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

(10) **Patent No.:** **US D619,481 S**
(45) **Date of Patent:** **** Jul. 13, 2010**

(54) **REFERENCE MEMBER FOR INSPECTION
MASTER IN OPTICAL
THREE-DIMENSIONAL MEASURING
MACHINE**

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (9) Cl.** **10-04**

(52) **U.S. Cl.** **D10/63**

(58) **Field of Classification Search** D10/63;
33/502, 503; 73/1.79

See application file for complete search history.

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(57) **CLAIM**

The ornamental design for reference member for inspection master in optical three-dimensional measuring machine, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a reference member for inspection master in optical three-dimensional measuring machine showing my new design;

FIG. 2 is a front elevational view thereof, the rear elevational view being identical to the front elevational view;

FIG. 3 is a right side elevational view thereof, the left side elevational view being identical to the right side elevational view;

FIG. 4 is a top plan view thereof; and

FIG. 5 is a bottom plan view thereof.

FIG. 6 is a cross-sectional view thereof taken on plane 6—6 in FIG. 4;

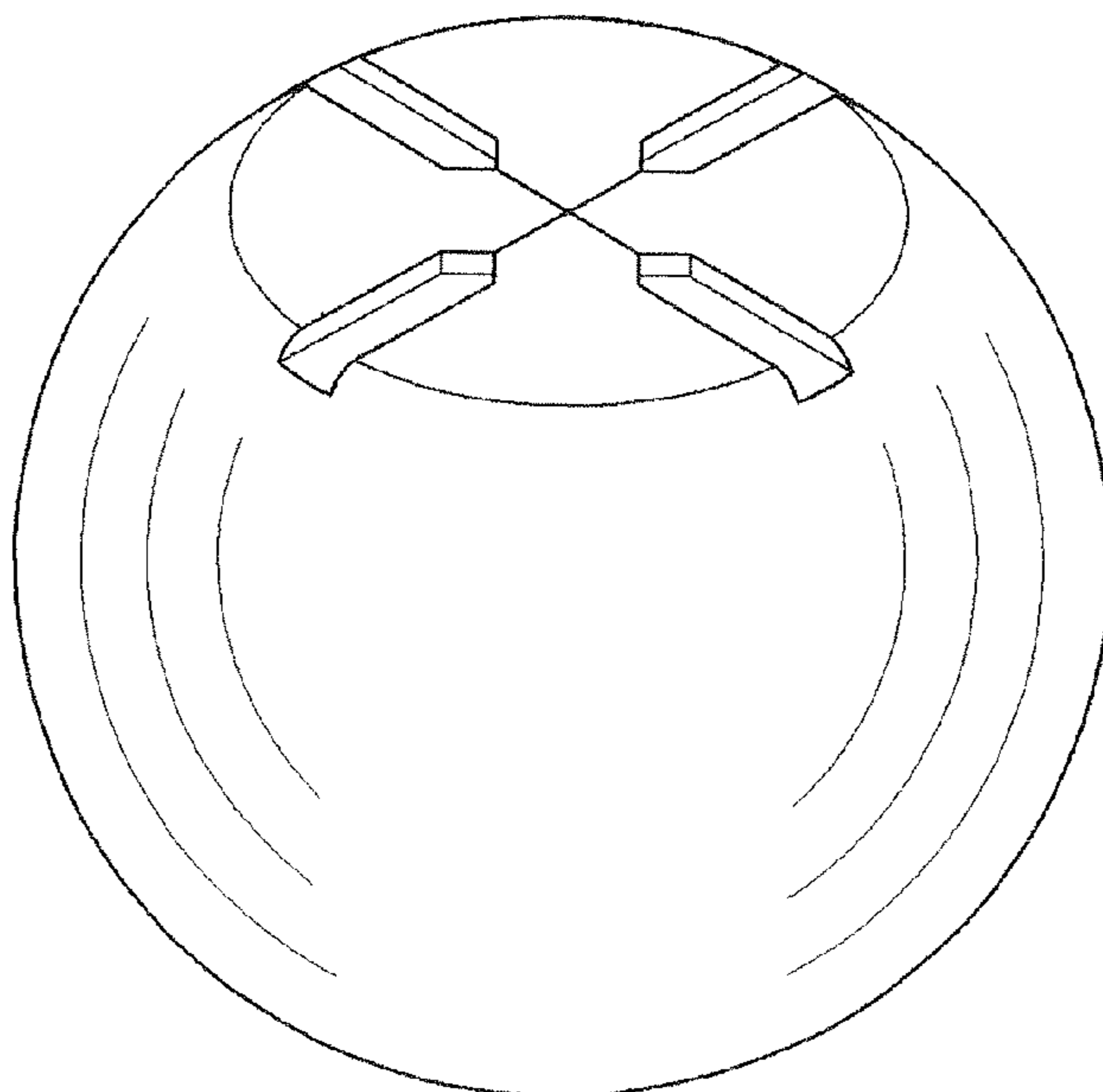
FIG. 7 is a perspective view showing multiple reference members in an optical three-dimensional measuring machine; and,

FIG. 8 is a perspective view showing multiple reference members on an inspection master.

The optical three-dimensional measuring machine in FIG. 7 and the multiple reference members and inspection master in FIG. 8 are shown in broken lines for illustrative purposes only and forms no part of the claimed design.

The claimed design is used as a component of an inspection master for checking accuracy and calibrating measurement error in an optical three-dimensional measuring machine, and includes a surface to be measured that reflects a measurement beam emitted by the three-dimensional measuring machine.

1 Claim, 5 Drawing Sheets



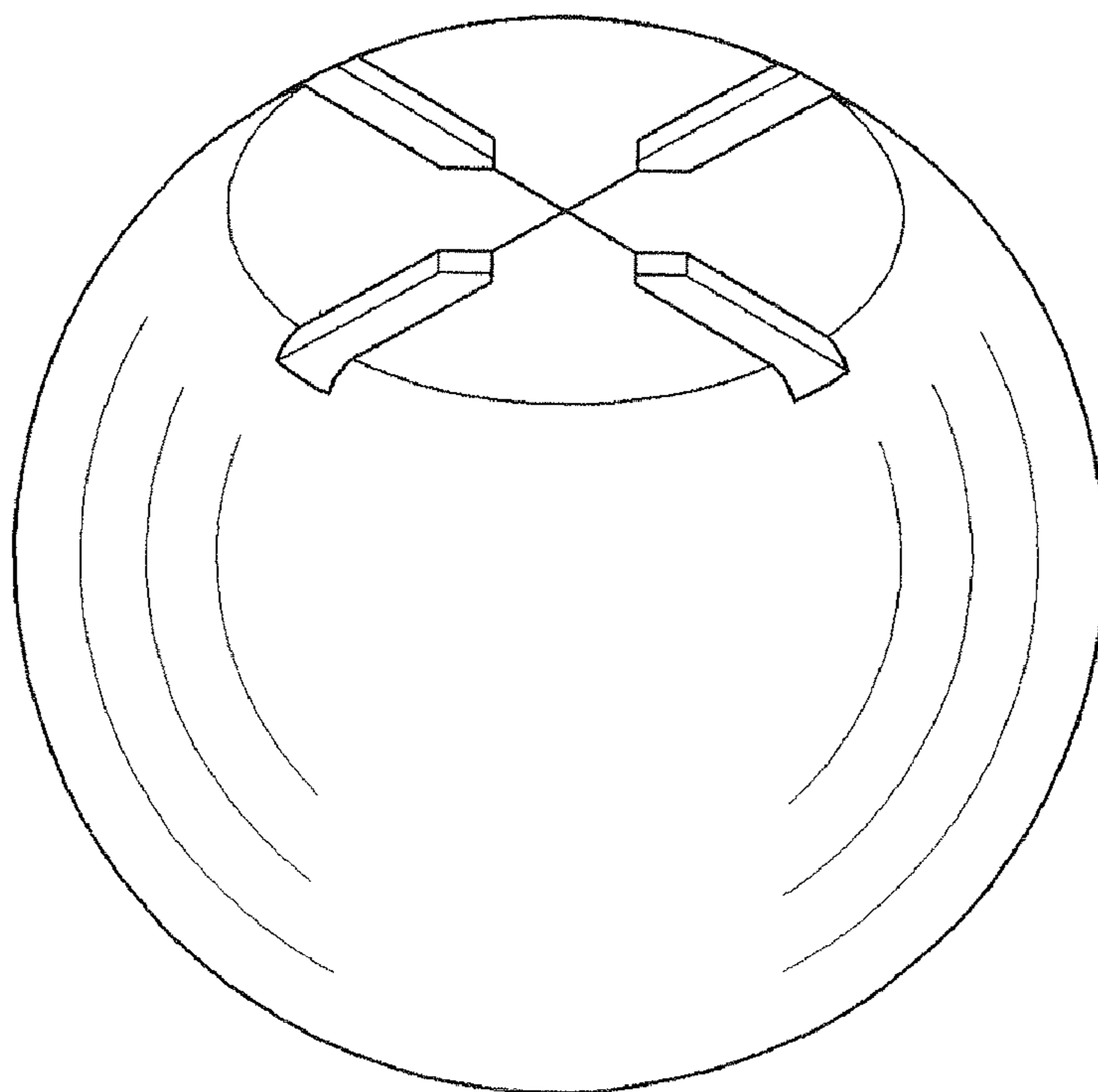


Fig. 1

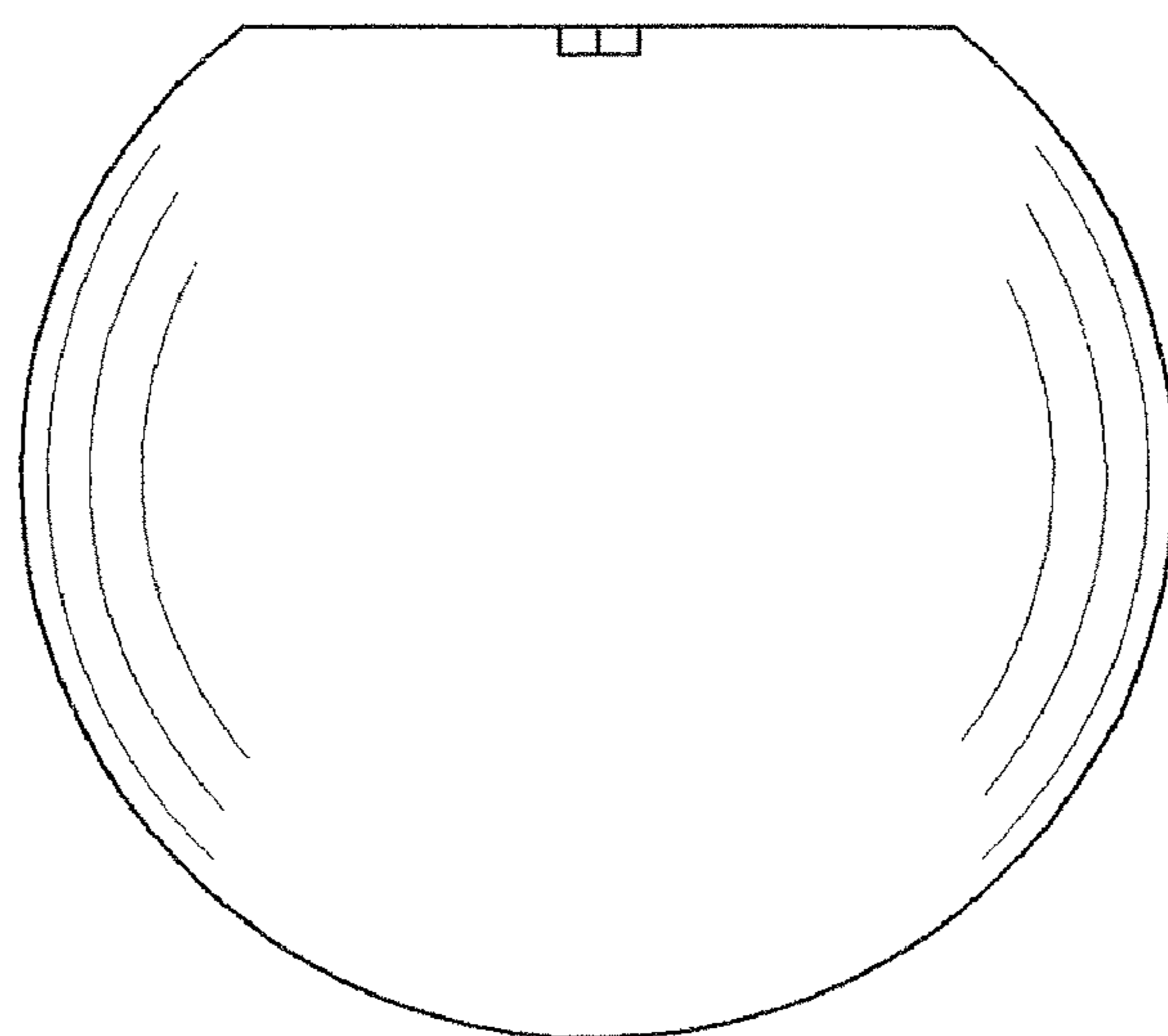


Fig. 2

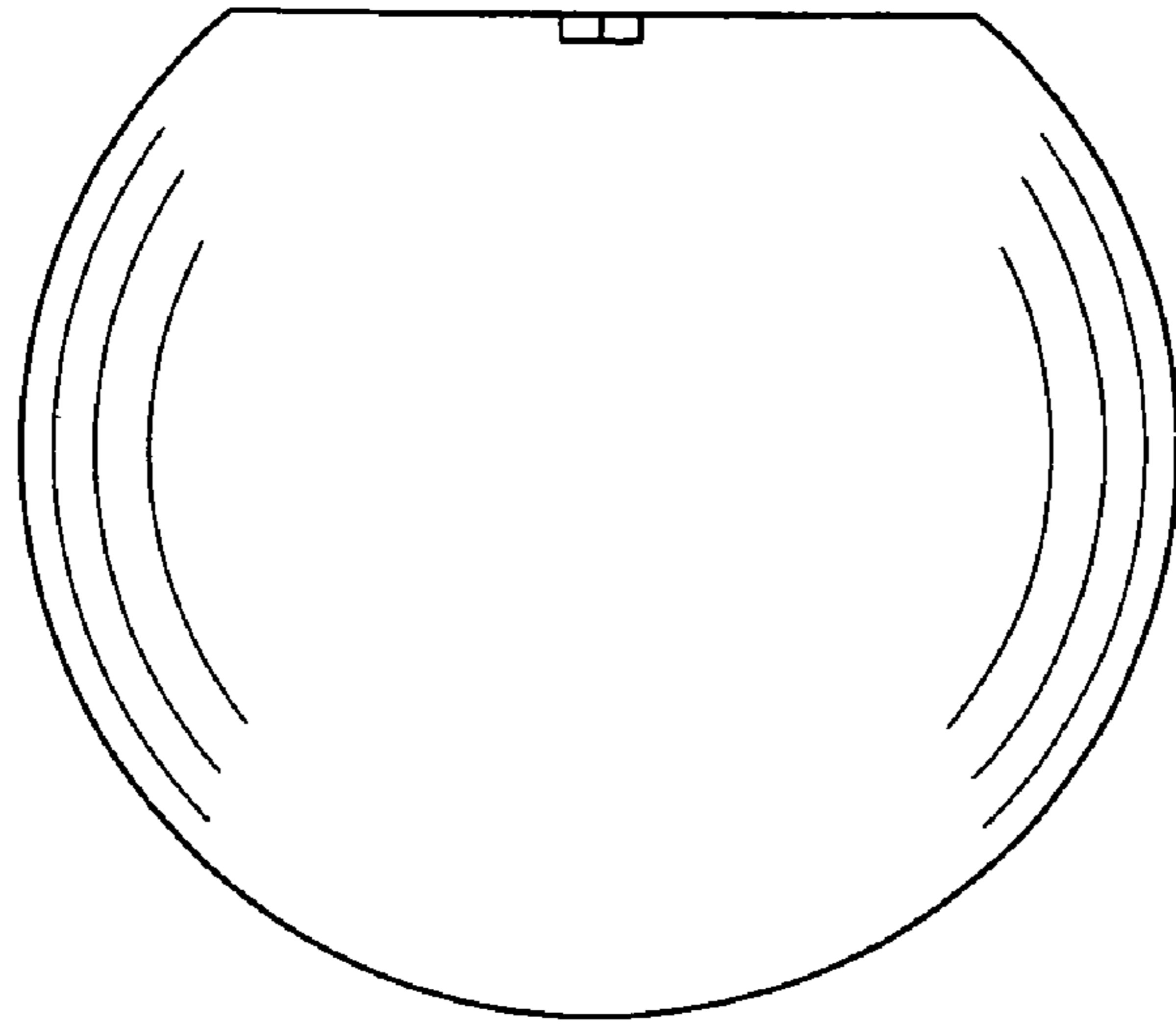


Fig. 3

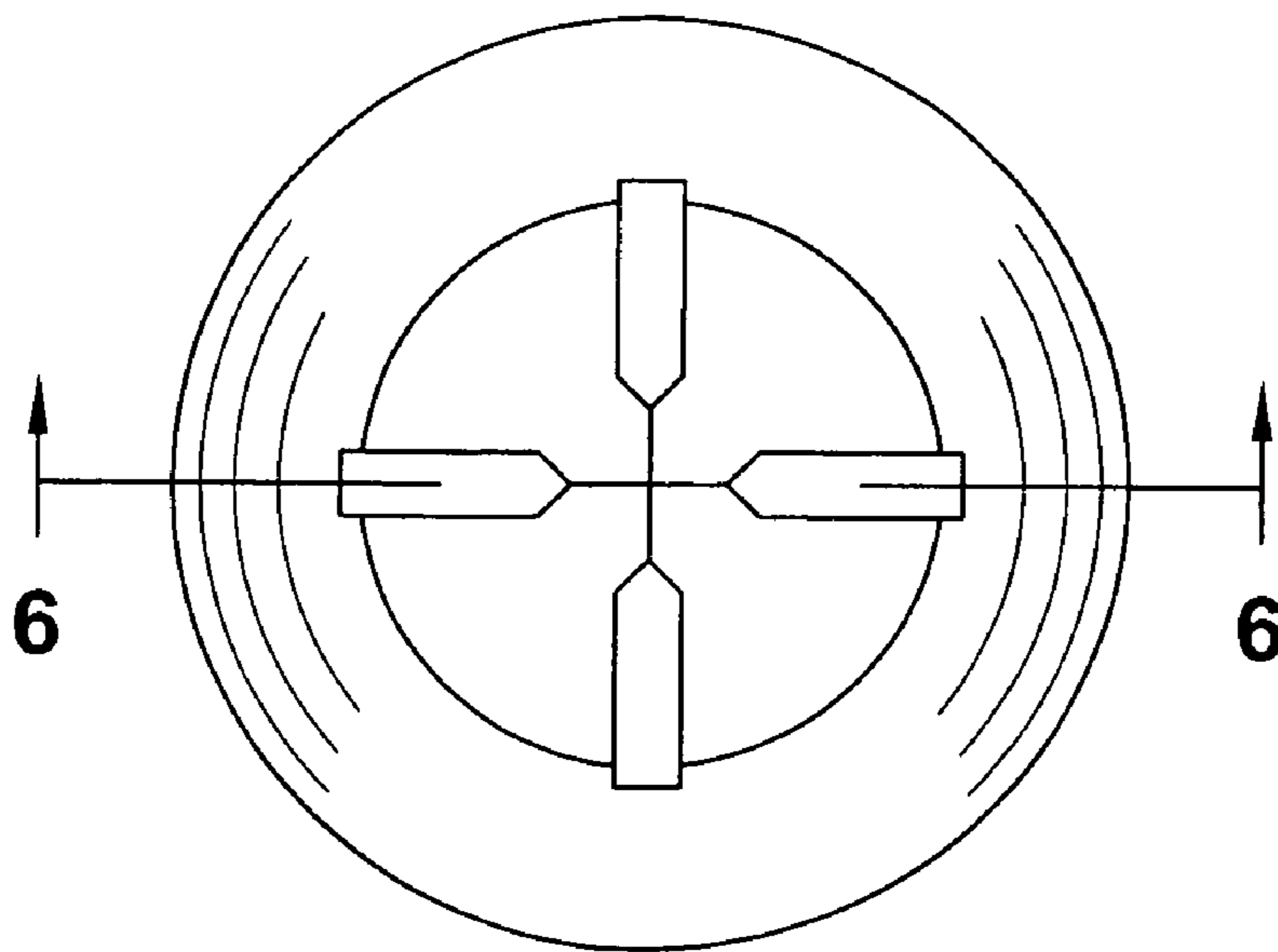


Fig. 4

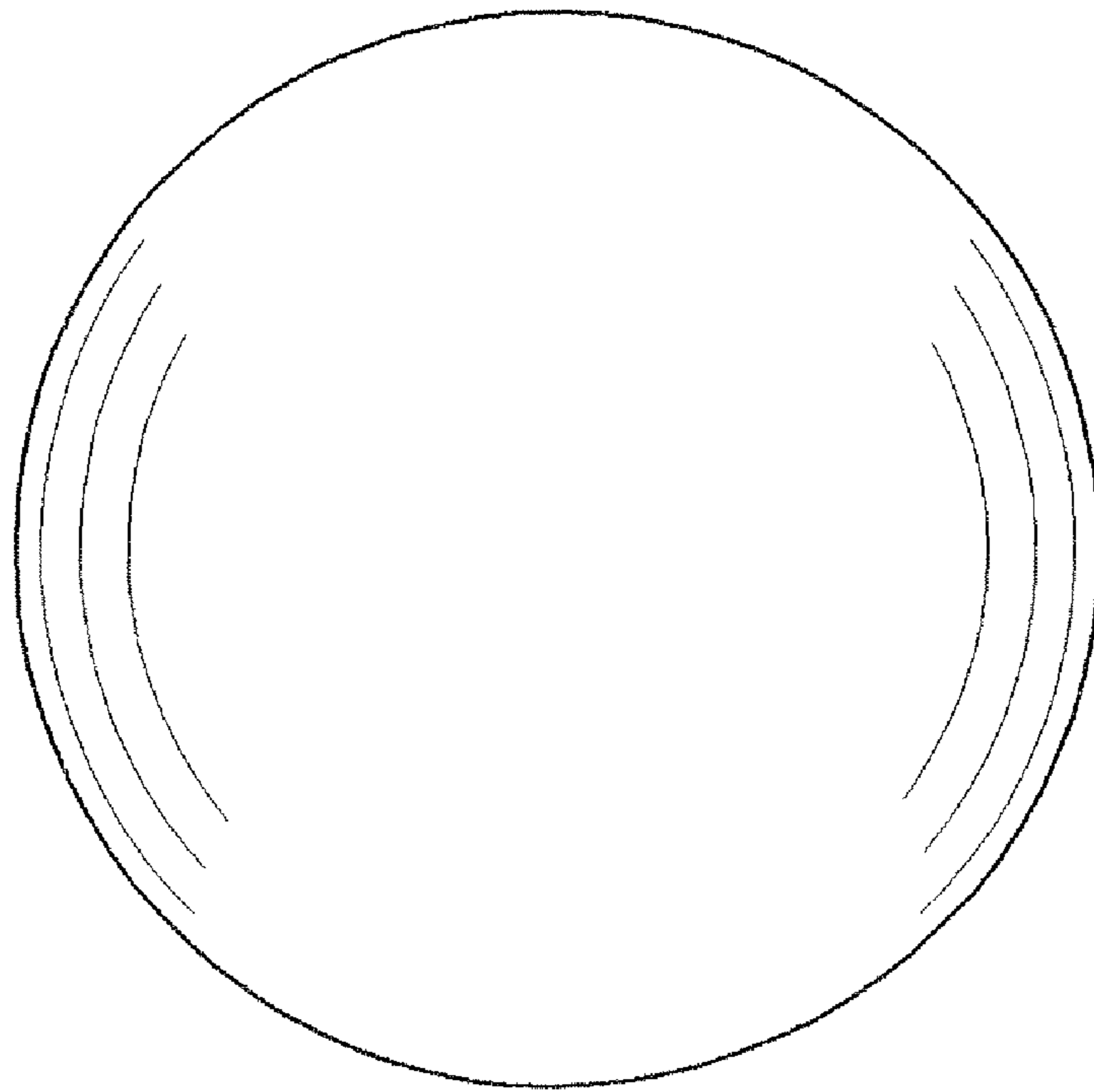


Fig. 5

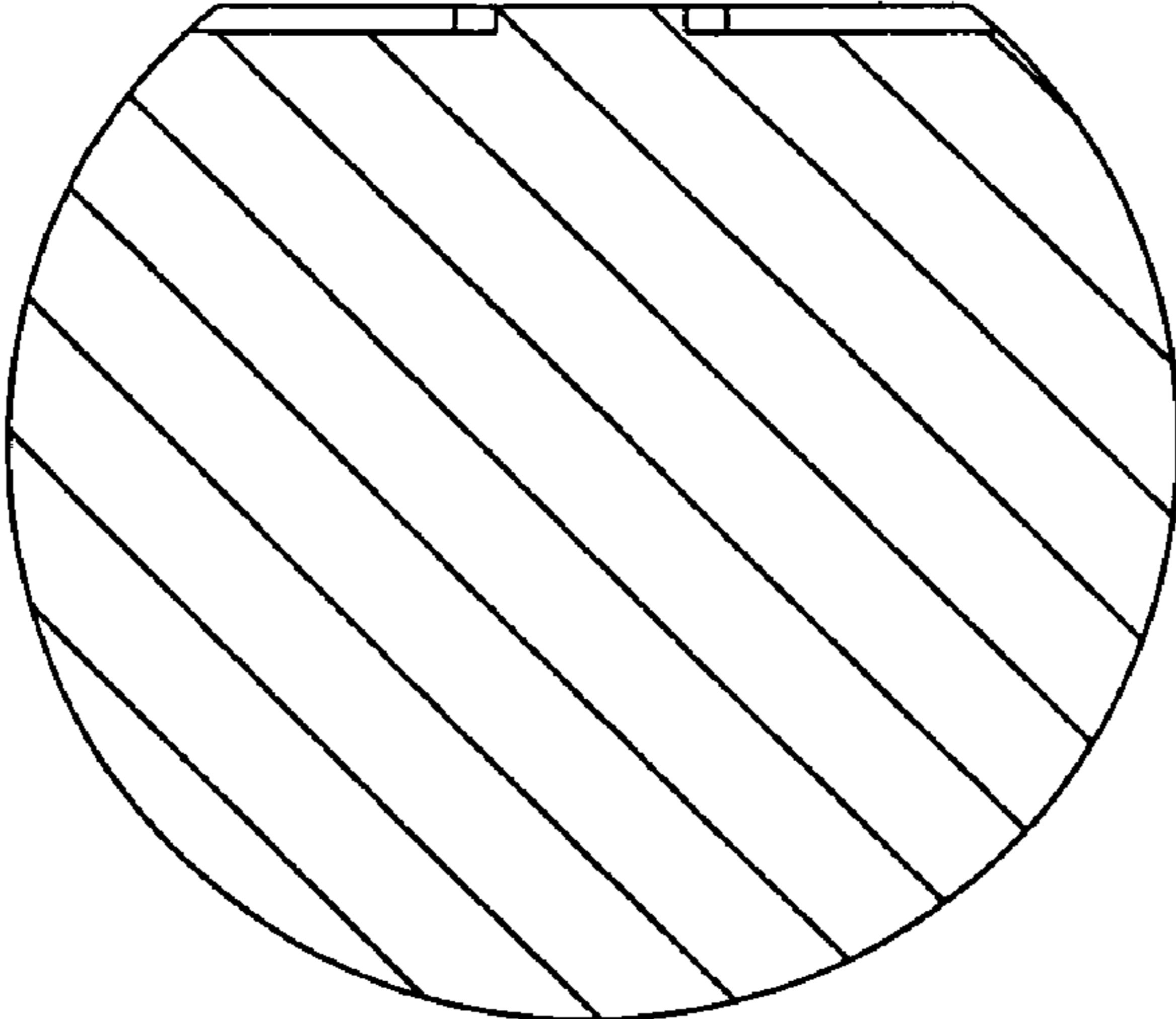


Fig. 6

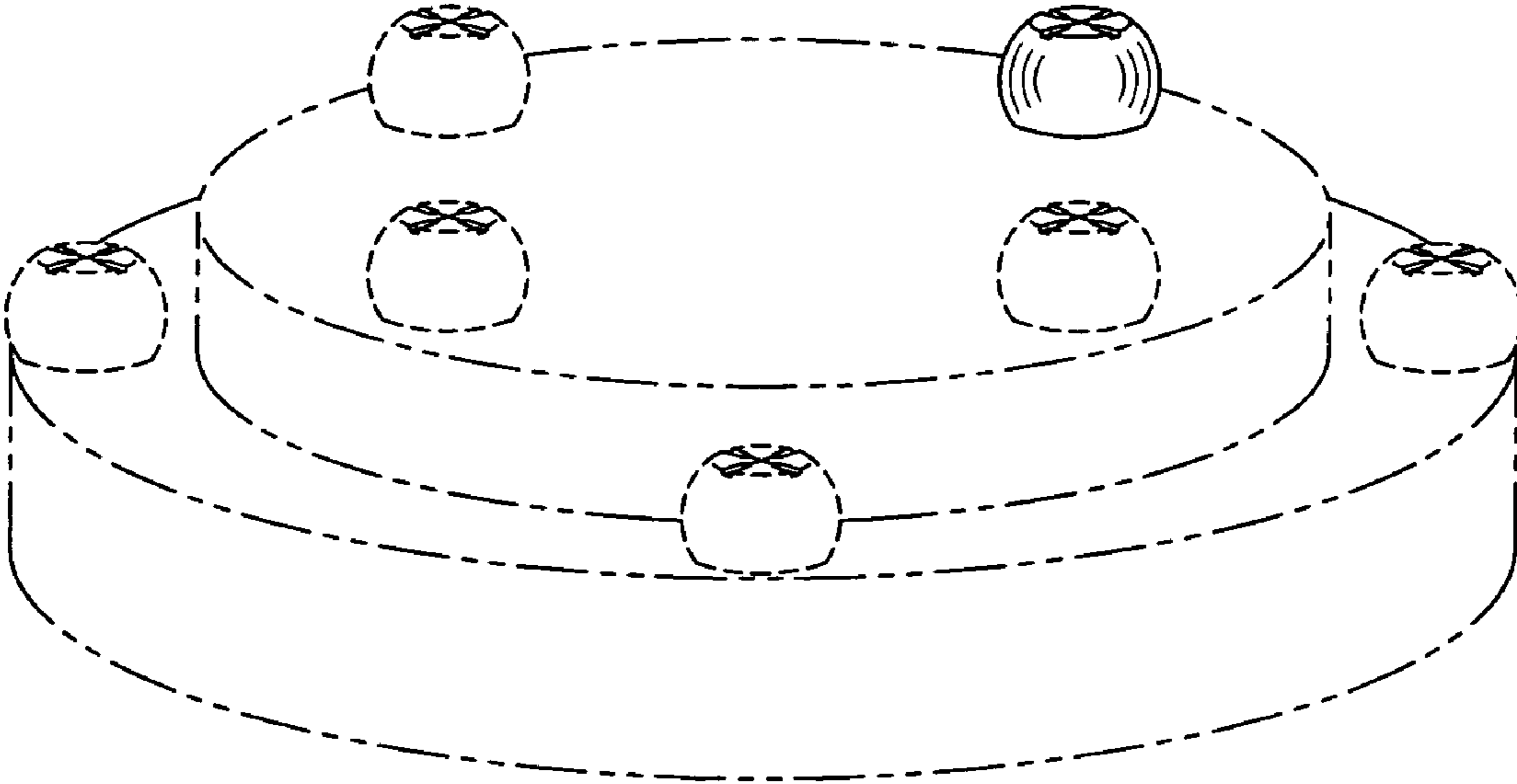


Fig. 8

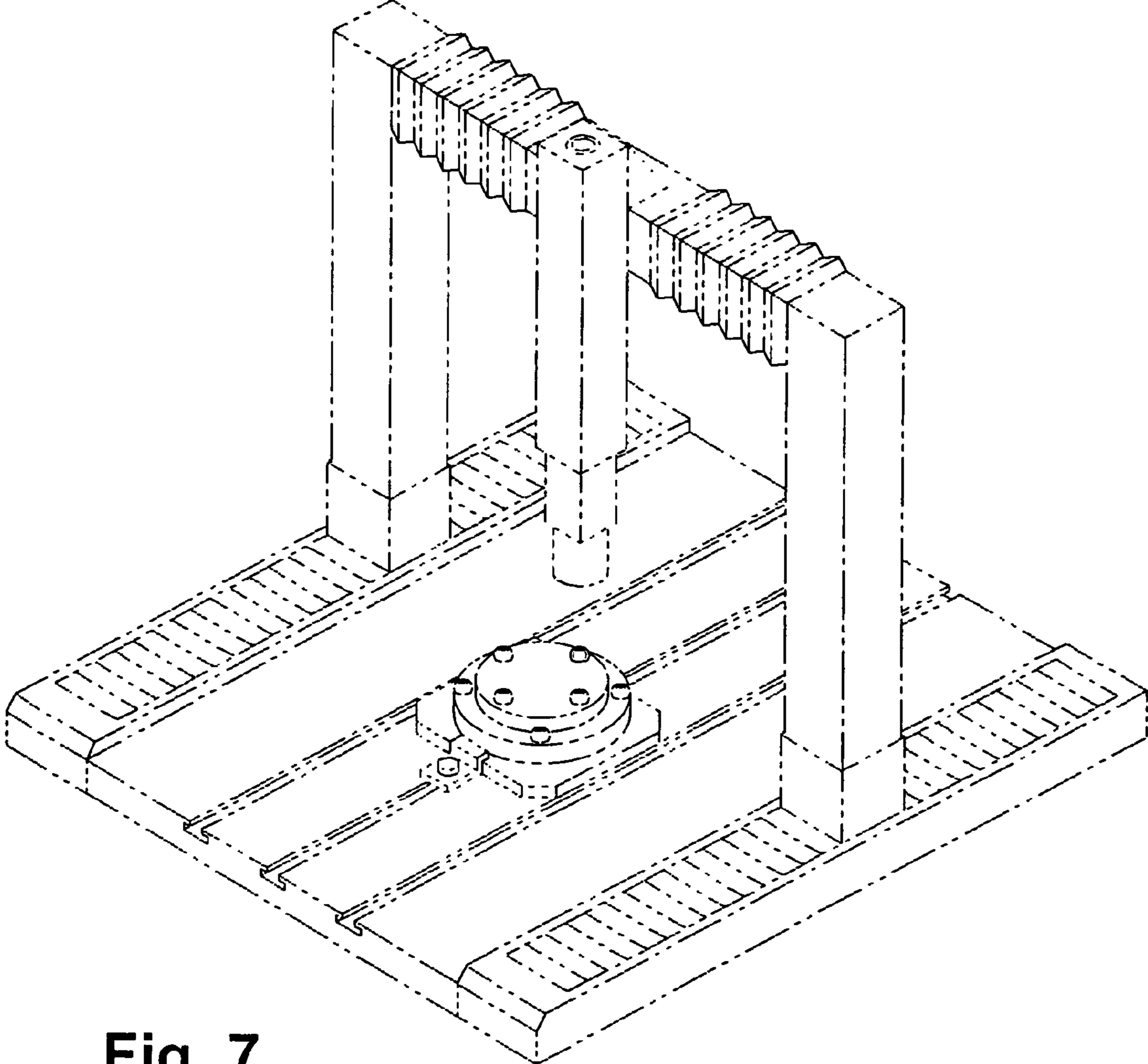


Fig. 7