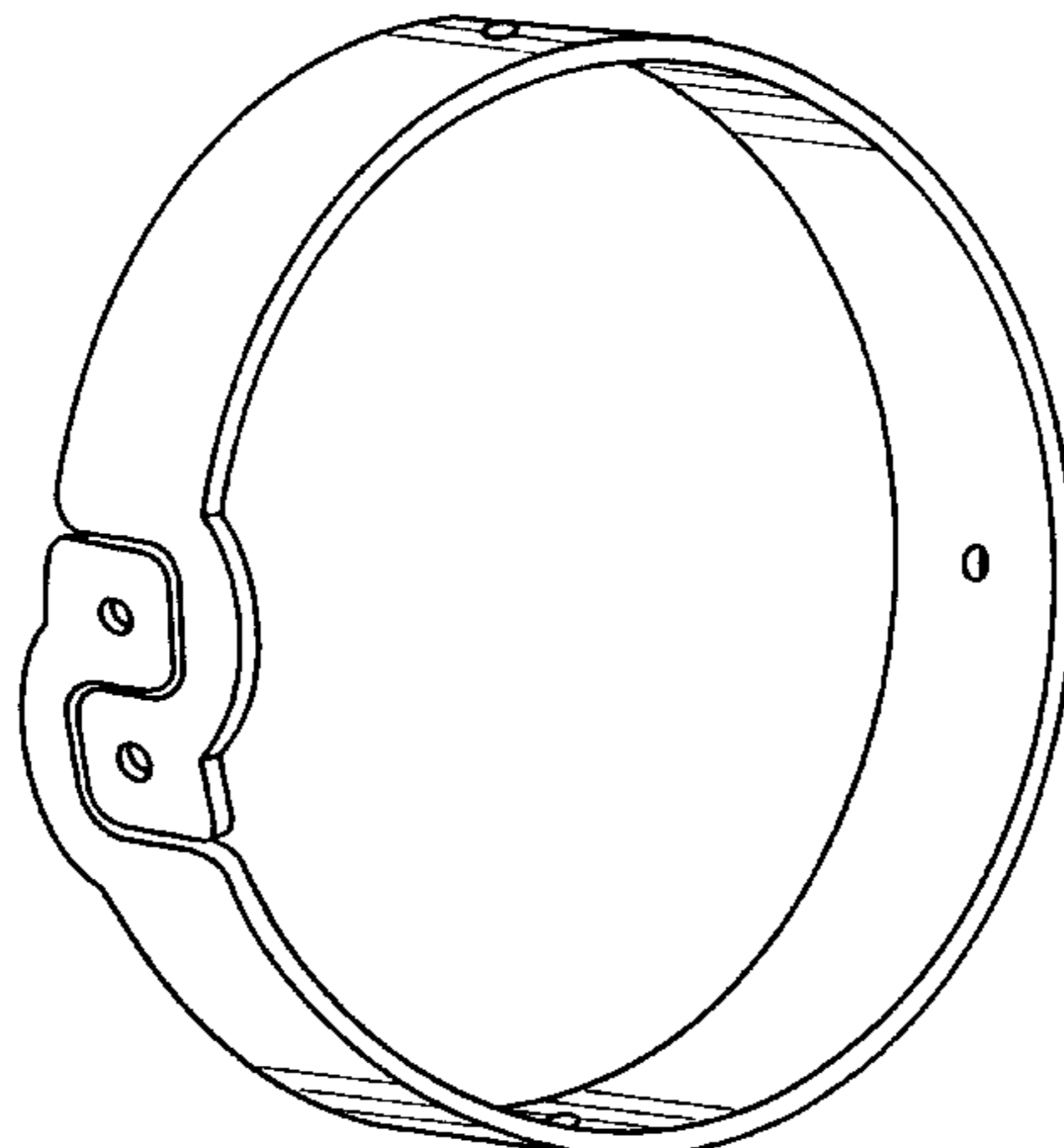
FIG. 4 is a top view;

FIG. 5 is a left side elevational view;

FIG. 6 is a rear elevational view; and,

FIG. 7 is a right side elevational view of our squared overlap coil.

1 Claim, 2 Drawing Sheets



US D442,852 S

Page 2

U.S. PATENT DOCUMENTS

5,280,154	1/1994	Cuomo et al. .	5,430,355	7/1995	Paranjpe .
5,304,279	4/1994	Coultas et al. .	5,637,961	6/1997	Ishii et al. .
5,346,578	9/1994	Benzing et al. .	5,669,975	9/1997	Ashtiani .
5,397,962	3/1995	Moslehi .	5,681,393	10/1997	Takagi .
5,401,350	3/1995	Patrick et al. .	5,707,498	1/1998	Ngan .
5,404,079	4/1995	Ohkuni et al. .	5,721,021	2/1998	Tobe et al. .
5,418,431	5/1995	Williamson et al. .	5,770,098	6/1998	Araki et al. .
5,429,070	7/1995	Campbell et al. .	5,783,492	7/1998	Higuchi et al. .

* cited by examiner

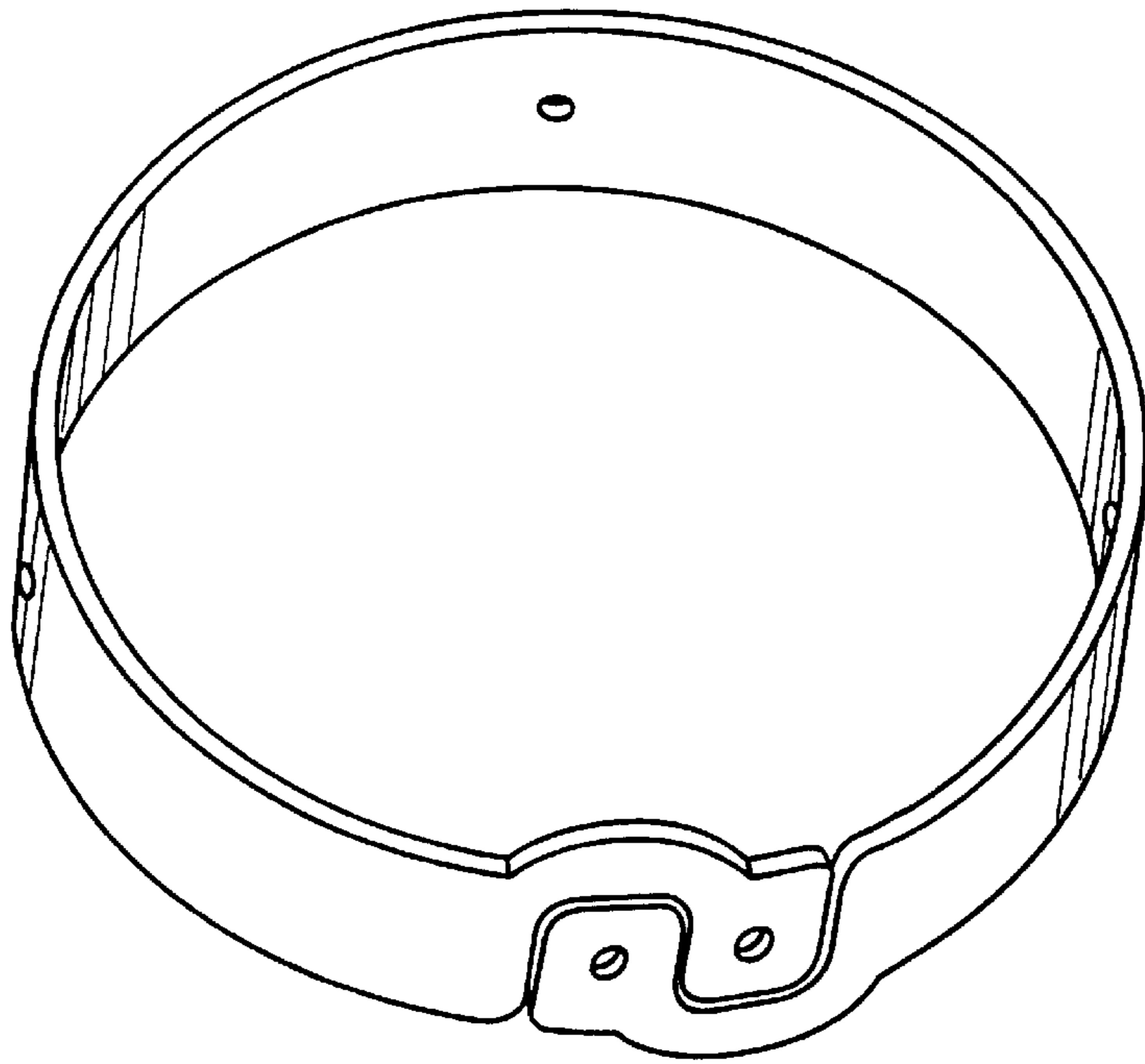


Fig. 1

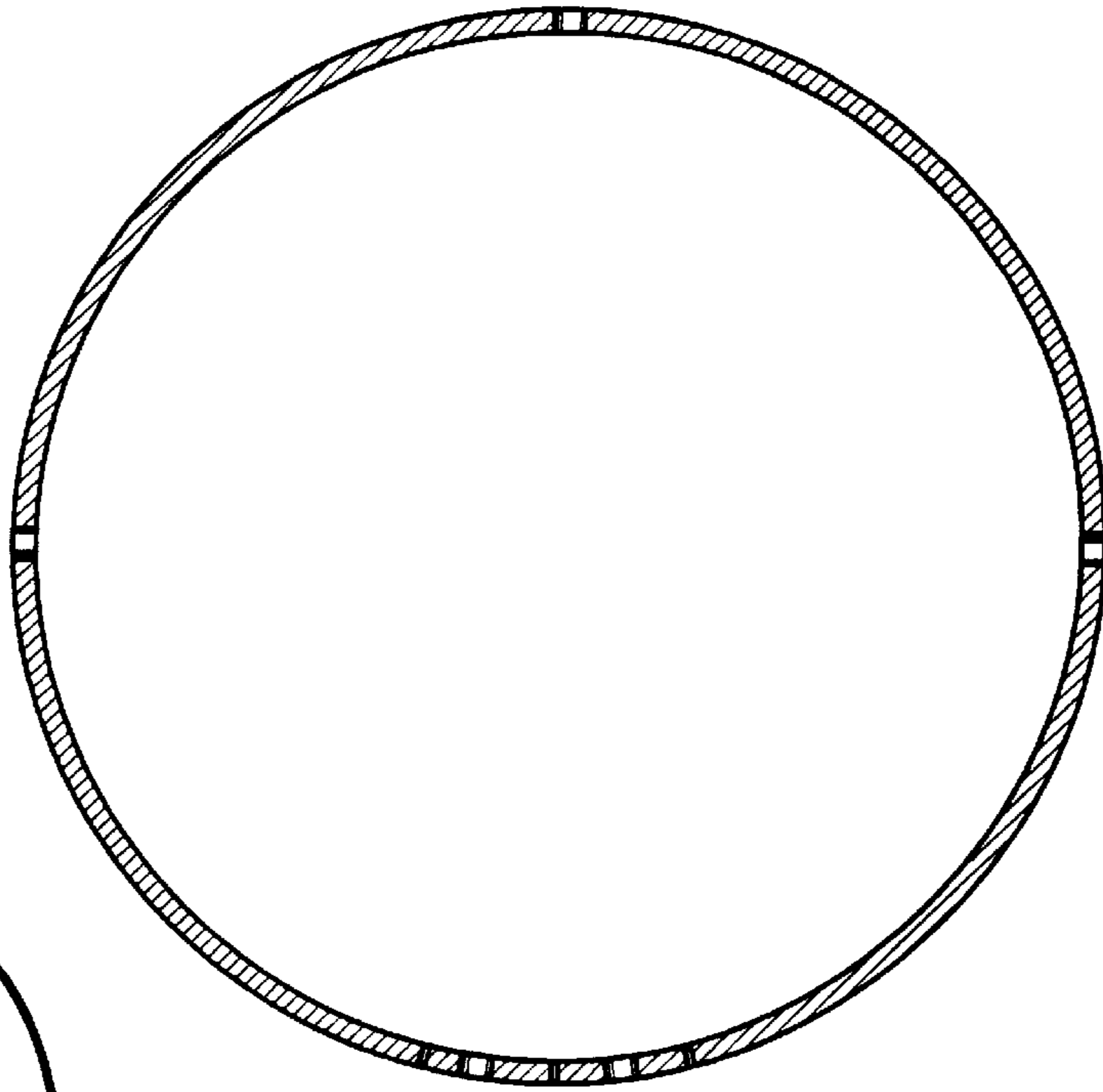


Fig. 3

Fig. 2

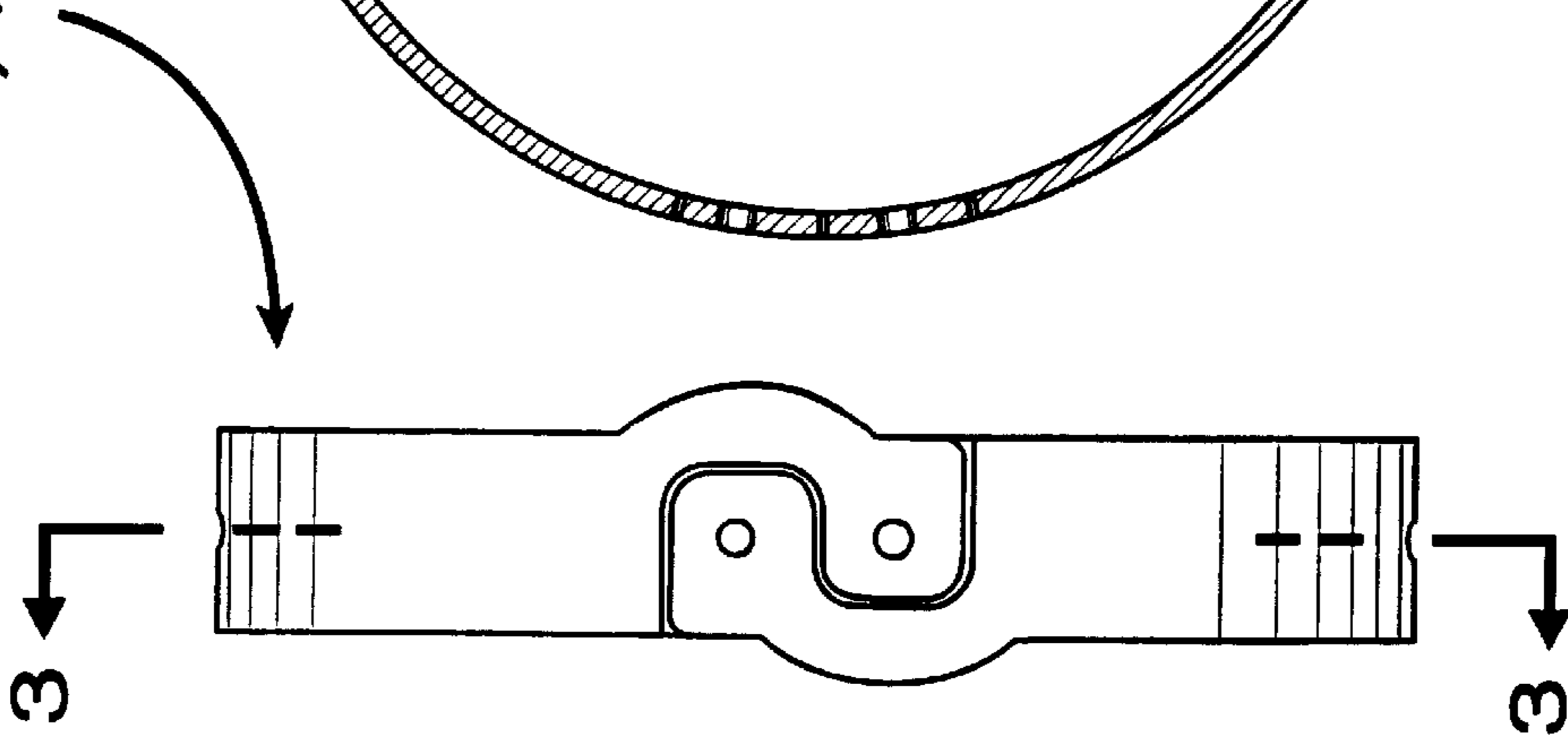


Fig. 5

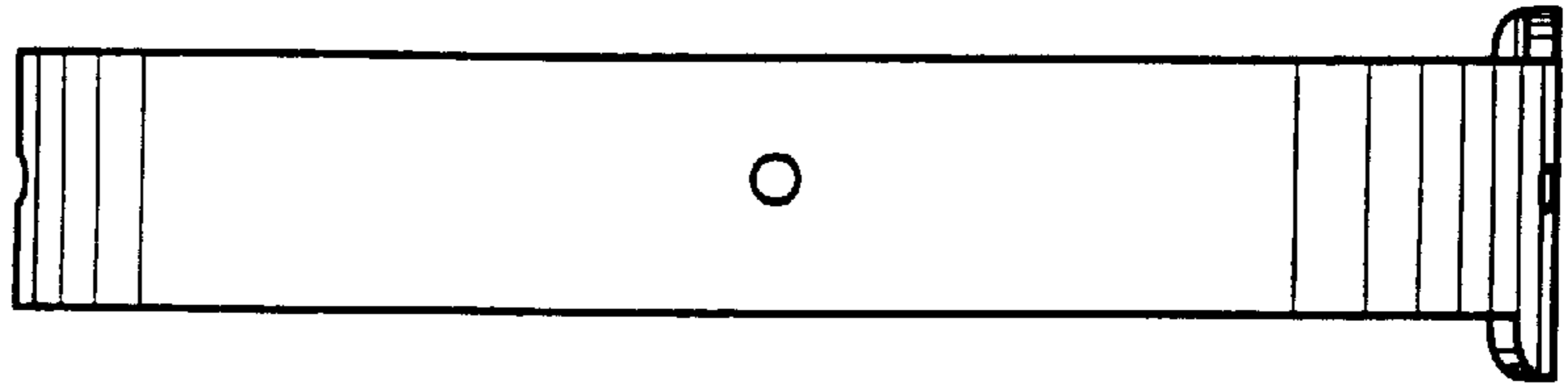


Fig. 4

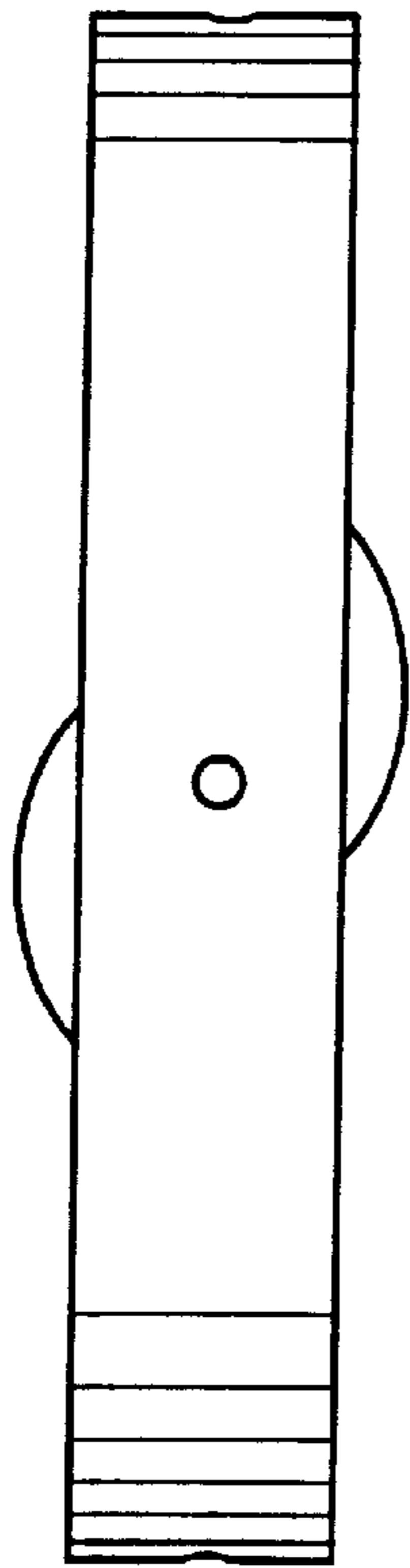
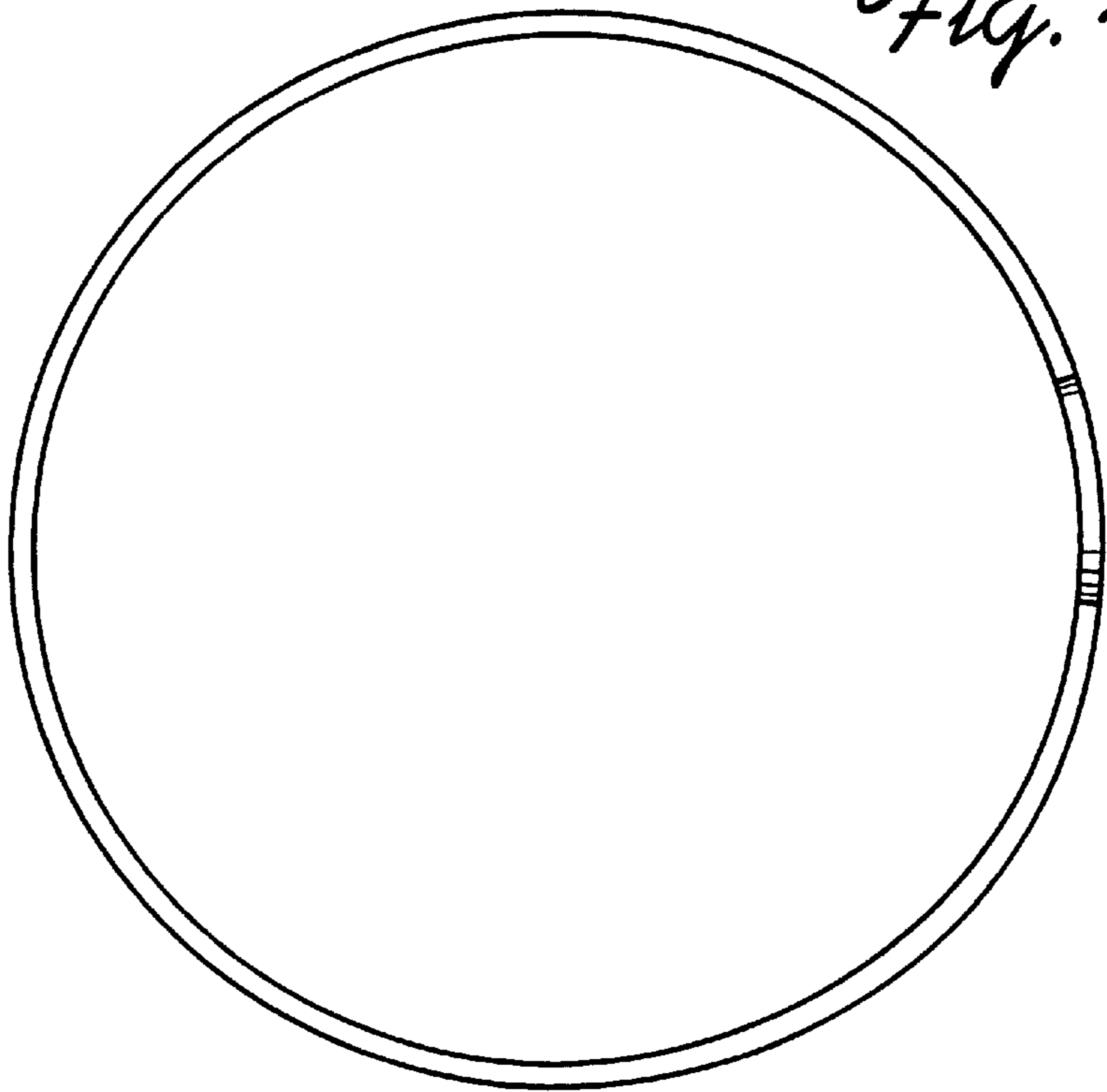


Fig. 6

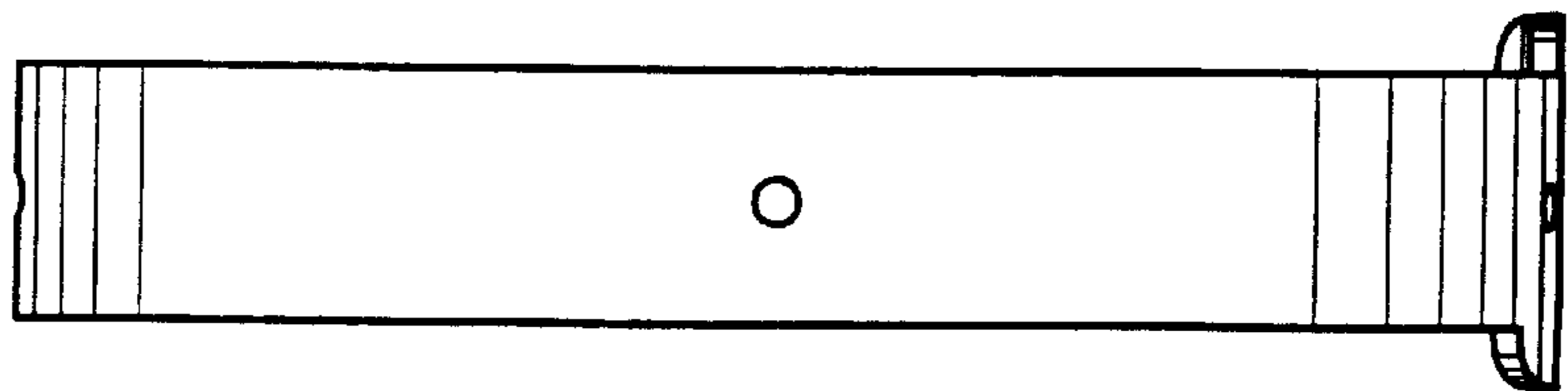


Fig. 7