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**Root et al.**

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(54) **GROOVED WIRE SUPPORT FOR A PROBE TEST CORE**

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(52) **U.S. Cl.** ..... **D13/182**

(58) **Field of Classification Search** ..... D13/182;  
D7/585; 174/250, 253, 255; 257/690, 692,  
257/697, 695, 748, 786, 773; 361/777; 29/829  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,288,841	A *	9/1981	Gogal .....	361/792
4,495,377	A *	1/1985	Johnson et al. ....	174/268
D319,045	S *	8/1991	Hasegawa et al. ....	D13/182
D320,361	S *	10/1991	Karasawa .....	D10/103
5,091,822	A *	2/1992	Takashima .....	361/695
5,210,682	A *	5/1993	Takashima .....	361/744
6,310,398	B1 *	10/2001	Katz .....	257/773
D548,705	S *	8/2007	Hayashi .....	D13/182
D553,104	S *	10/2007	Oohashi et al. ....	D13/182
D570,310	S *	6/2008	Sasaki .....	D13/182
D588,290	S *	3/2009	Coushaine et al. ....	D26/28
D589,471	S *	3/2009	Komatsu .....	D13/182

D601,521	S *	10/2009	Komatsu .....	D13/182
D609,652	S *	2/2010	Nagasaka et al. ....	D13/182
D610,101	S *	2/2010	Spivey .....	D13/182
D616,389	S *	5/2010	Takahashi .....	D13/182
D628,170	S *	11/2010	Maruyama et al. ....	D13/182
D639,755	S *	6/2011	Root et al. ....	D13/182
D639,757	S *	6/2011	Root et al. ....	D13/182
7,974,103	B2 *	7/2011	Lim et al. ....	361/777

\* cited by examiner

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(57) **CLAIM**

The ornamental design for a grooved wire support for a probe test core, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a grooved wire support for a probe test core and showing the claimed design in an unclaimed environment of a bottom of a probe test core.

FIG. 2 is a bottom view thereof;

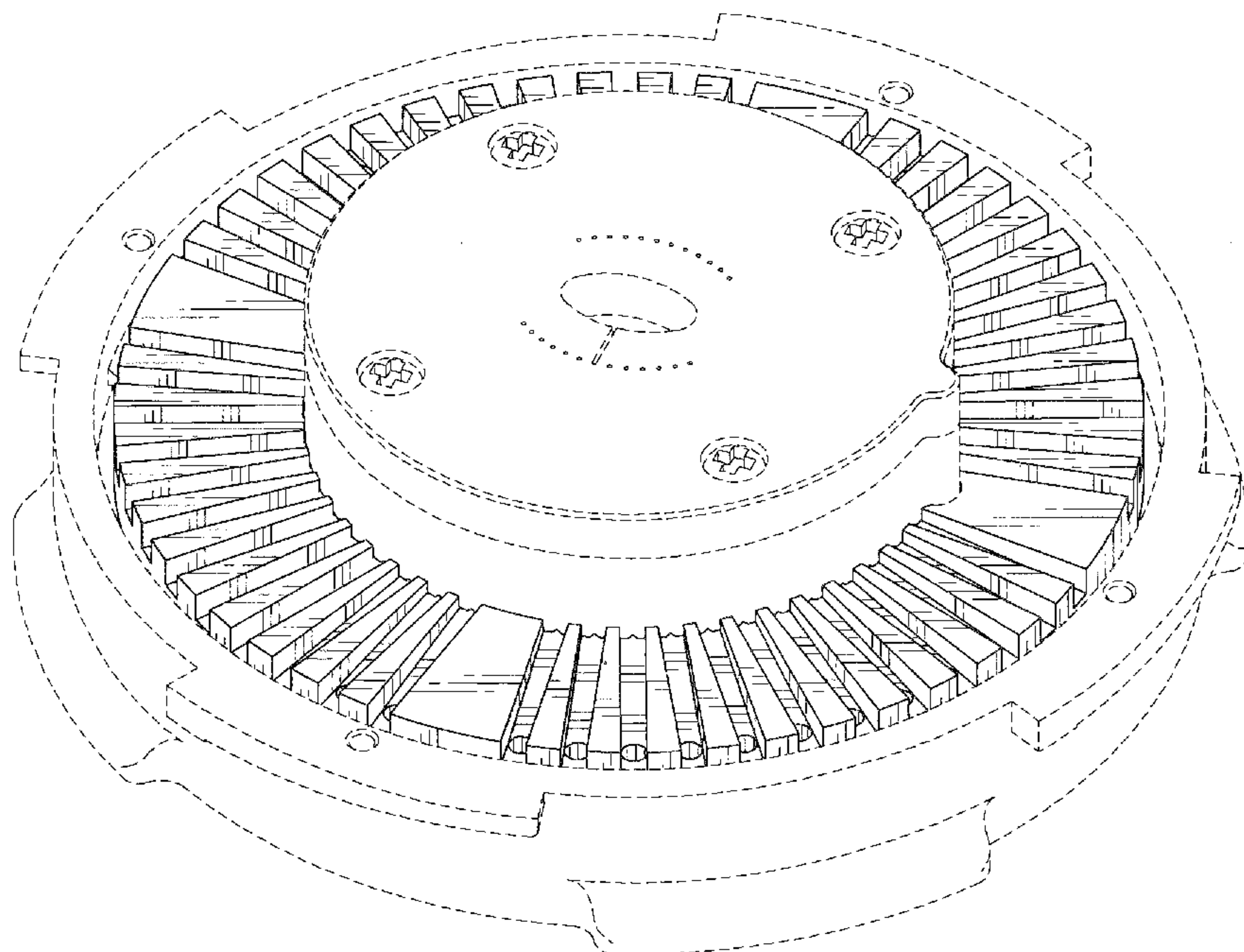
FIG. 3 is side view that shows some unclaimed environment of the probe test core shown in FIG. 1; and,

FIG. 4 is a top view showing the unclaimed environment of the top of the probe test core shown in FIG. 1.

Surface shading in the FIGS. 1 and 2 is provided to show the character and contour of surfaces of three-dimensional aspects of the design.

The broken line showing is for environmental purposes only and forms no part of the claimed design.

**1 Claim, 3 Drawing Sheets**



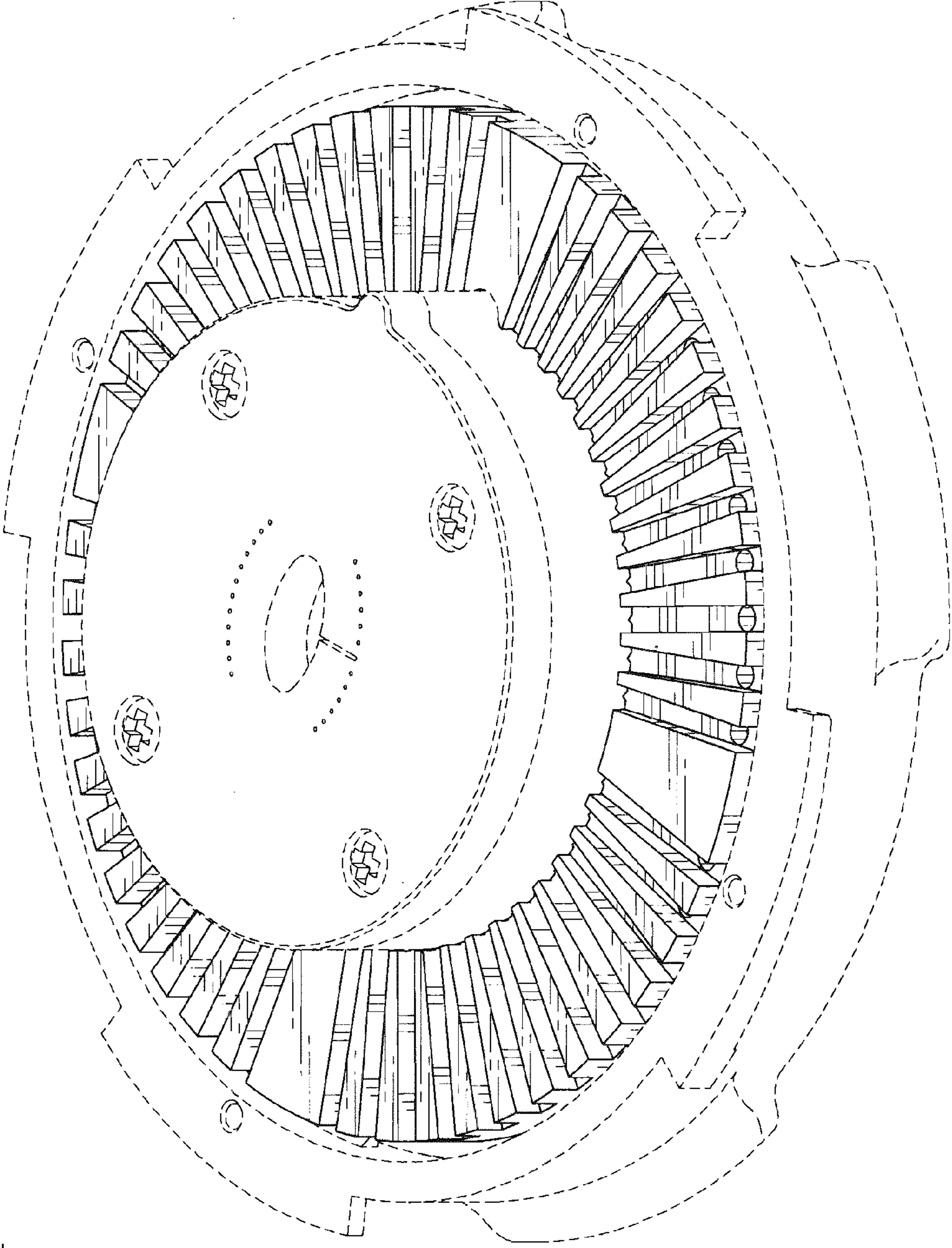
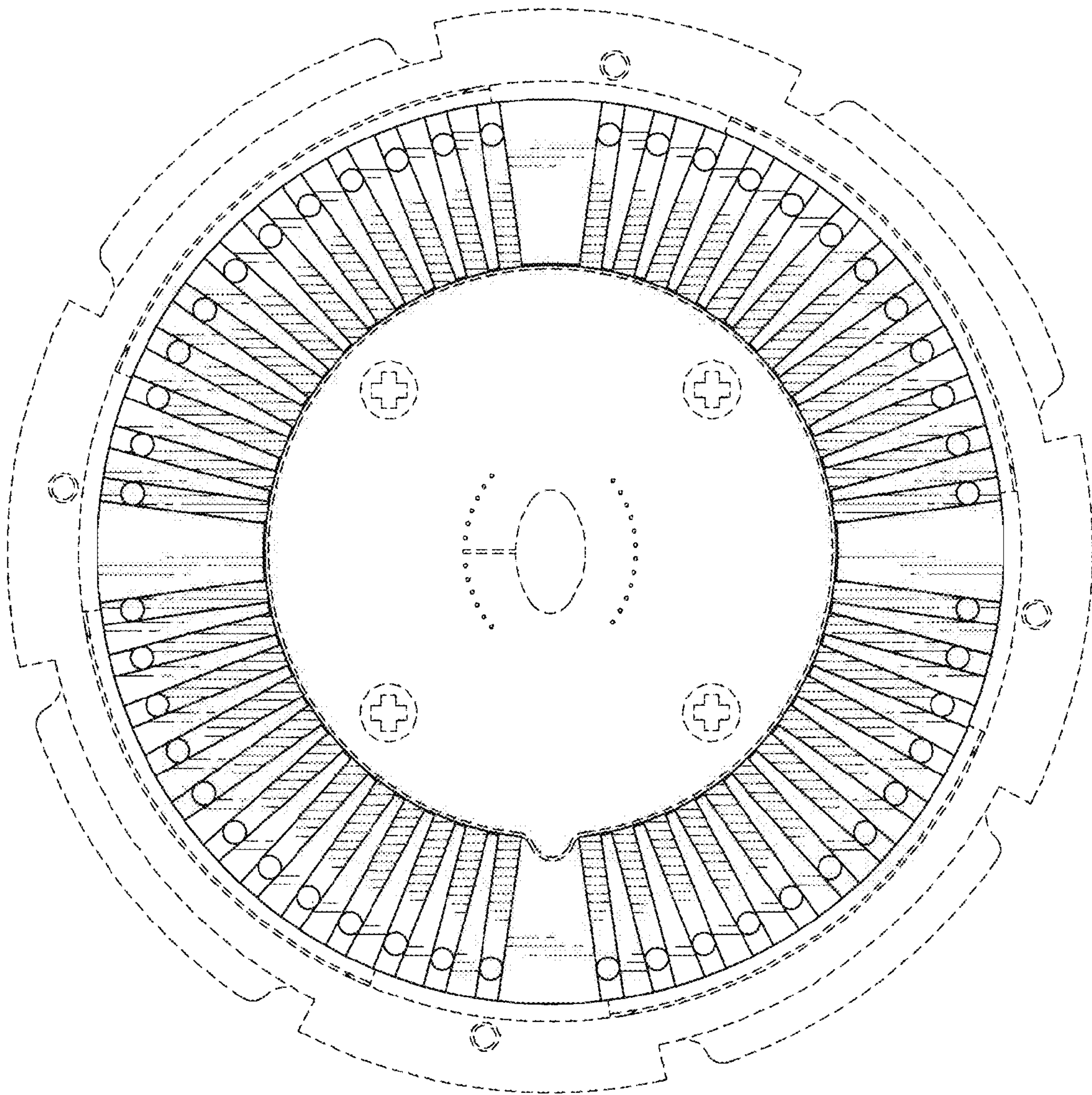


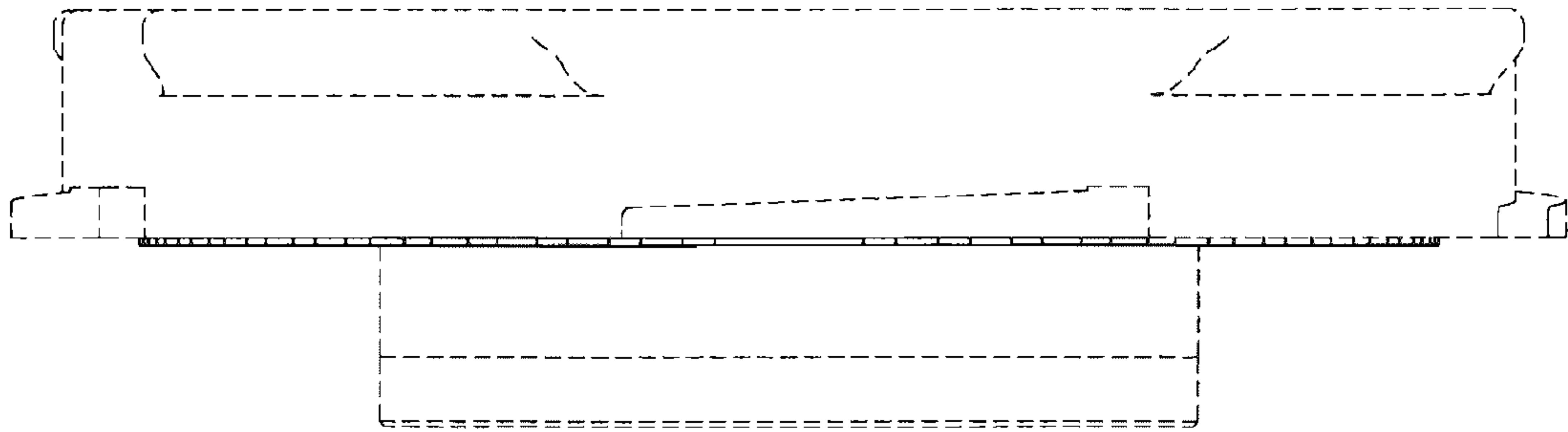
Fig. 1



*Fig. 2*



*Fig. 3*



*Fig. 4*

