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

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(54) **DIRECTIONAL BORING BIT**

2003/0024741 A1* 2/2003 Wentworth et al. 175/73
2008/0011890 A1* 1/2008 Young 241/195

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* cited by examiner

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

(21) Appl. No.: **29/315,572**

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(51) **LOC (9) Cl.** **15-09**

(52) **U.S. Cl.** **D15/139; D15/138**

(58) **Field of Classification Search** D8/70;
D15/123, 126, 138, 139, 140; 175/19, 61,
175/62, 296, 398; 241/73, 74, 189.1, 193-197,
241/294, 300

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

RE37,450 E * 11/2001 Deken et al. 175/62
6,321,858 B1 * 11/2001 Wentworth et al. 175/61
7,419,109 B1 * 9/2008 Ronfeldt et al. 241/189.1
D588,174 S * 3/2009 Young D15/123
7,559,497 B2 * 7/2009 Young 241/194
2001/0047887 A1* 12/2001 Wentworth et al. 175/296

(57) **CLAIM**

The ornamental design for a directional boring bit, as shown and described.

DESCRIPTION

FIG. 1 is a front top left perspective view of a directional boring bit;

FIG. 2 is a front bottom left perspective view thereof;

FIG. 3 is a top plan view thereof;

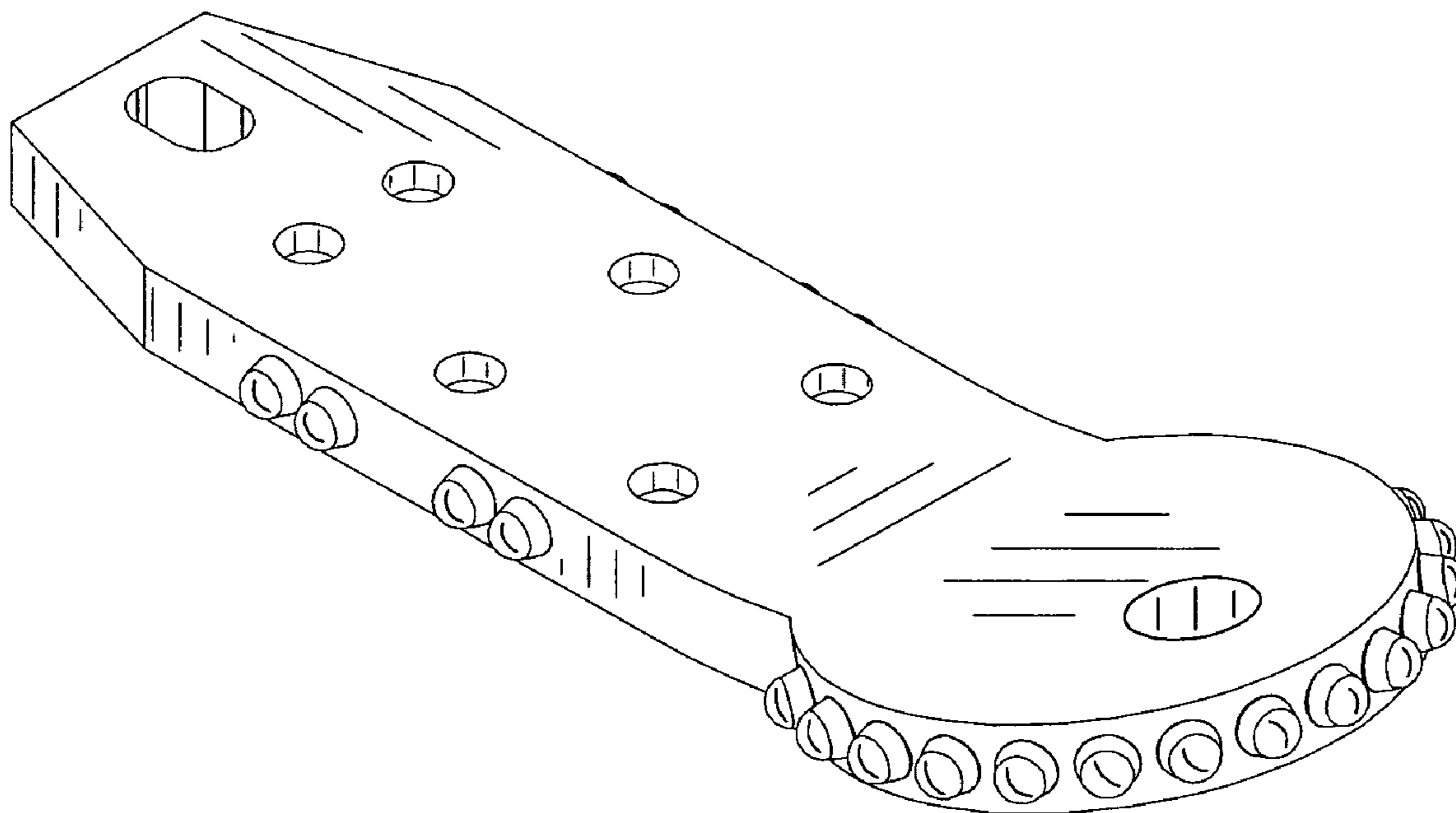
FIG. 4 is a bottom plan view thereof;

FIG. 5 is a left side elevation view thereof, a right side elevation view being a mirror image;

FIG. 6 is a front view thereof; and,

FIG. 7 is a rear view thereof.

1 Claim, 4 Drawing Sheets



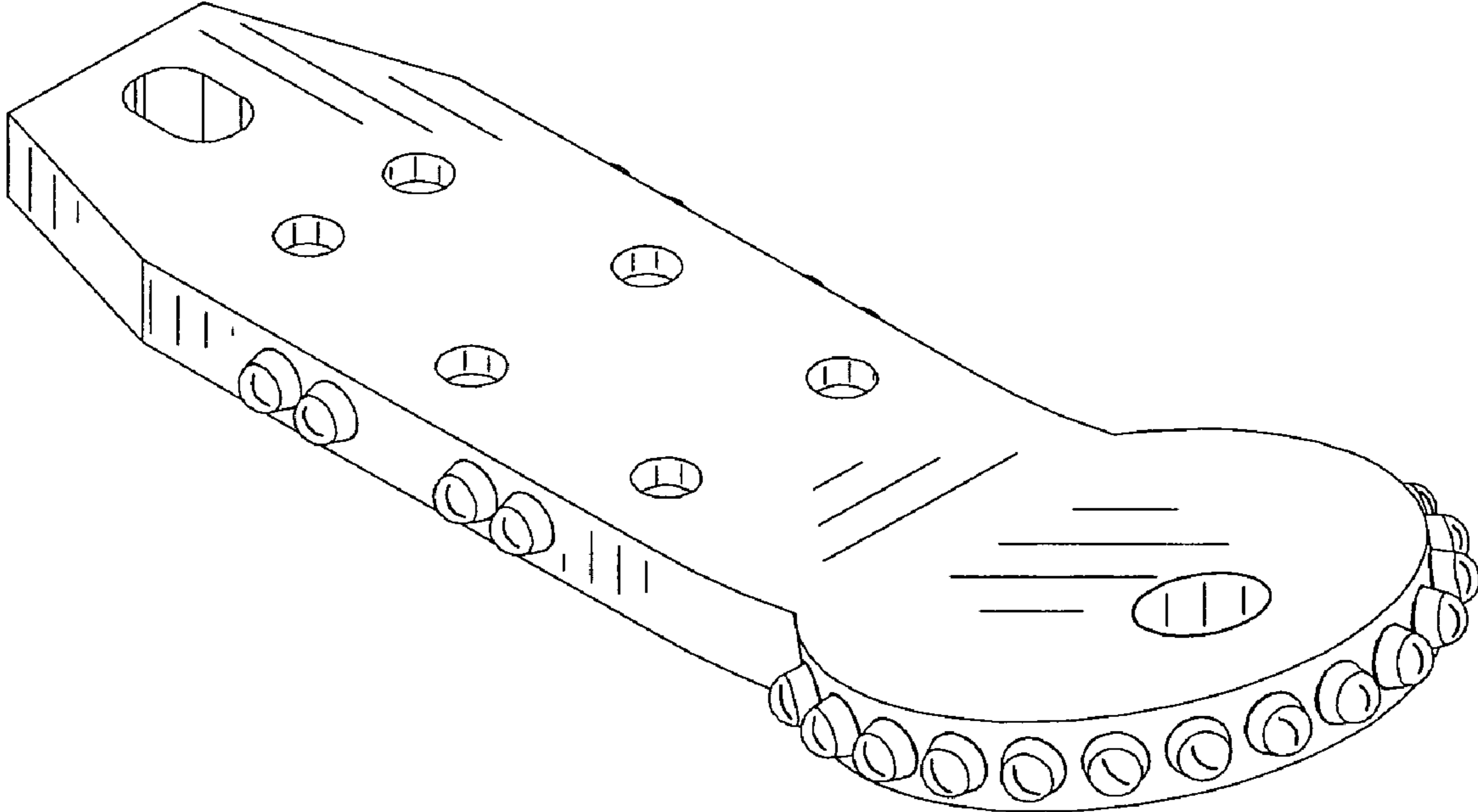


Fig. 1

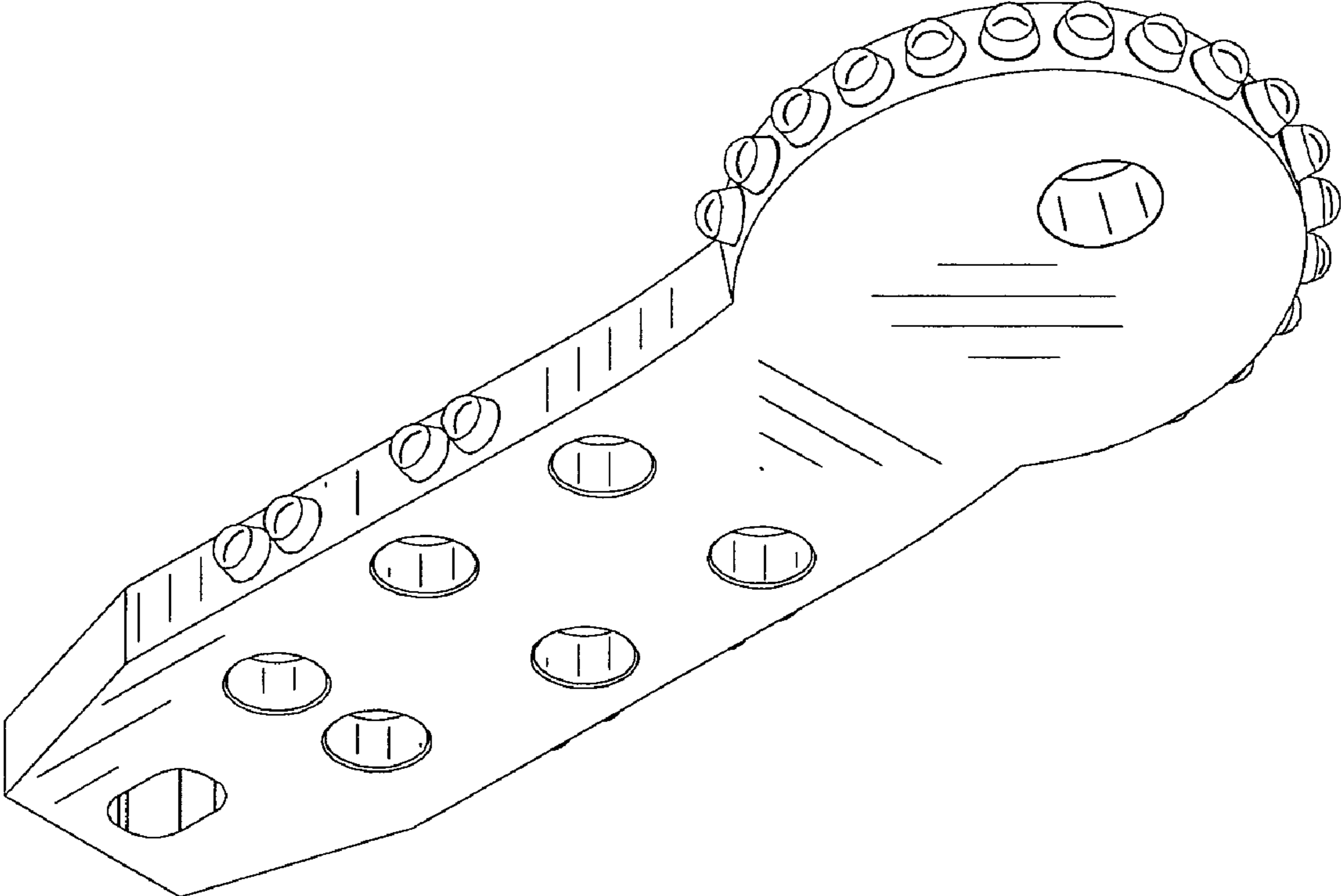


Fig. 2

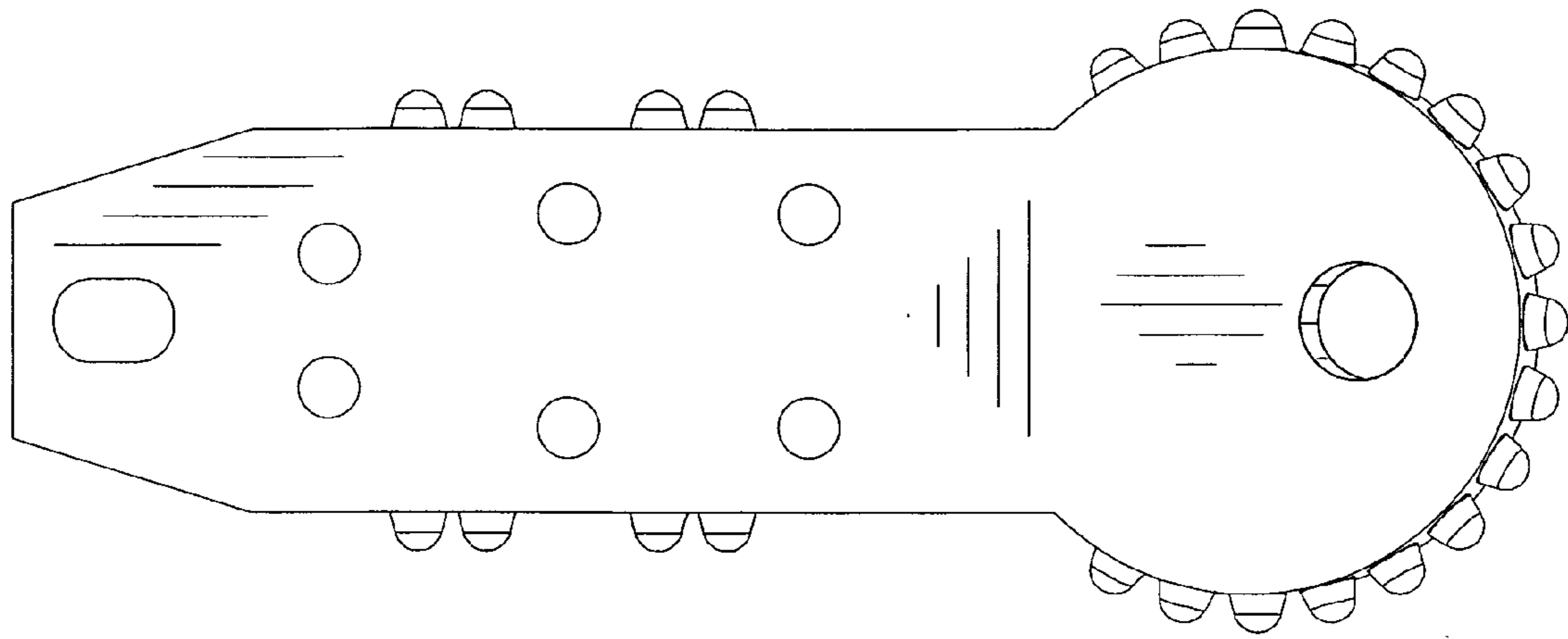


Fig. 3

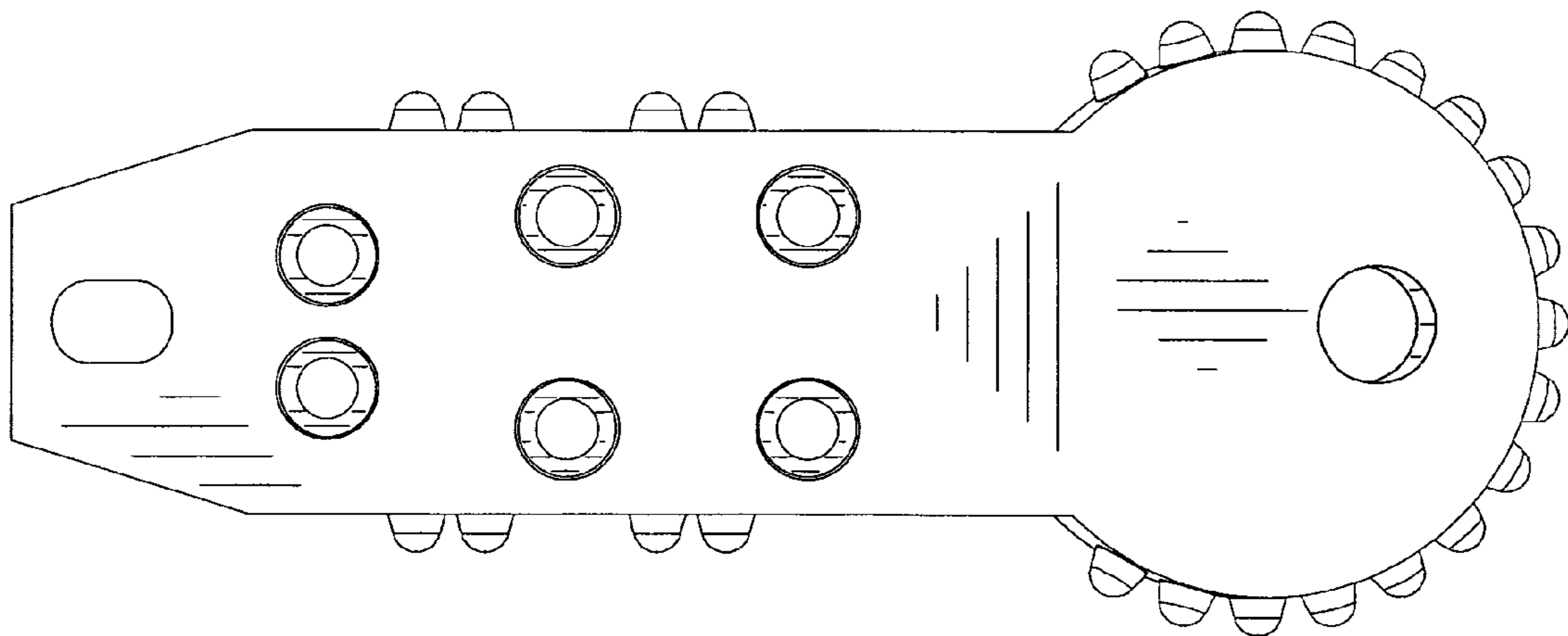


Fig. 4

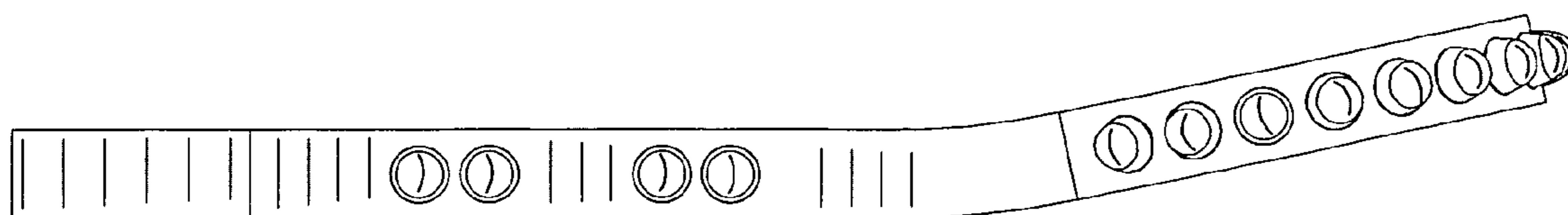


Fig. 5

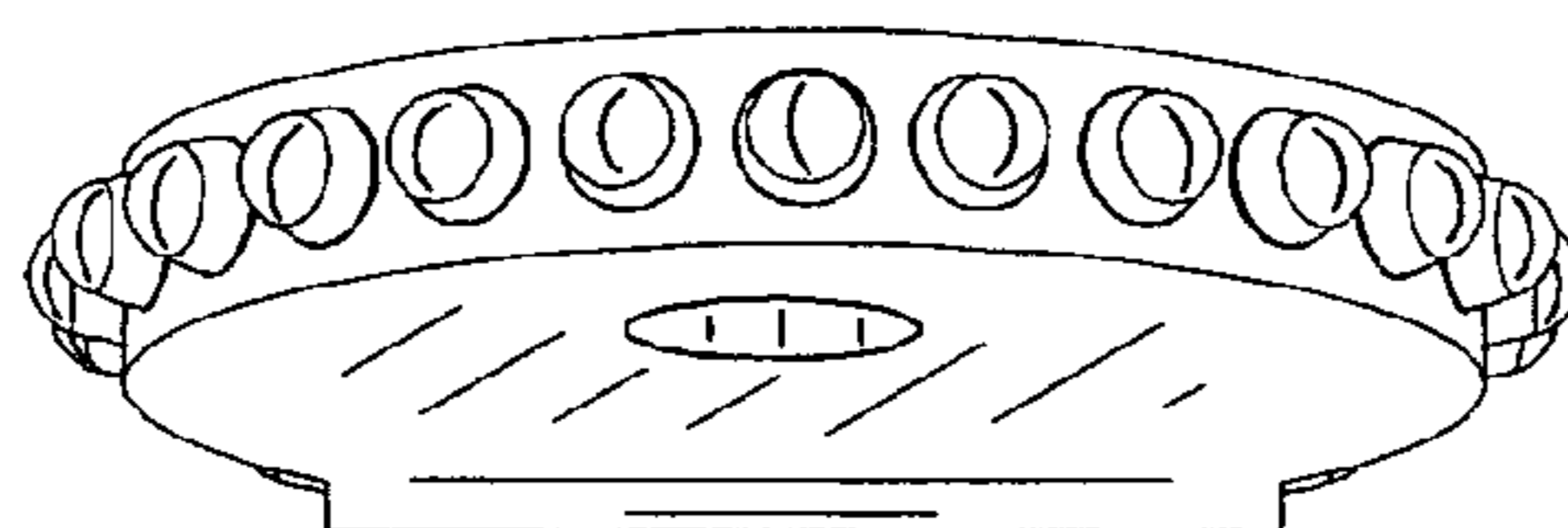


Fig. 6

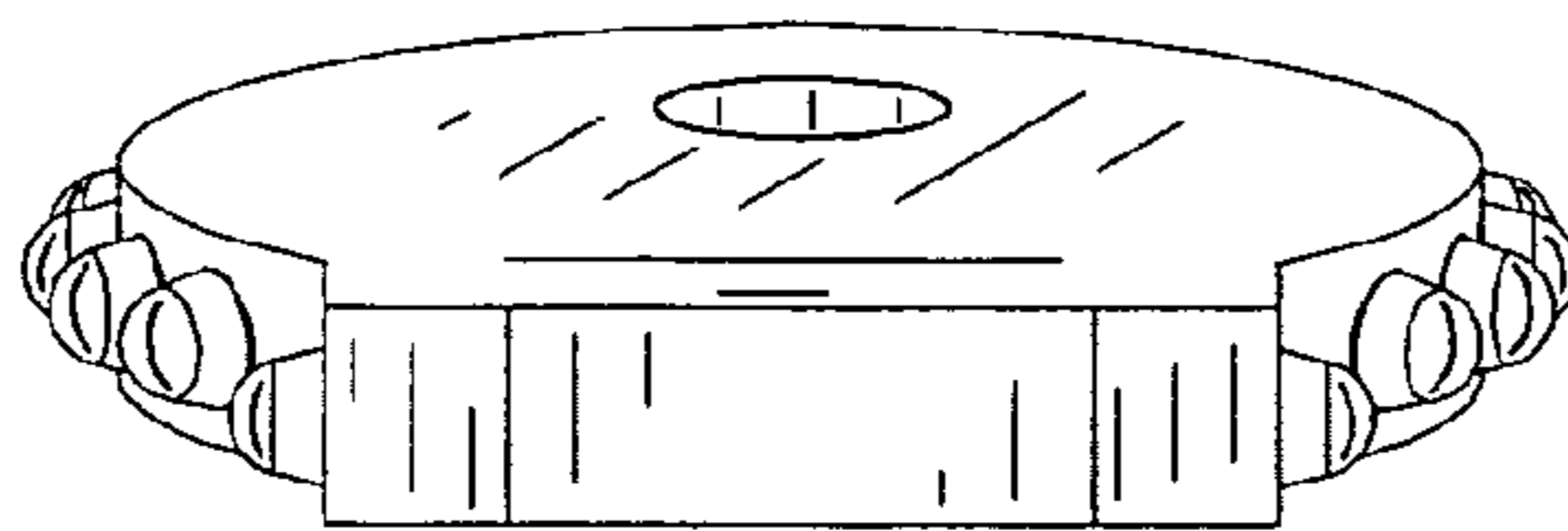


Fig. 7