



US00D670303S

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

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(54) **ROTARY DAMPER**

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(73) Assignee: **Nifco Inc.**, Yokoyama-Shi (JP)

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

(21) Appl. No.: **29/371,872**

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(30) **Foreign Application Priority Data**

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(51) **LOC (9) Cl.** **14-99**

(52) **U.S. Cl.** **D14/483**

(58) **Field of Classification Search** D14/299,
D14/474-483, 496; D8/323, 499; D15/143,
D15/147, 199; 188/262, 290, 371, 378; 360/137,
360/220, 221.1, 230; 475/92; 464/180
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,513,473 A * 4/1985 Omata 16/82
4,614,004 A * 9/1986 Oshida 16/82
4,869,125 A * 9/1989 Saigusa 464/180
5,277,282 A * 1/1994 Umemura 188/290
5,718,309 A * 2/1998 Kariya 188/290
6,604,614 B2 * 8/2003 Kurihara et al. 188/290
D479,242 S * 9/2003 Kurachi et al. D14/483
D486,833 S * 2/2004 Koizumi et al. D14/483
D494,601 S * 8/2004 Arisaka et al. D14/483

D494,602 S * 8/2004 Arisaka et al. D14/483
D540,809 S * 4/2007 Okabayashi et al. D14/483
7,264,096 B2 * 9/2007 Hayashi et al. 188/290
D566,122 S * 4/2008 Takei D14/483
D566,123 S * 4/2008 Takei D14/483
7,424,939 B2 * 9/2008 Hayashi et al. 188/290
D584,315 S * 1/2009 Yamaguchi D14/483
7,959,201 B2 * 6/2011 Staib 296/37.12
2005/0115784 A1 * 6/2005 Muller et al. 188/290
2006/0011428 A1 * 1/2006 Hayashi et al. 188/290

* cited by examiner

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(57) **CLAIM**

The ornamental design for a rotary damper, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a rotary damper showing my new design;
FIG. 2 is a front view thereof;
FIG. 3 is a rear 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; and,
FIG. 8 is a cross-sectional view thereof taken along line 8-8 in FIG. 2.

The broken lines depict portions of the rotary damper that form no part of claimed design.

1 Claim, 3 Drawing Sheets

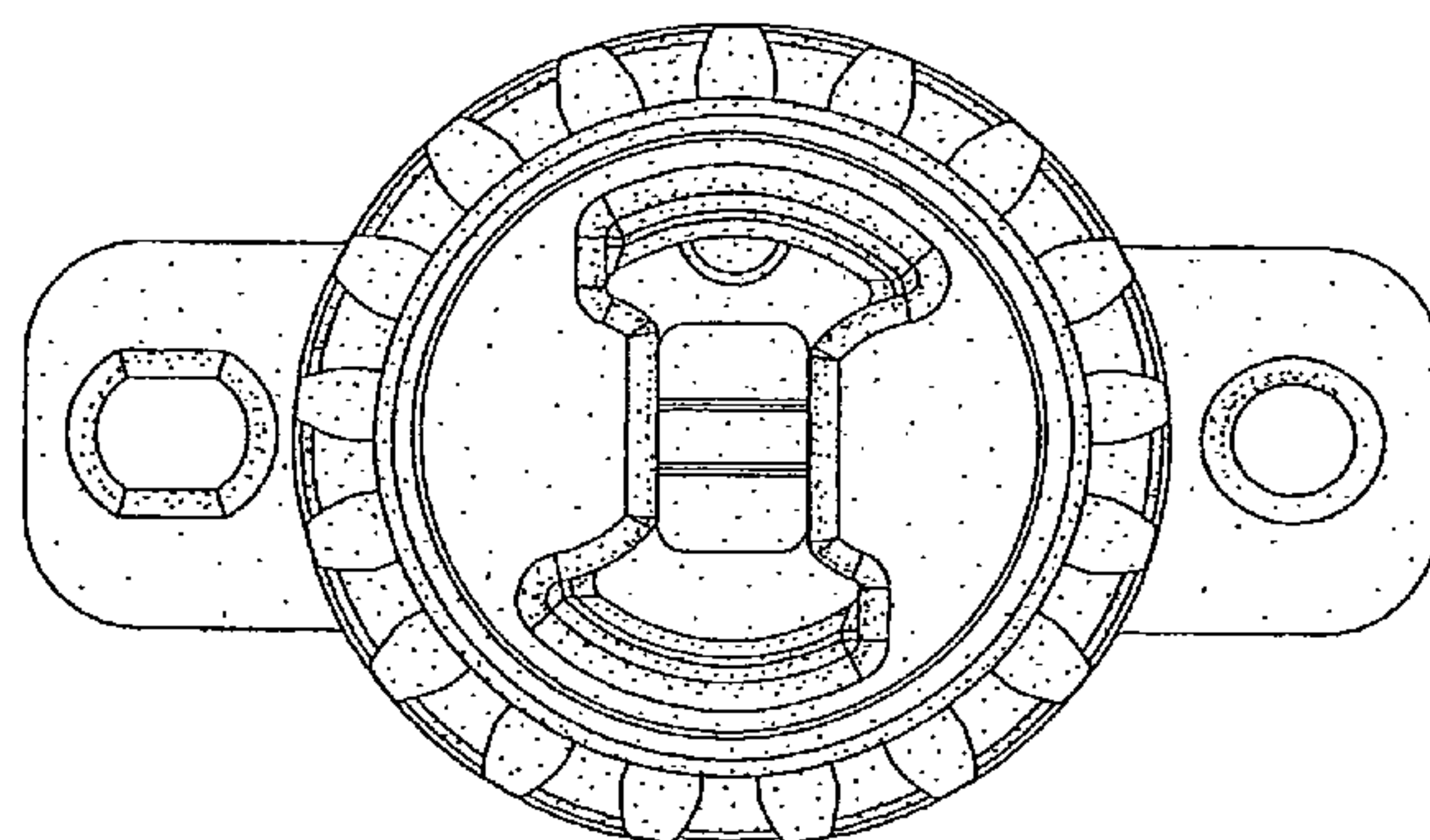
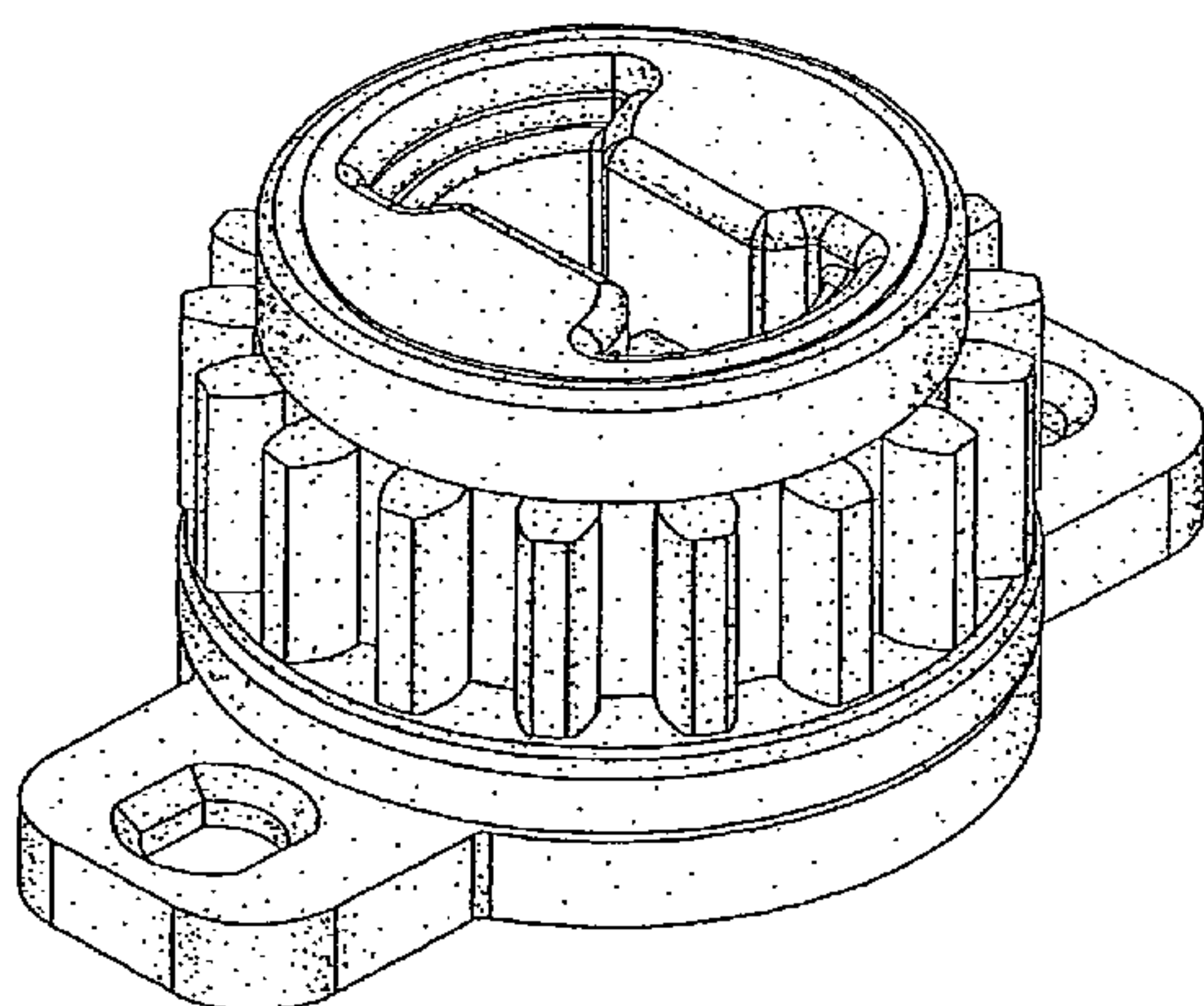


Fig. 1

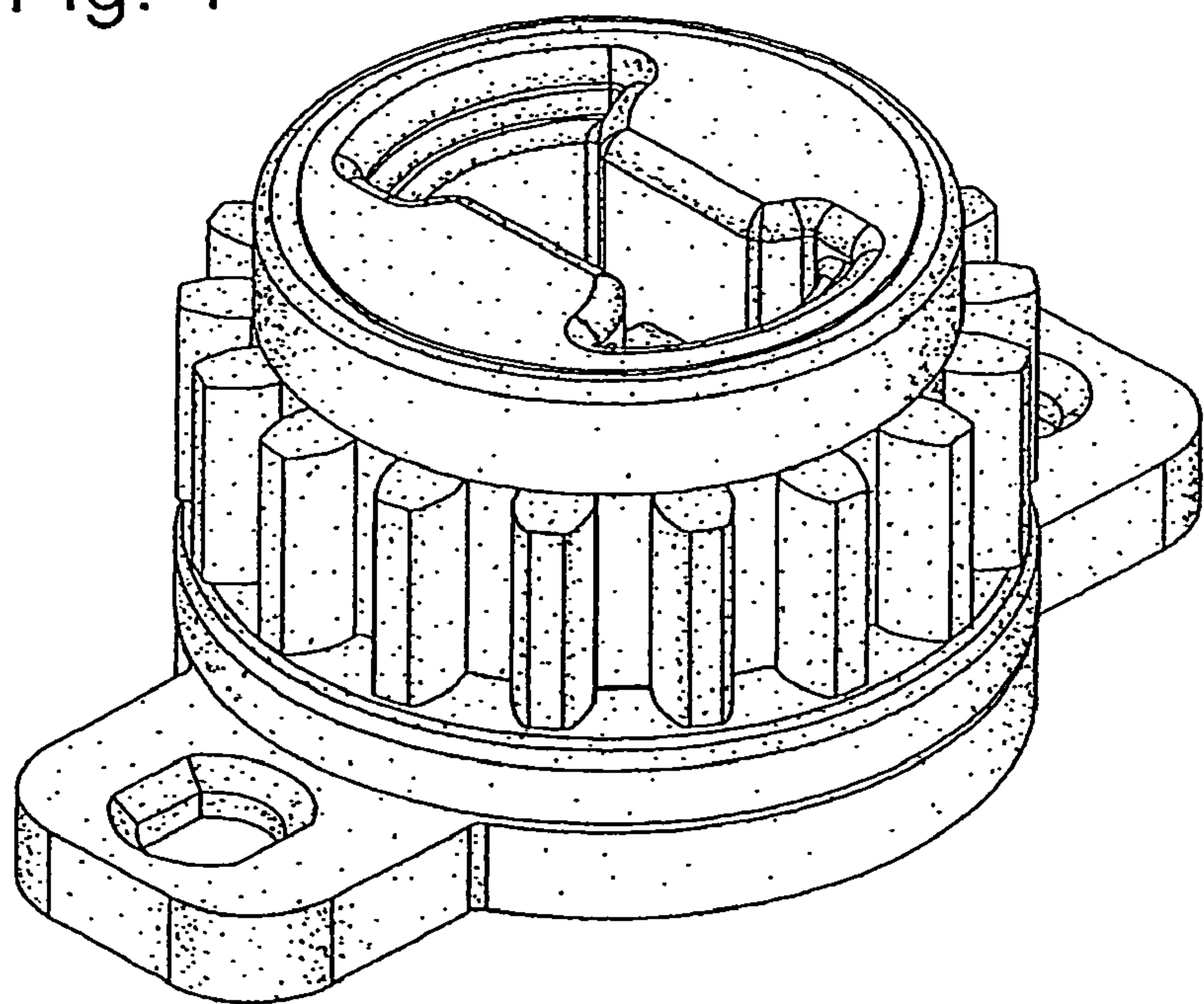


Fig. 2

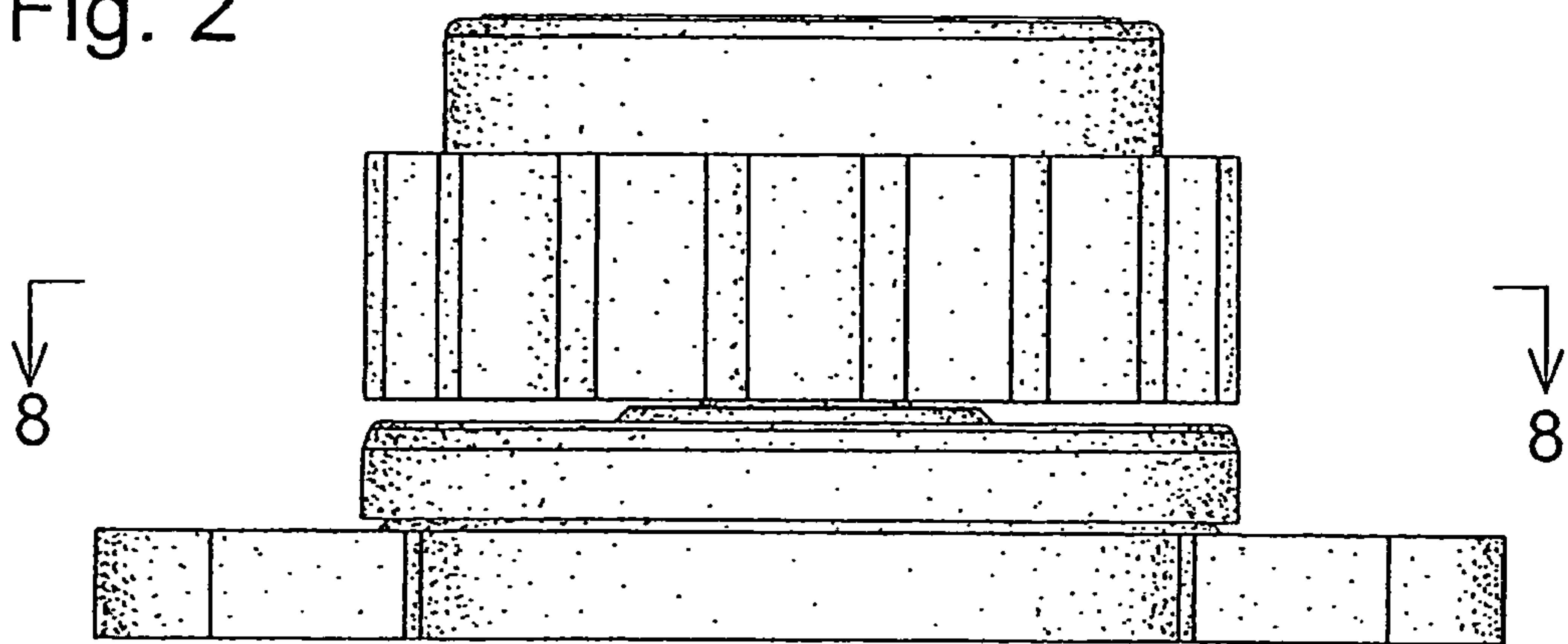


Fig. 3

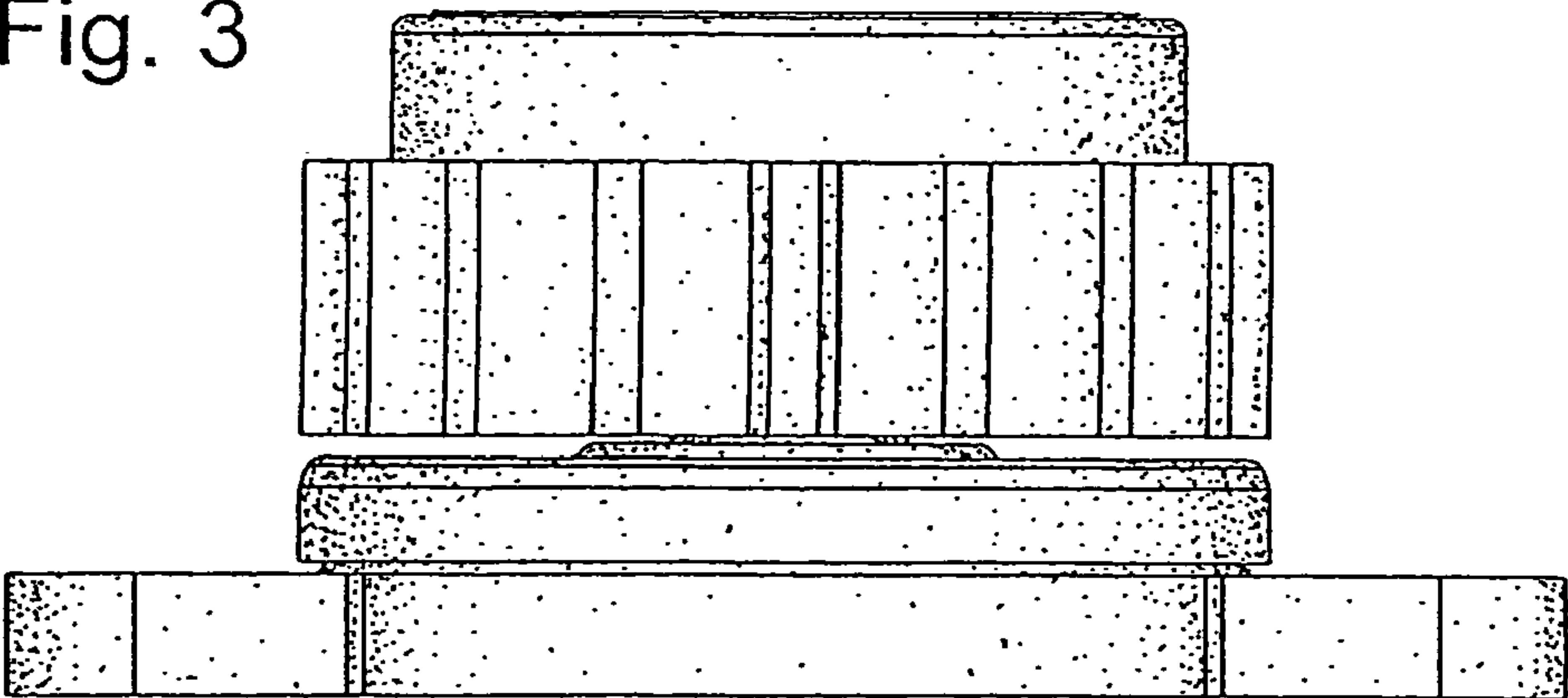


Fig. 4

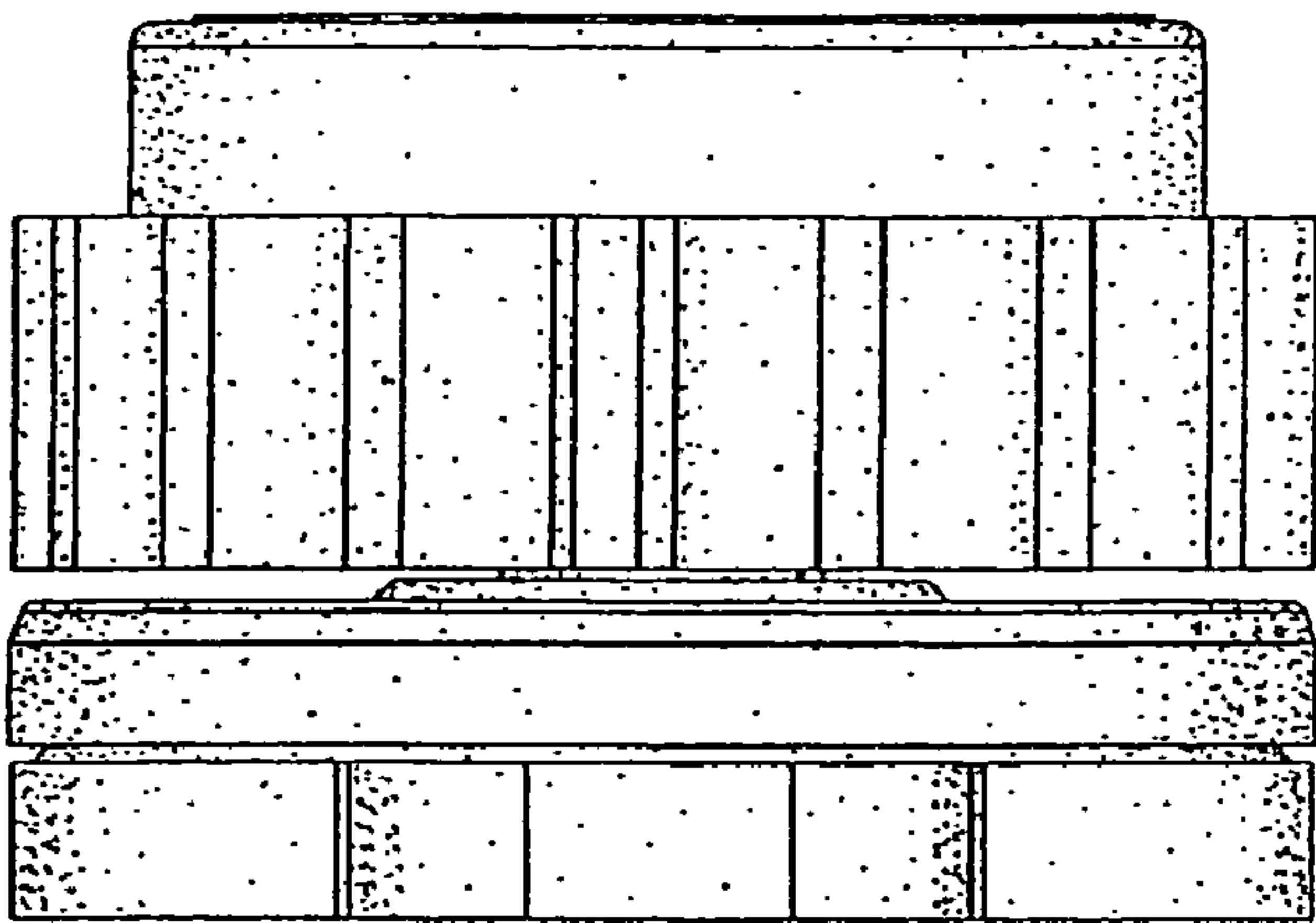


Fig. 5

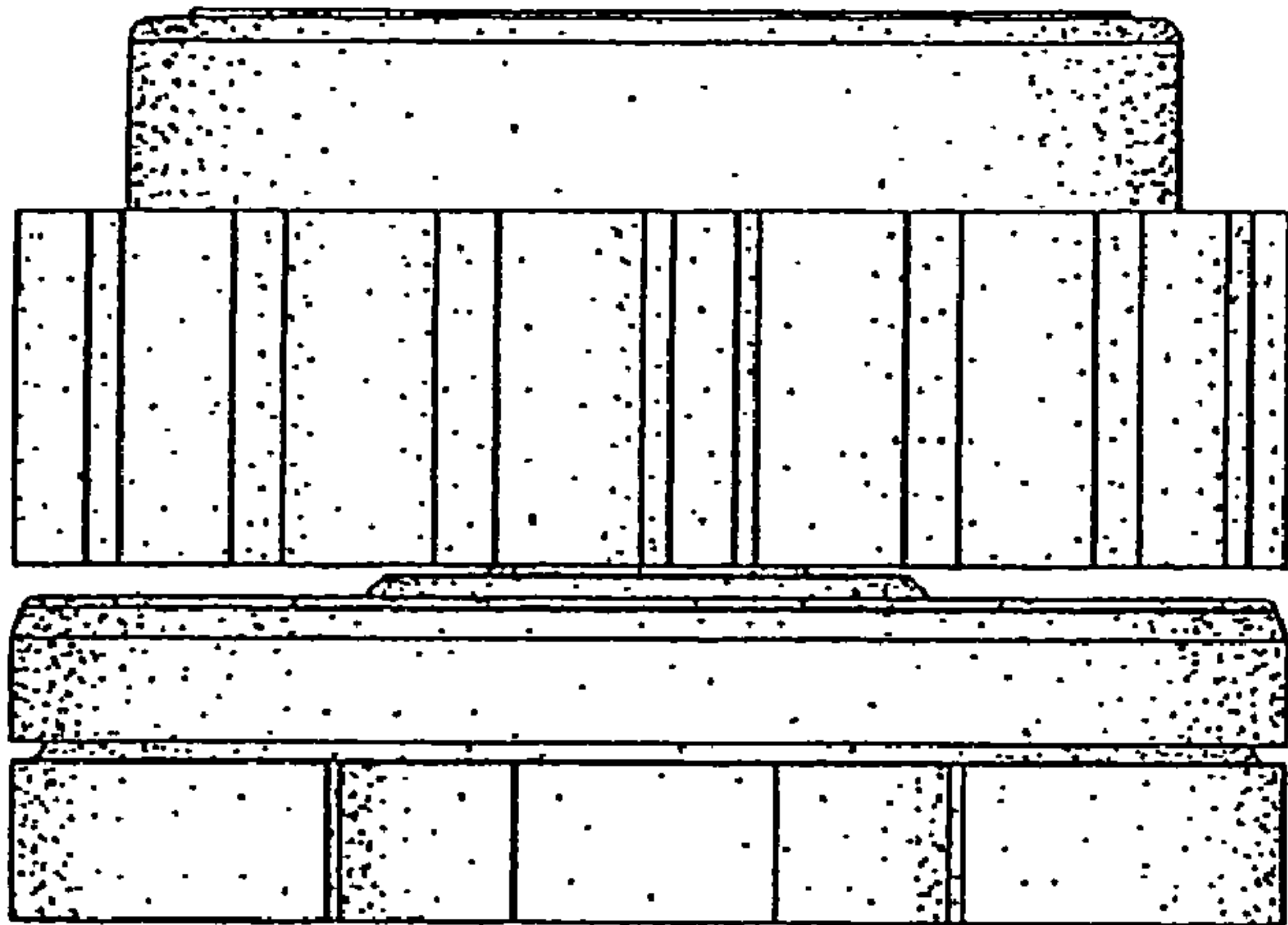


Fig. 6

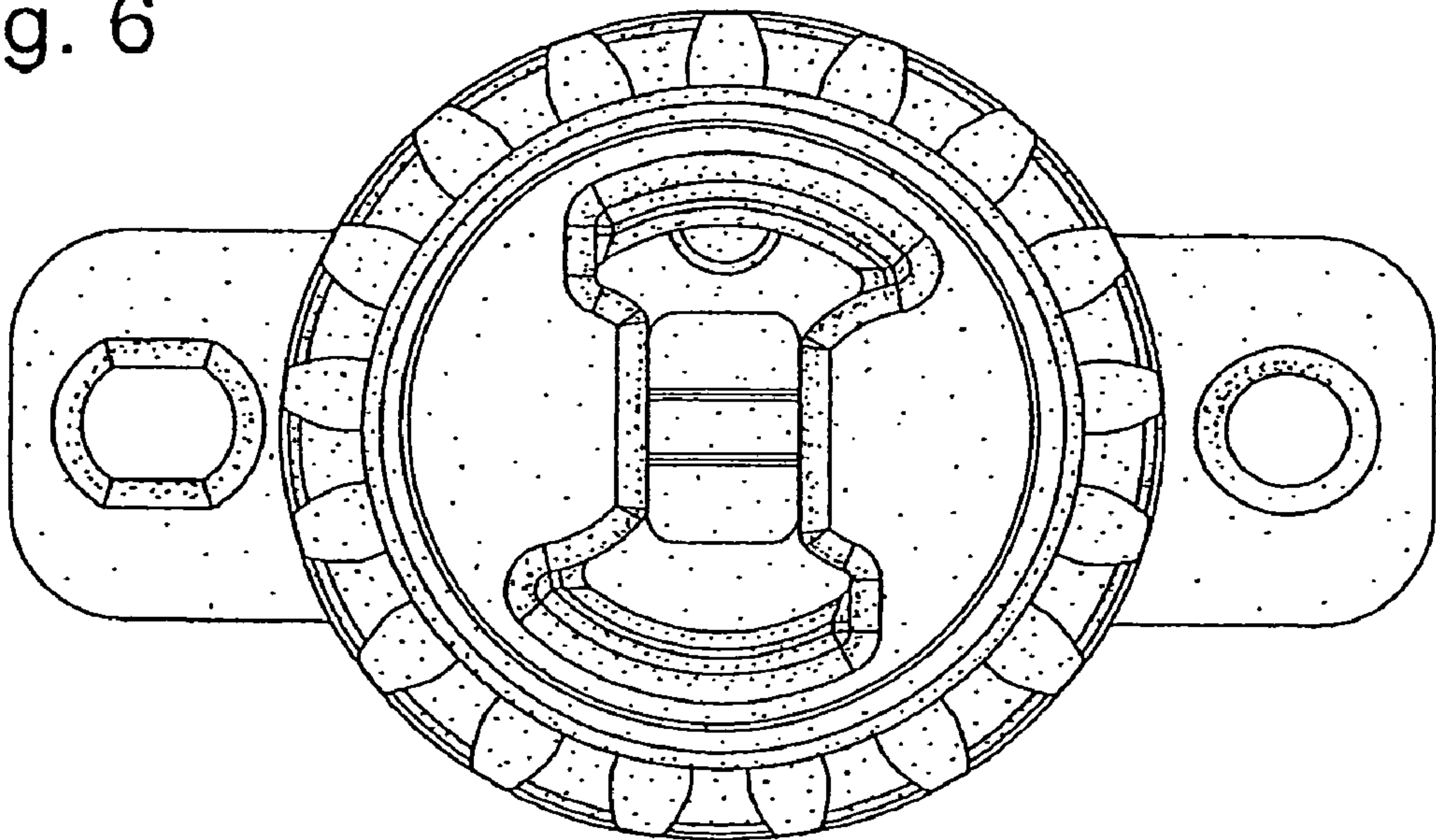


Fig. 7

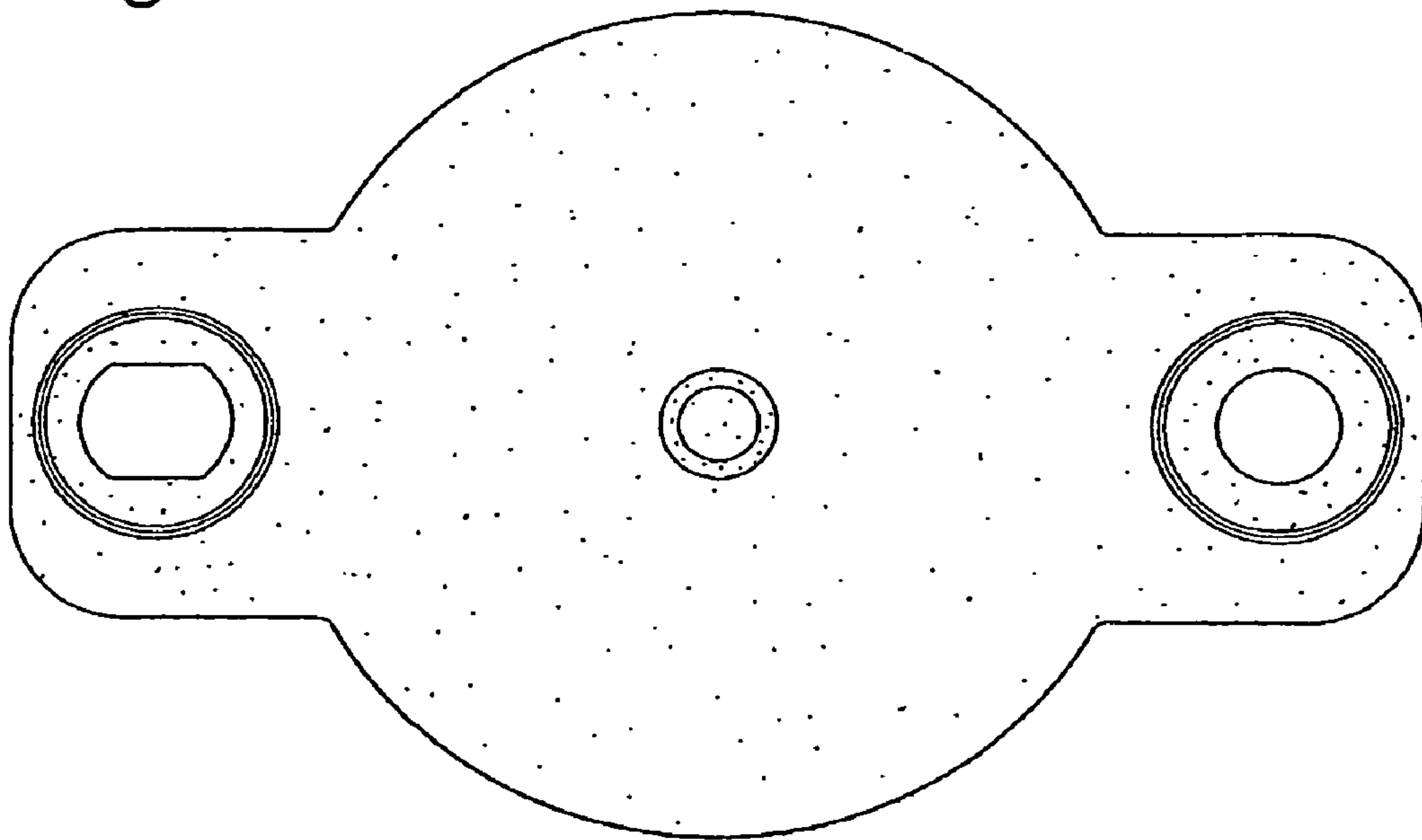


Fig. 8

