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

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(54) **BOLTLESS UNITARY RING GEAR-FLANGE BODY**

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(71) Applicant: **NPC Robotics Corporation**, Mound, MN (US)

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(72) Inventors: **Richard Reid**, Eden Prairie, MN (US);
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Light Single Row Ball Slewing Bearing, available in m.made-in-china.com/, announced Year 2008 [online], [site visited Aug. 22, 2022], Internet URL:https://m.made-in-china.com/product/Light-Single-Row-Ball-Slewing-Bearings-Turntable-Bearings-with-Internal-Teeth-Rk6-33n1z-775742772.html# (Year: 2008).*

(73) Assignee: **NPC Robotics Corporation**, Mound, MN (US)

(Continued)

(**) Term: **15 Years**

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(21) Appl. No.: **29/772,183**

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(51) **LOC (14) Cl.** **15-09**

(57) **CLAIM**

(52) **U.S. Cl.**
USPC **D15/138**

The ornamental design for a boltless unitary ring gear-flange body, as shown and described.

(58) **Field of Classification Search**

DESCRIPTION

USPC D15/138, 141, 148
CPC . F16H 1/00; F16H 57/02; F03D 15/10; F03D 80/70; F16C 3/02; F16C 11/00; F16C 11/10

See application file for complete search history.

FIG. 1 is an upper perspective view of a boltless unitary ring gear-flange body showing the new design;
FIG. 2 is a lower perspective view of the boltless unitary ring gear-flange body of FIG. 1;
FIG. 3 is a top plan view of the boltless unitary ring gear-flange body of FIG. 1;
FIG. 4 is a side elevation view of the boltless unitary ring gear-flange body of FIG. 1, the opposite side being a mirror image thereof; and,
FIG. 5 is a bottom plan view of the boltless unitary ring gear-flange body of FIG. 1.

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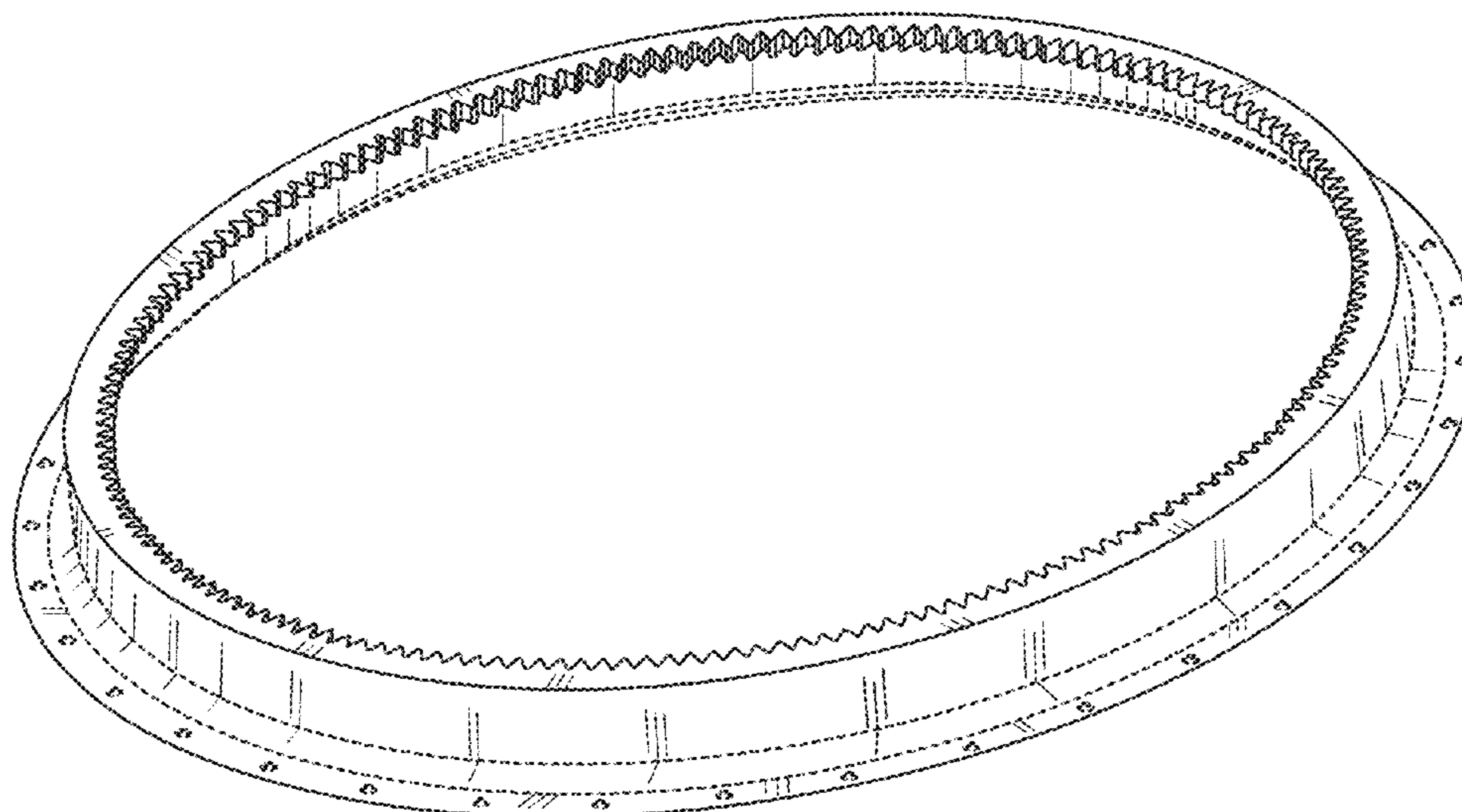
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In an illustrative example, the claimed ornamental design may operate to rotate a body when coupled thereto and driven, for example, by at least one mating drive mechanism. The broken lines shown in the drawings illustrate unclaimed portions of the claimed design and form no part of the claimed design.

(Continued)

1 Claim, 5 Drawing Sheets



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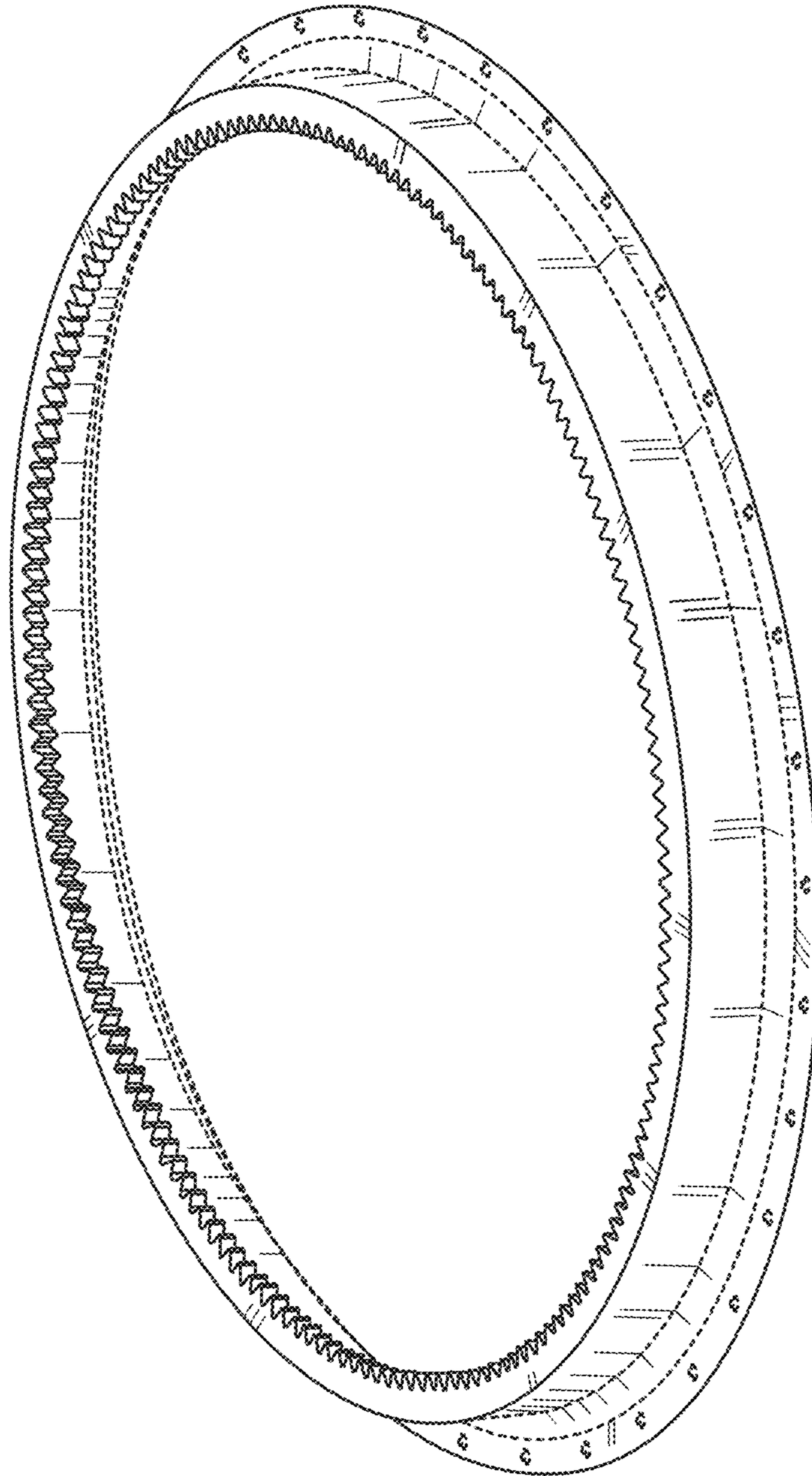


FIG. 1

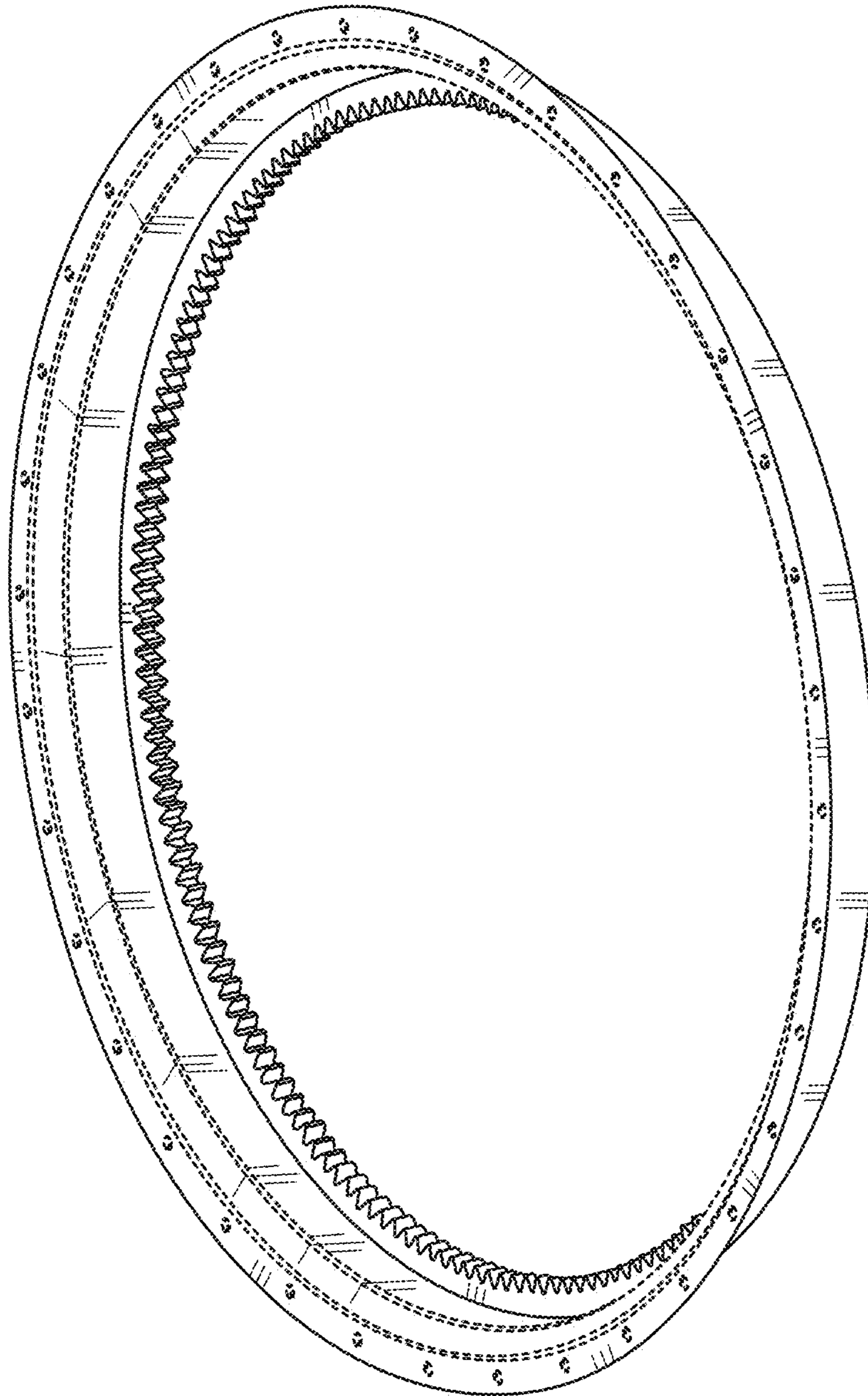


FIG. 2

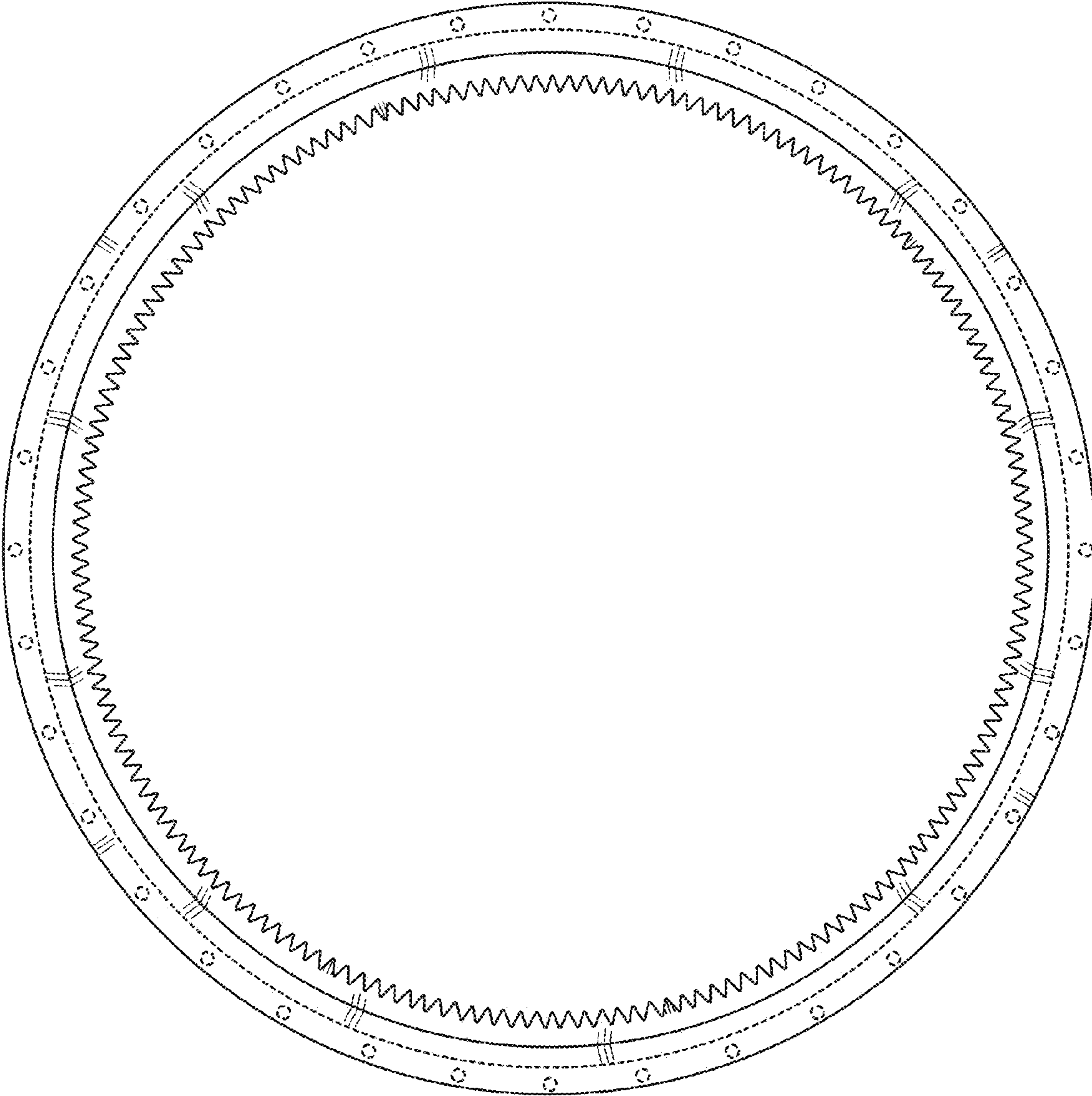


FIG. 3

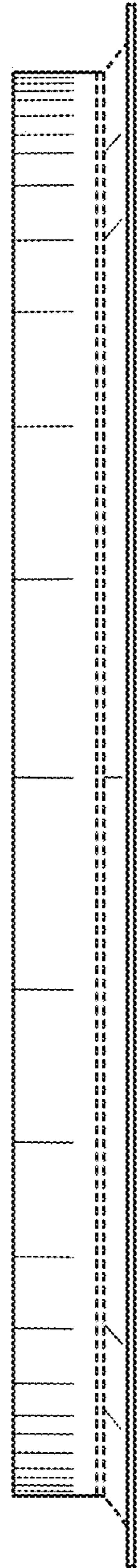


FIG. 4

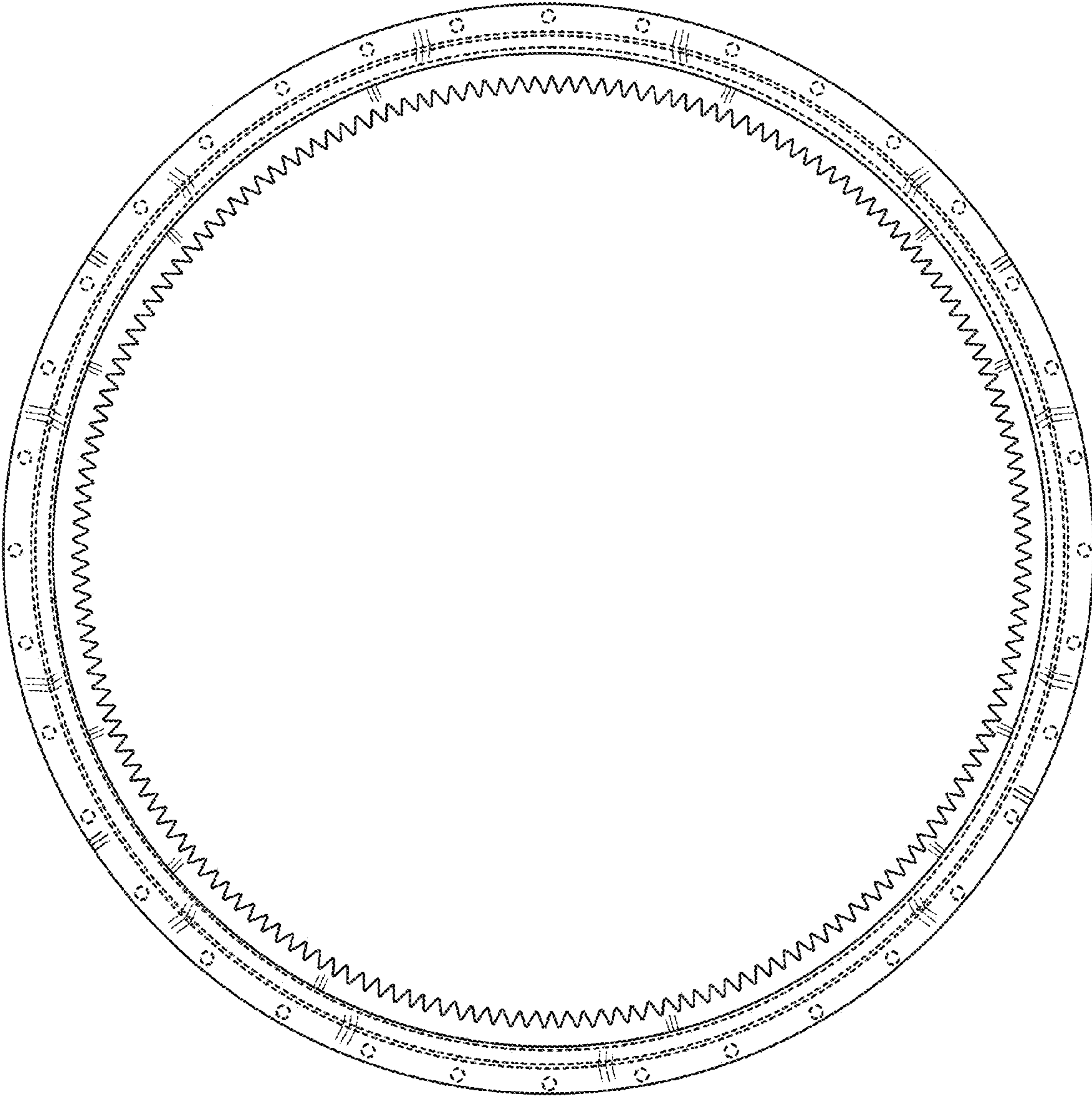


FIG. 5