



US00D936110S

(12) **United States Design Patent** (10) **Patent No.:** **US D936,110 S**
Jenner (45) **Date of Patent:** **** Nov. 16, 2021**

(54) **CENTRALIZER**

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(72) Inventor: **Andrew Jenner**, Vechta (DE)

(73) Assignee: **CEN TEK LIMITED**, Newton Abbot (GB)

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

(21) Appl. No.: **29/642,459**

(22) Filed: **Mar. 29, 2018**

Related U.S. Application Data

(62) Division of application No. 29/526,558, filed on May 11, 2015, now Pat. No. Des. 851,131.

(30) **Foreign Application Priority Data**

Jan. 27, 2015 (WO) DM/085448
Jan. 27, 2015 (WO) DM/085449
Feb. 26, 2015 (WO) DM/085736

(51) **LOC (13) Cl.** **15-04**

(52) **U.S. Cl.**
USPC **D15/21; D8/354**

(58) **Field of Classification Search**
USPC D8/354, 349, 356; D15/10, 21; 166/384, 166/241.1-241.7, 213, 173, 208, 382
(Continued)

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Primary Examiner — Keli L Hill
Assistant Examiner — Harold E Blackwell, II

(74) *Attorney, Agent, or Firm* — Dickinson Wright PLLC; Mark E. Scott

(57) **CLAIM**

The ornamental design for a centralizer, as shown and described.

DESCRIPTION

FIG. 1 is a front elevation view of an embodiment of a centralizer showing the new design; FIG. 2 is a back elevation view thereof; FIG. 3 is a right elevation view thereof; FIG. 4 is a left elevation view thereof; FIG. 5 is top elevation view thereof, the bottom elevation view being identical thereto; FIG. 6 is a perspective view thereof; FIG. 7 is a front elevation view of an alternative embodiment of a centralizer showing the new design; FIG. 8 is a back elevation view thereof; FIG. 9 is a right elevation view thereof; FIG. 10 is a left elevation view thereof; FIG. 11 is top elevation view thereof, the bottom elevation view being identical thereto; FIG. 12 is a perspective view thereof; FIG. 13 is a front elevation view of an alternative embodiment of a centralizer showing the new design; FIG. 14 is a back elevation view thereof; FIG. 15 is a right elevation view thereof; FIG. 16 is a left elevation view thereof; FIG. 17 is top elevation view thereof, the bottom elevation view being identical thereto; FIG. 18 is a perspective view thereof; FIG. 19 is a front elevation view of an alternative embodiment of a centralizer showing the new design; FIG. 20 is a back elevation view thereof; FIG. 21 is a right elevation view thereof; FIG. 22 is a left elevation view thereof; FIG. 23 is a top elevation view thereof, the bottom elevation view being identical thereto; FIG. 24 is a perspective view thereof; FIG. 25 is a front elevation view of an alternative embodiment of a centralizer showing the new design;

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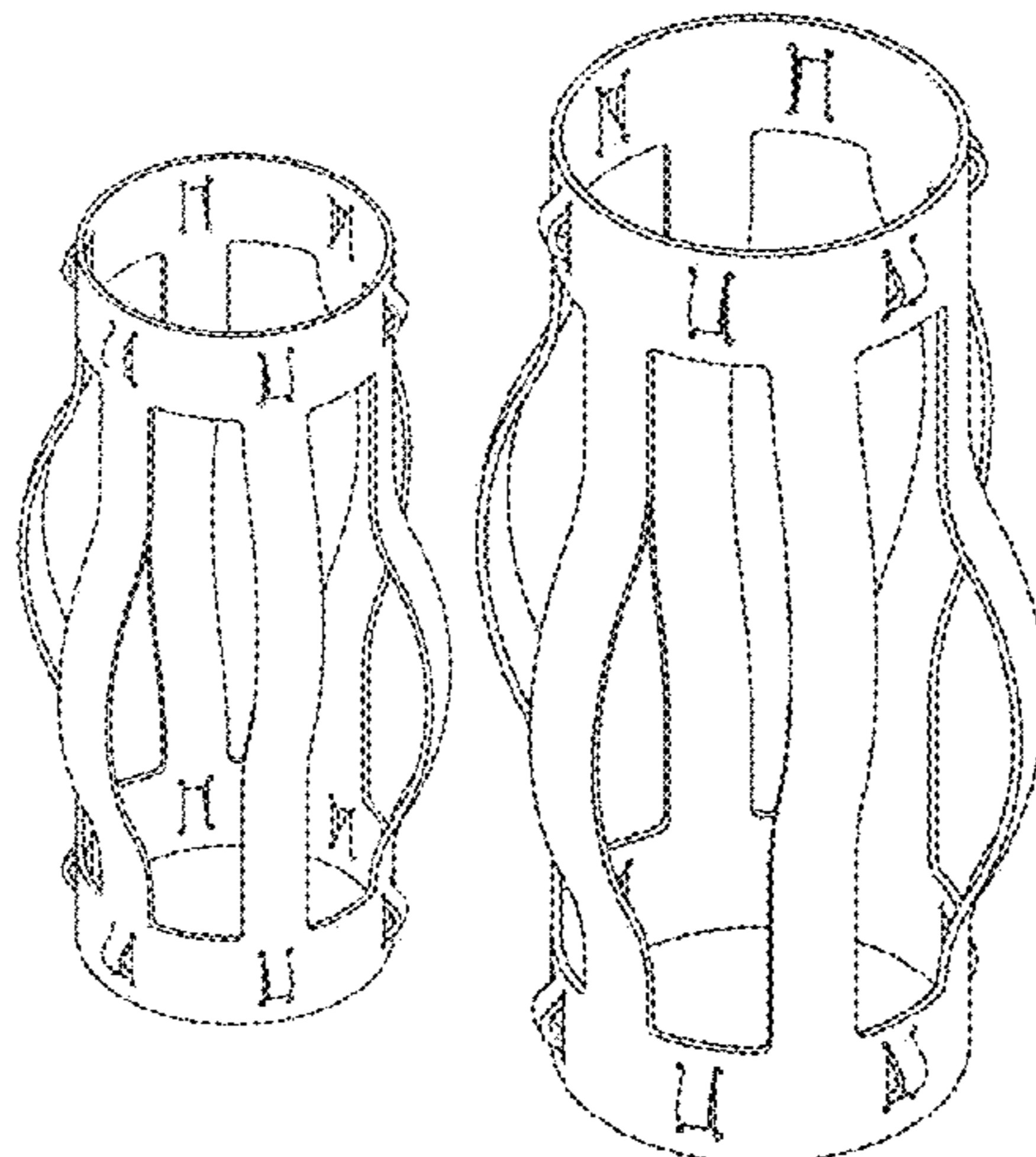


FIG. 26 is a back elevation view thereof;
 FIG. 27 is a right elevation view thereof;
 FIG. 28 is a left elevation view thereof;
 FIG. 29 is a top elevation view thereof, the bottom elevation view being identical thereto;
 FIG. 30 is a perspective view thereof;
 FIG. 31 is a front elevation view of an alternative embodiment of a centralizer showing the new design;
 FIG. 32 is a back elevation view thereof;
 FIG. 33 is a right elevation view thereof;
 FIG. 34 is a left elevation view thereof;
 FIG. 35 is a top elevation view thereof, the bottom elevation view being identical thereto;
 FIG. 36 is a perspective view thereof;
 FIG. 37 is a front elevation view of an alternative embodiment of a centralizer showing the new design;
 FIG. 38 is a back elevation view thereof;
 FIG. 39 is a right elevation view thereof;
 FIG. 40 is a left elevation view thereof;
 FIG. 41 is a top elevation view thereof, the bottom elevation view being identical thereto;
 FIG. 42 is a perspective view thereof;
 FIG. 43 is a front elevation view of an alternative embodiment of a centralizer showing the new design;
 FIG. 44 is a back elevation view thereof;
 FIG. 45 is a right elevation view thereof;
 FIG. 46 is a left elevation view thereof;
 FIG. 47 is a top elevation view thereof, the bottom elevation view being identical thereto;
 FIG. 48 is a perspective view thereof;
 FIG. 49 is a front elevation view of an alternative embodiment of a centralizer showing the new design;
 FIG. 50 is a back elevation view thereof;
 FIG. 51 is a right elevation view thereof;
 FIG. 52 is a left elevation view thereof;
 FIG. 53 is a top elevation view thereof, the bottom elevation view being identical thereto;
 FIG. 54 is a perspective view thereof;
 FIG. 55 is a front elevation view of a forty-fourth embodiment of a centralizer showing the new design;
 FIG. 56 is a back elevation view thereof;
 FIG. 57 is a right elevation view thereof;
 FIG. 58 is a left elevation view thereof;
 FIG. 59 is a top elevation view thereof, the bottom elevation view being identical thereto;
 FIG. 60 is a perspective view thereof;
 FIG. 61 is a front elevation view of an alternative embodiment of a centralizer showing the new design;
 FIG. 62 is a back elevation view thereof;
 FIG. 63 is a right elevation view thereof;
 FIG. 64 is a left elevation view thereof;

FIG. 65 is a top elevation view thereof, the bottom elevation view being identical thereto;
 FIG. 66 is a perspective view thereof;
 FIG. 67 is a front elevation view of an alternative embodiment of a centralizer showing the new design;
 FIG. 68 is a back elevation view thereof;
 FIG. 69 is a right elevation view thereof;
 FIG. 70 is a left elevation view thereof;
 FIG. 71 is a top elevation view thereof, the bottom elevation view being identical thereto;
 FIG. 72 is a perspective view thereof;
 FIG. 73 is a front elevation view of an alternative embodiment of a centralizer showing the new design;
 FIG. 74 is a back elevation view thereof;
 FIG. 75 is a right elevation view thereof;
 FIG. 76 is a left elevation view thereof;
 FIG. 77 is a top elevation view thereof, the bottom elevation view being identical thereto; and,
 FIG. 78 is a perspective view thereof.

1 Claim, 78 Drawing Sheets

(58) **Field of Classification Search**
 CPC E21B 17/1078; E21B 17/1035; E21B
 17/1064; E21B 17/1057
 See application file for complete search history.

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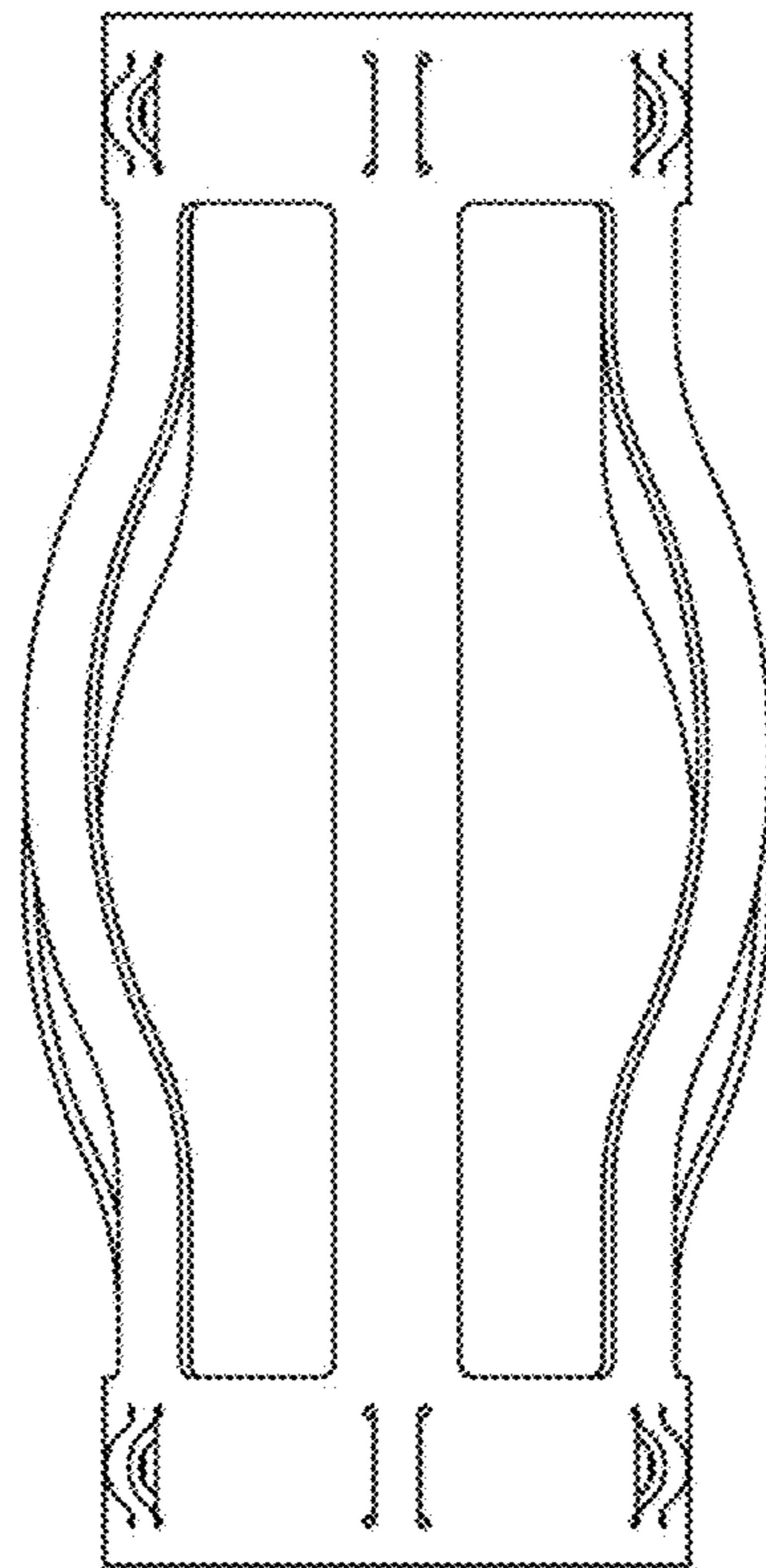


Figure 1

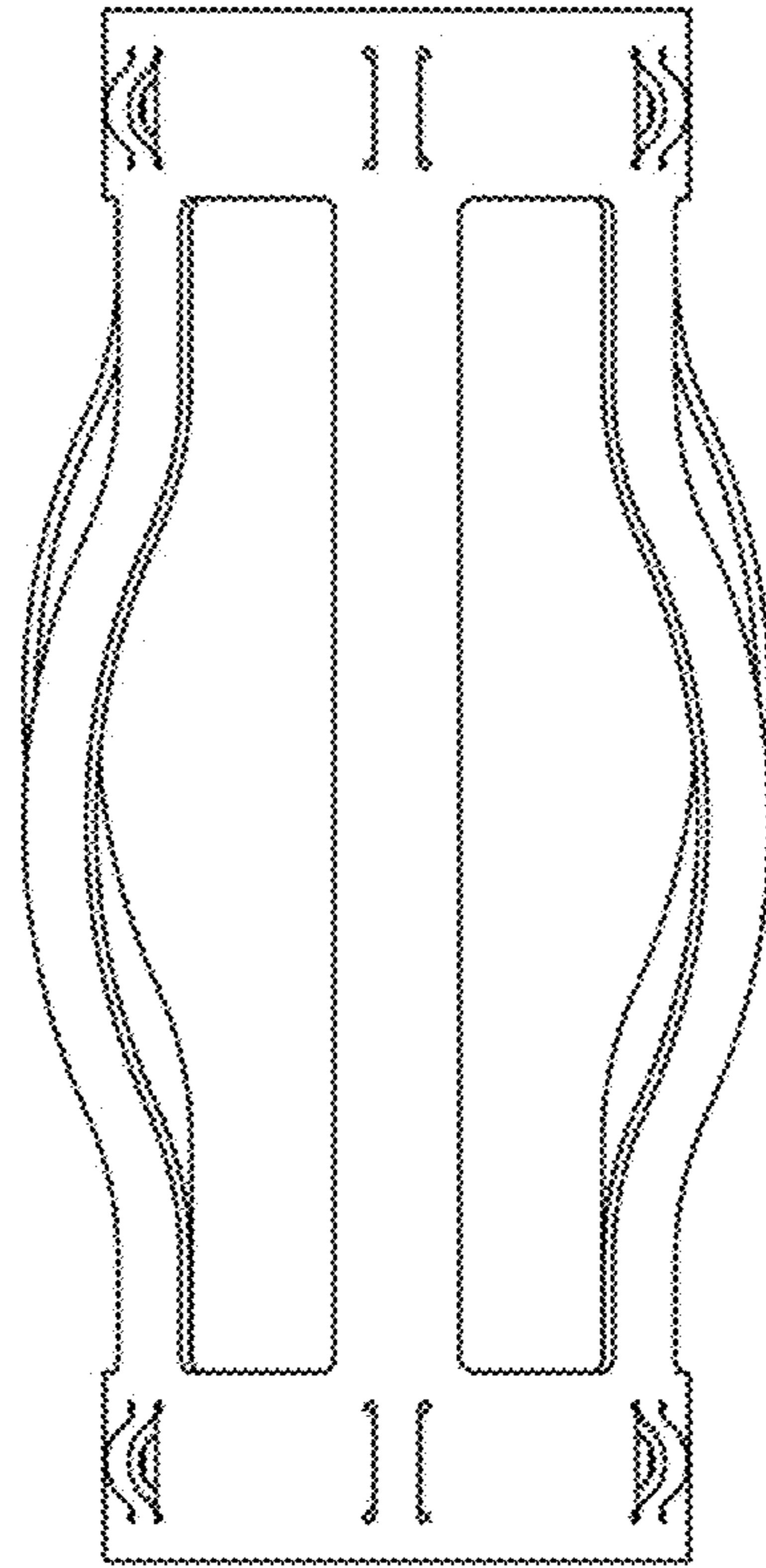


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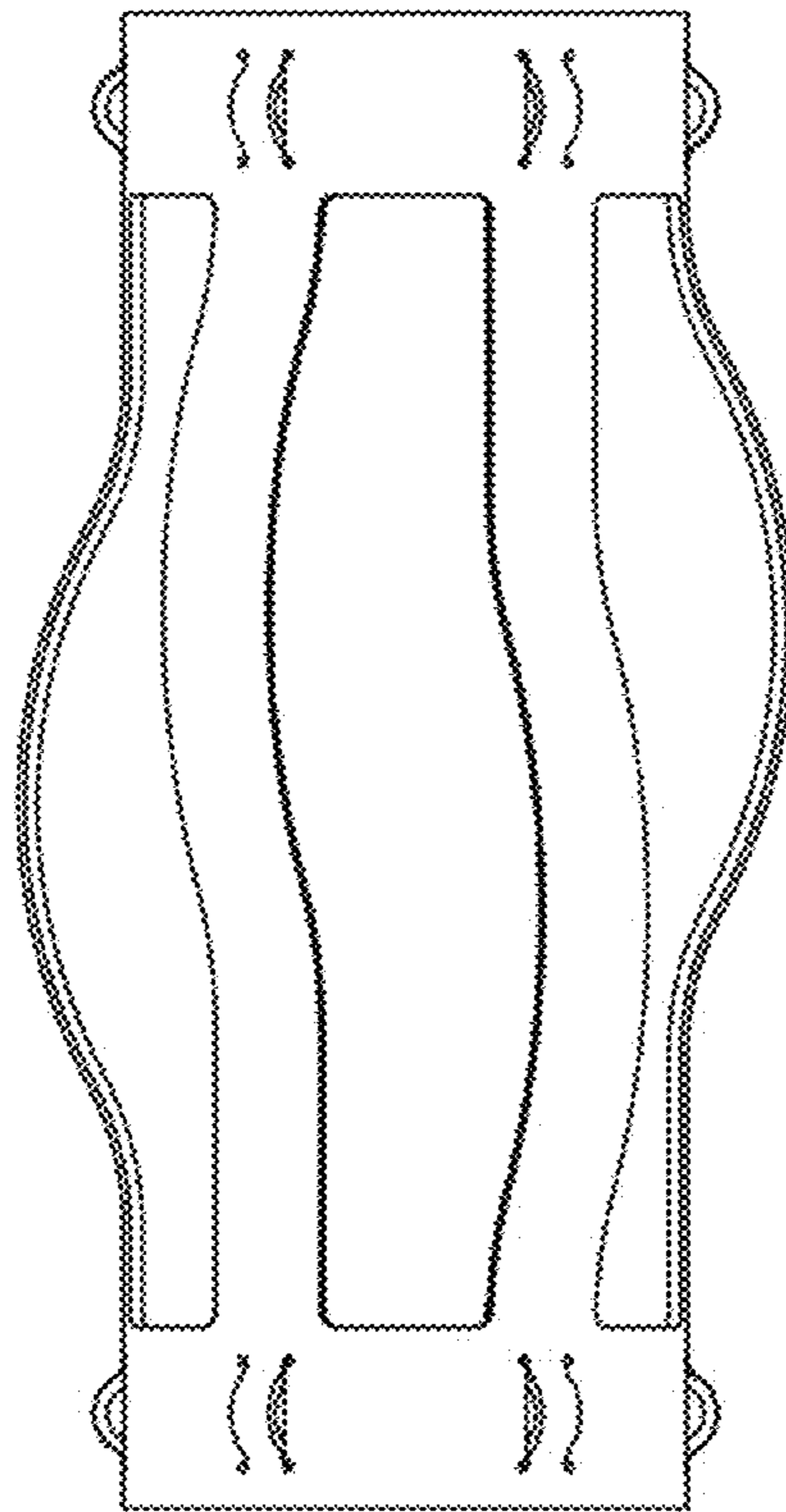


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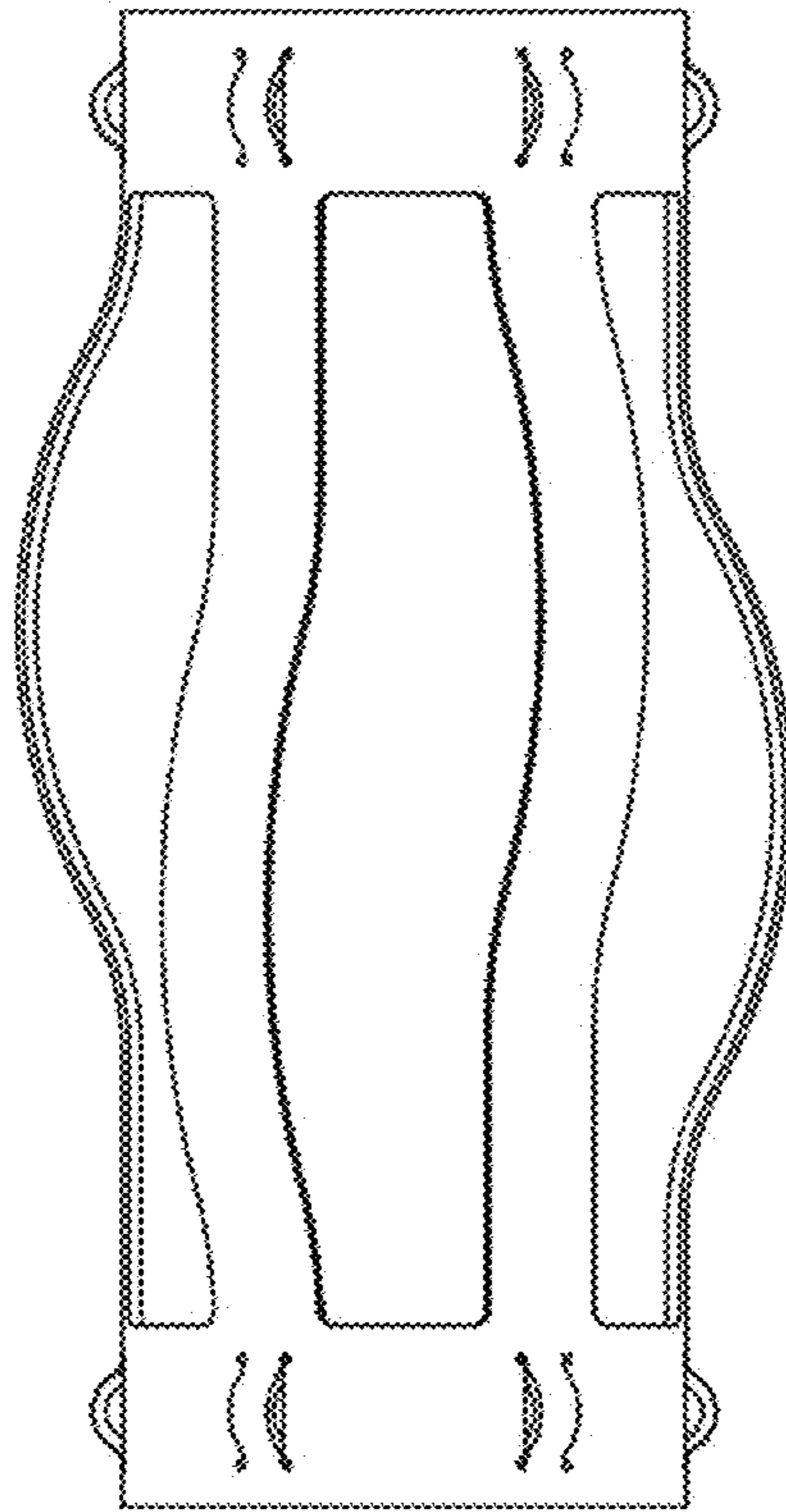


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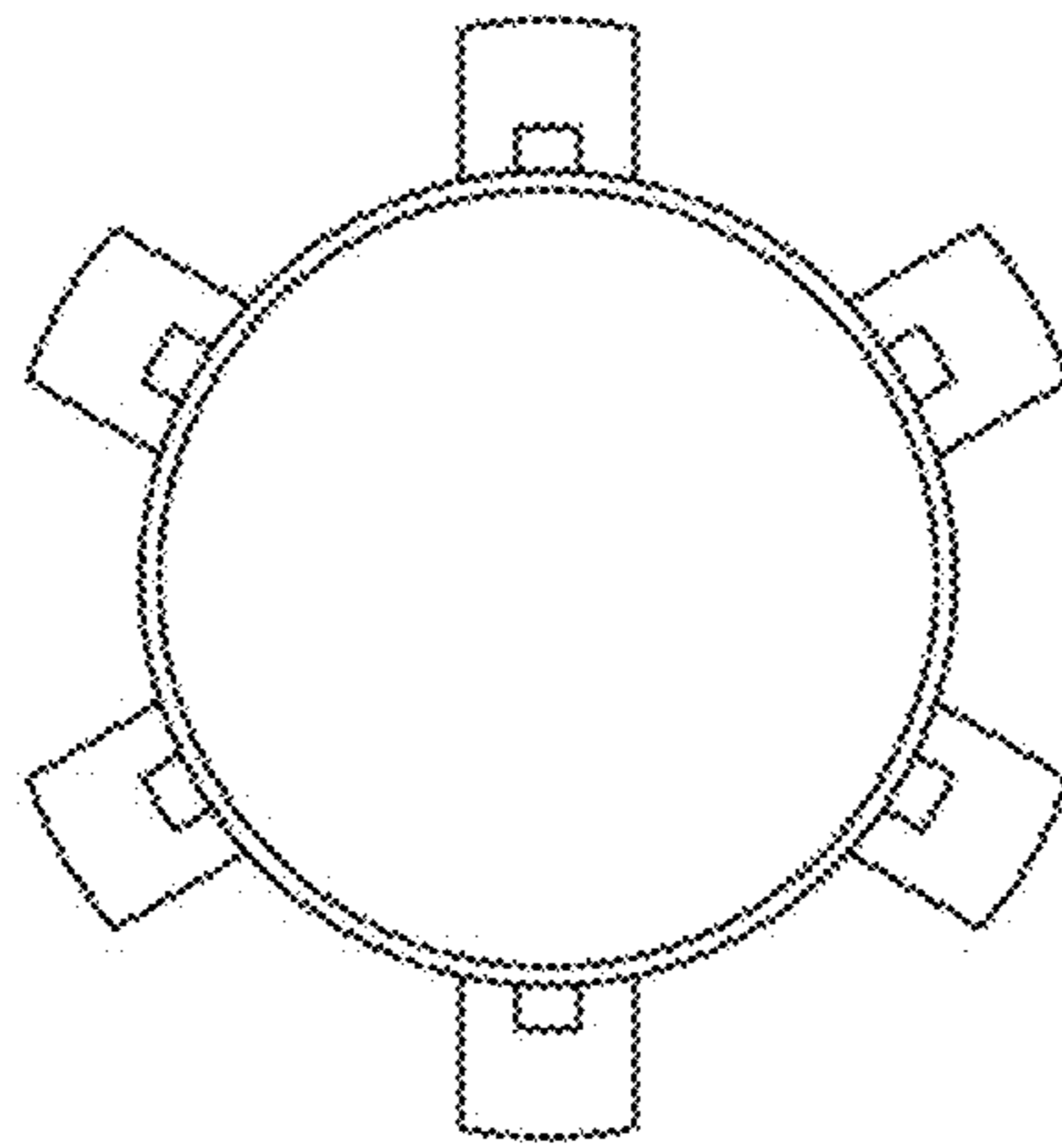


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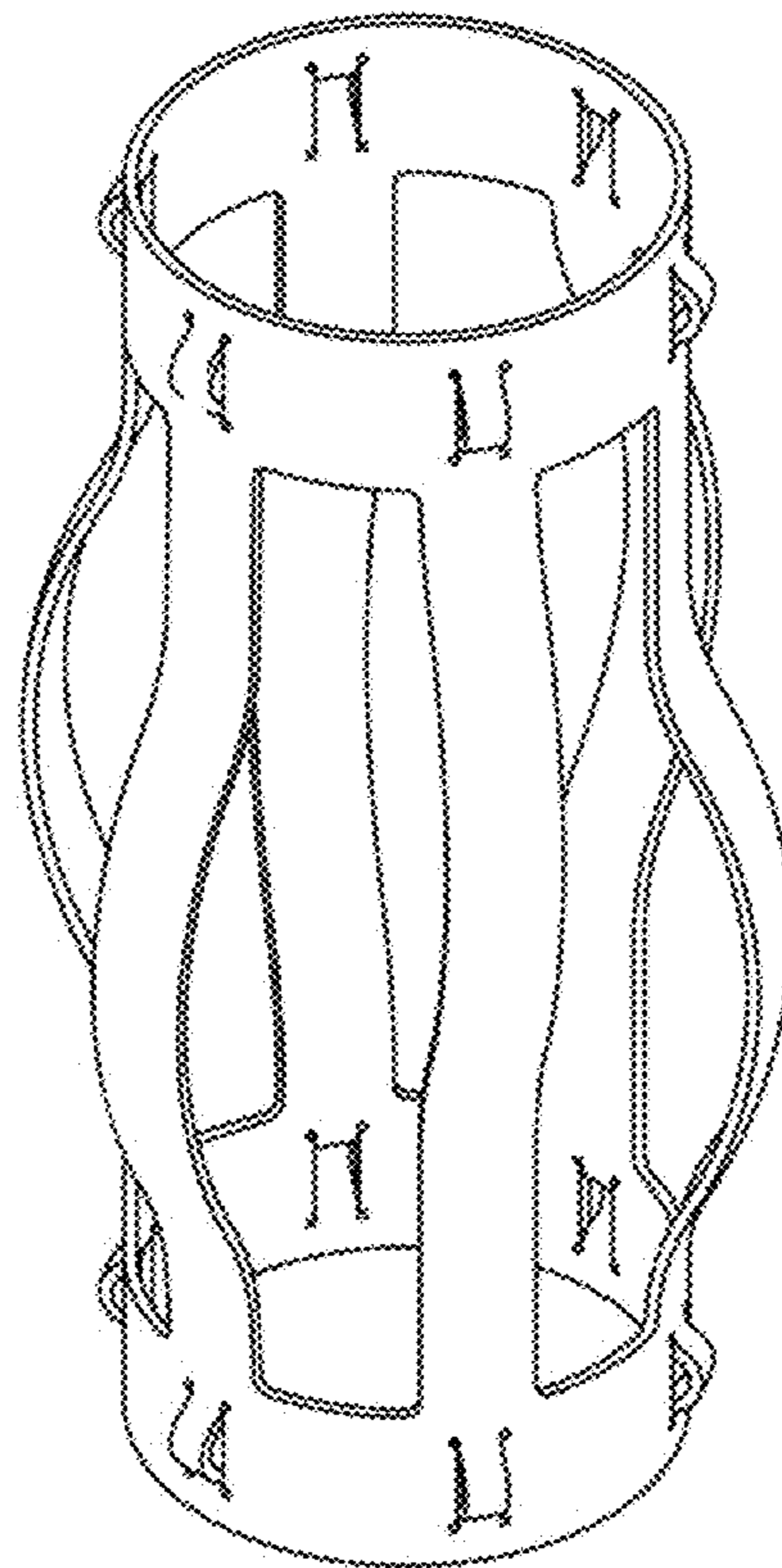


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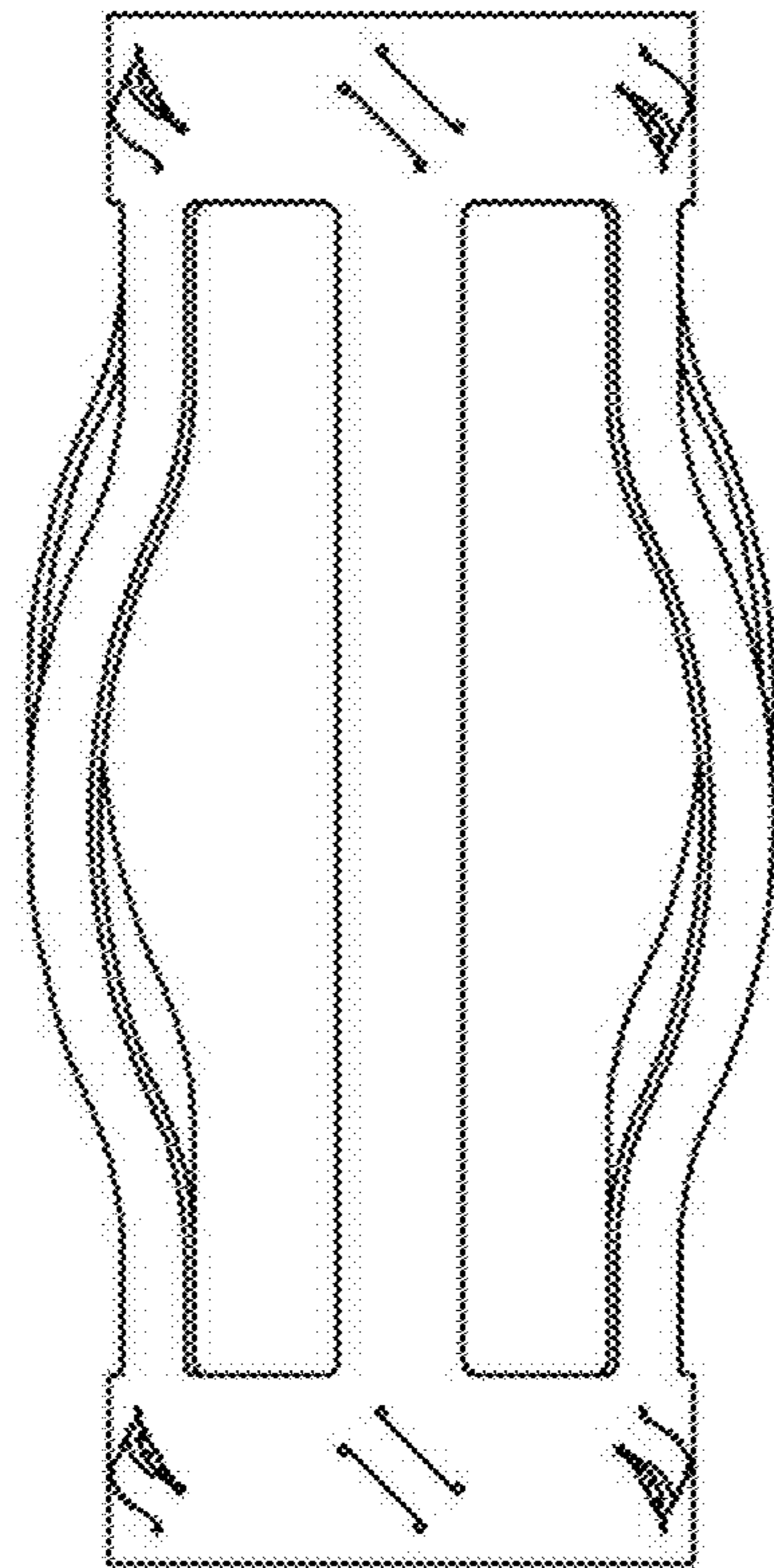


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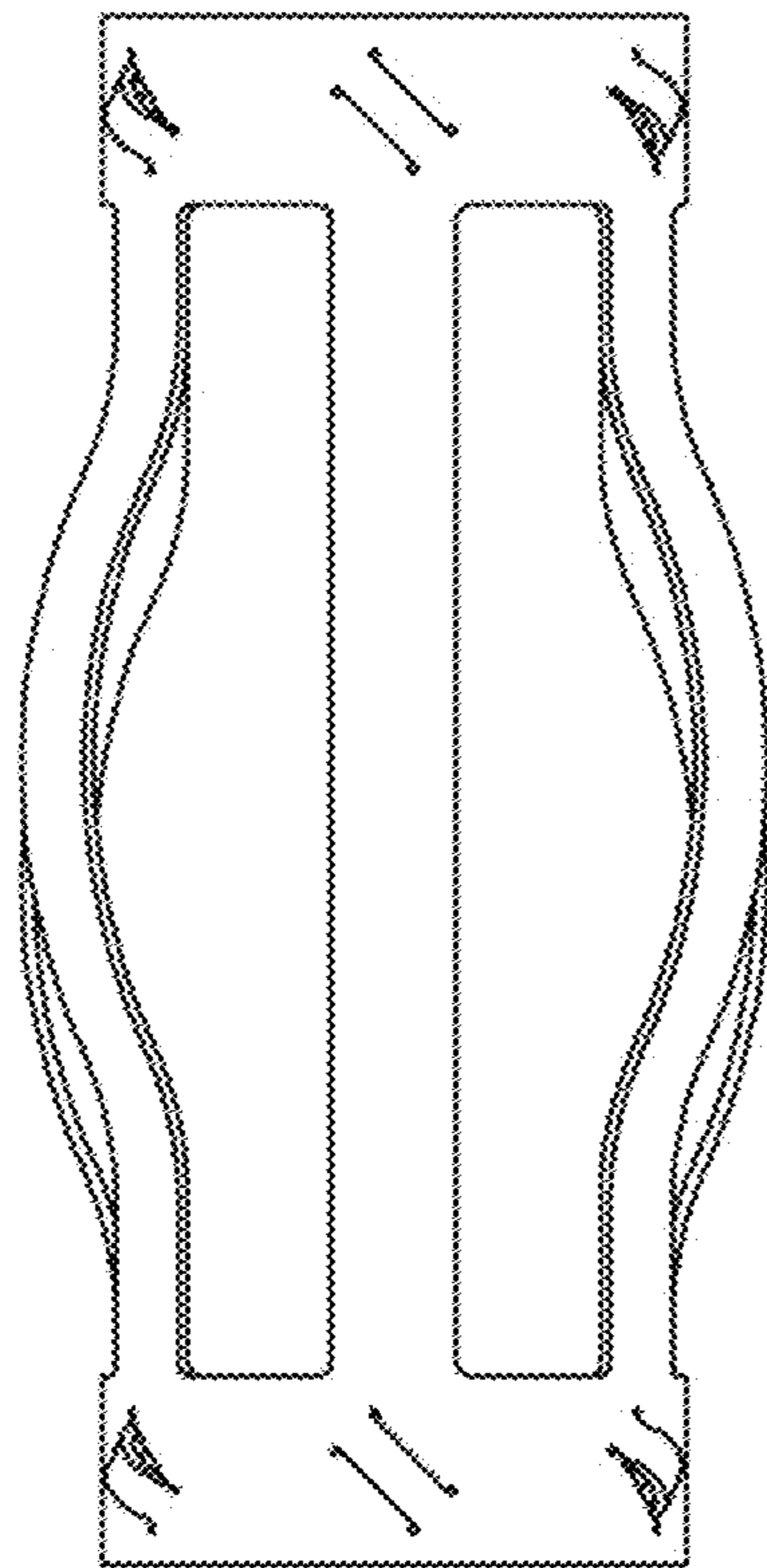


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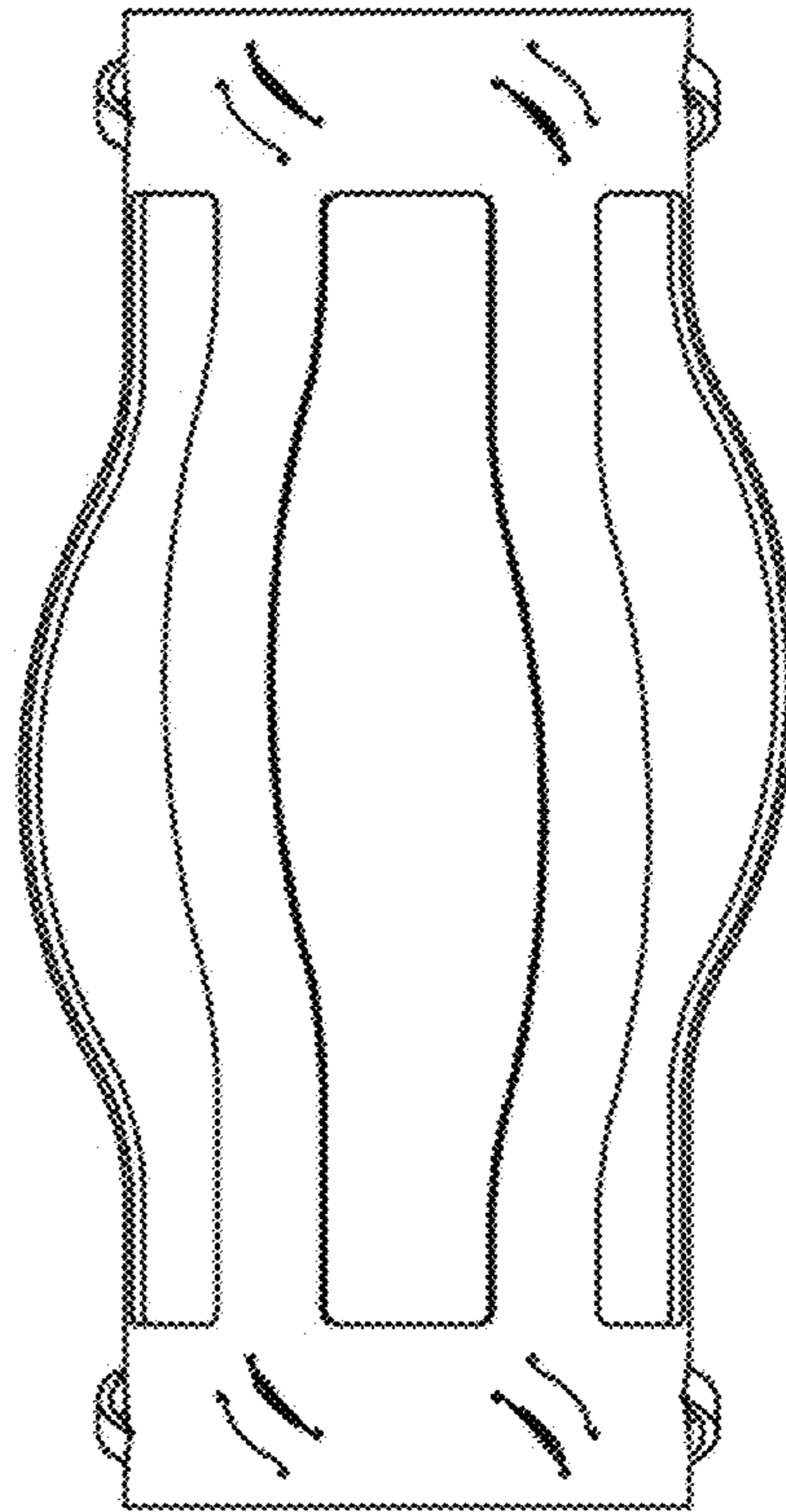


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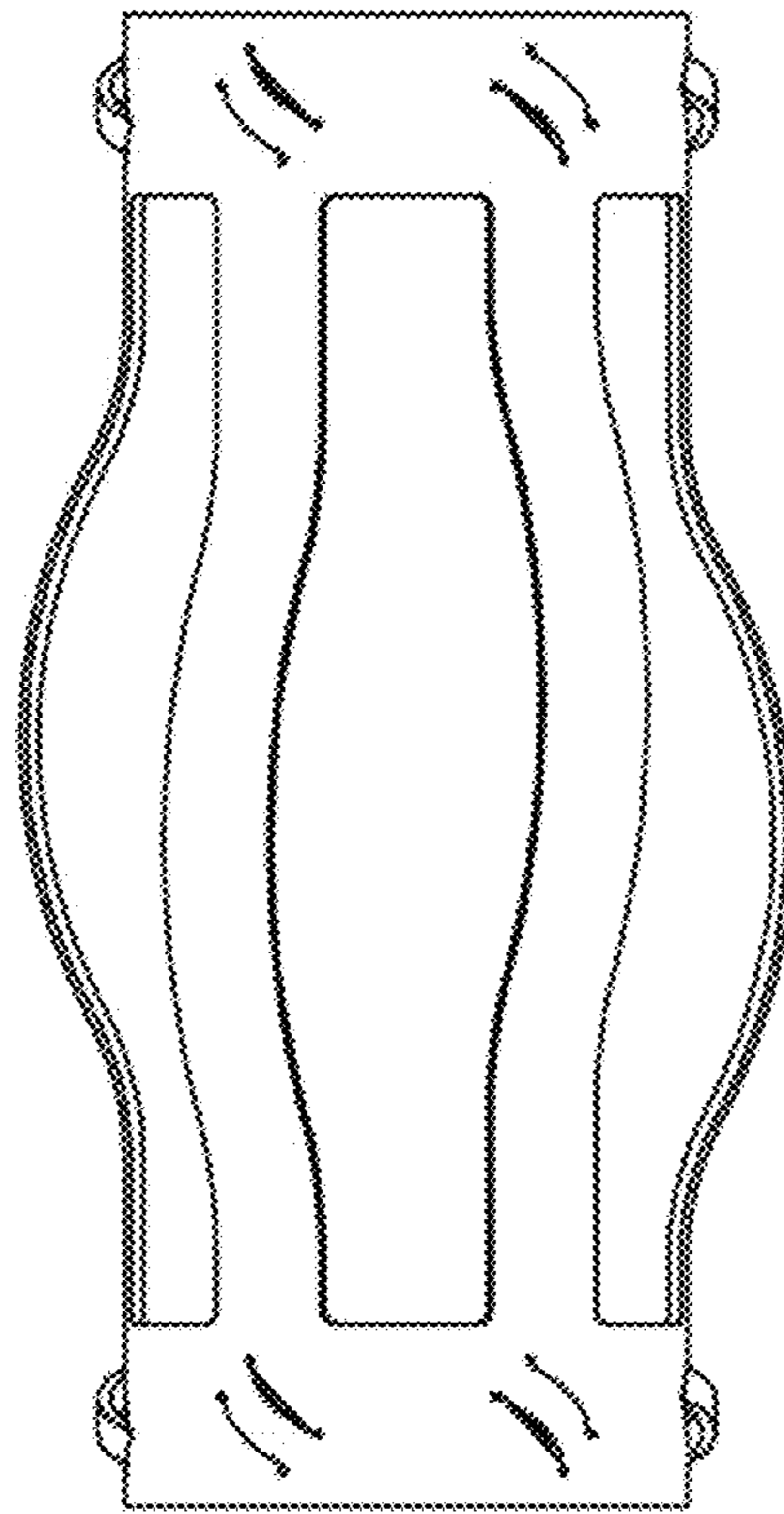


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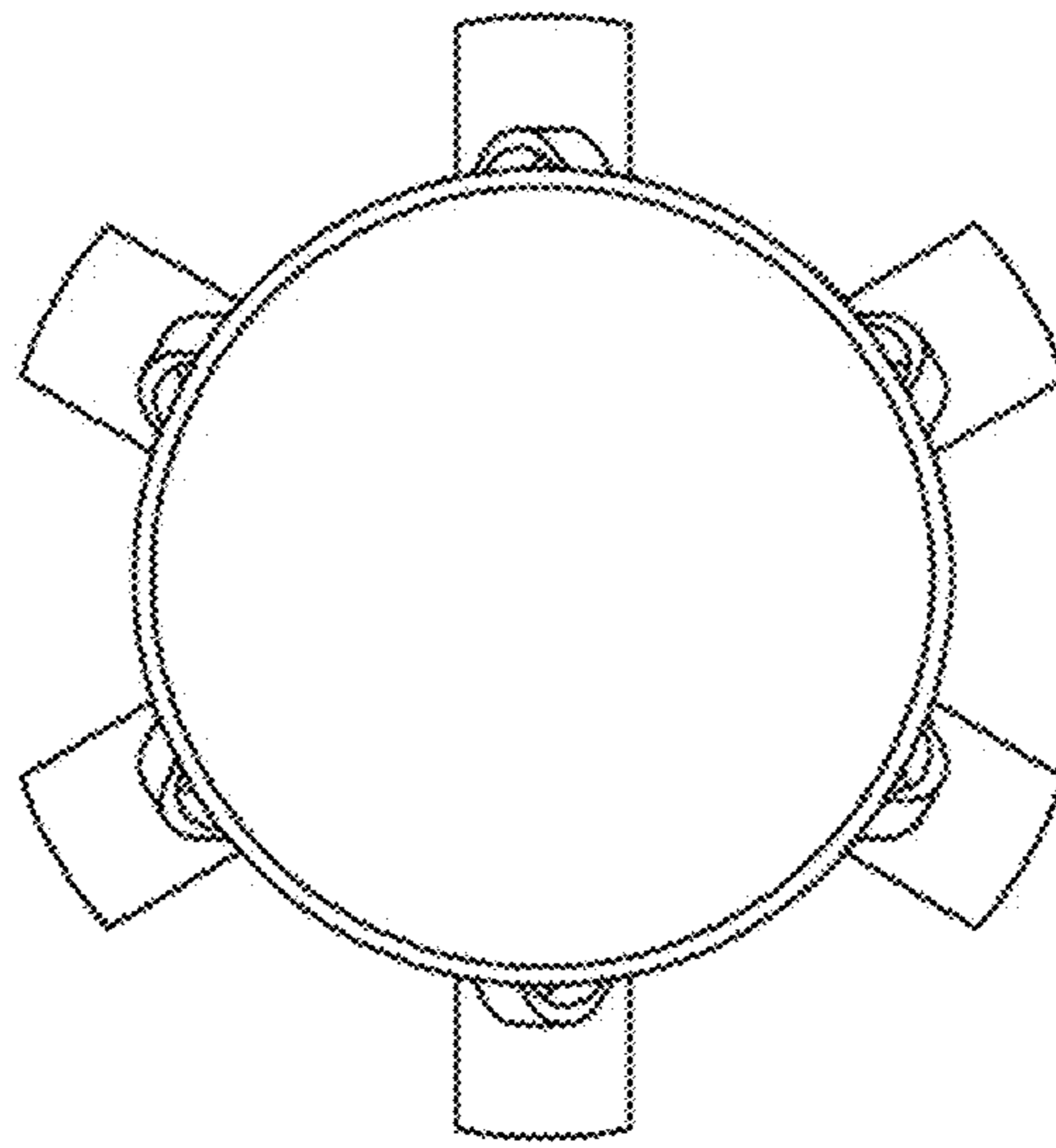


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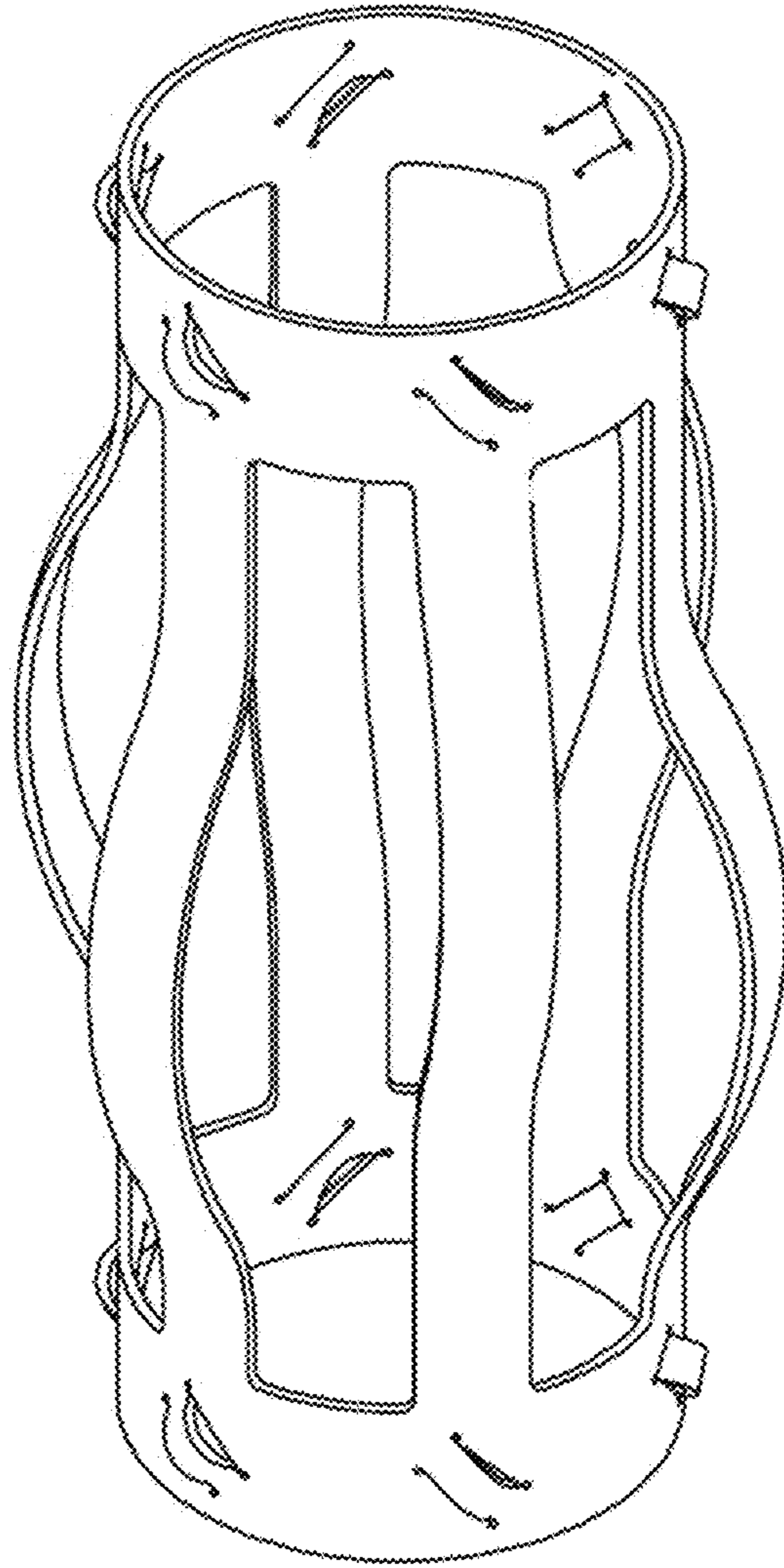


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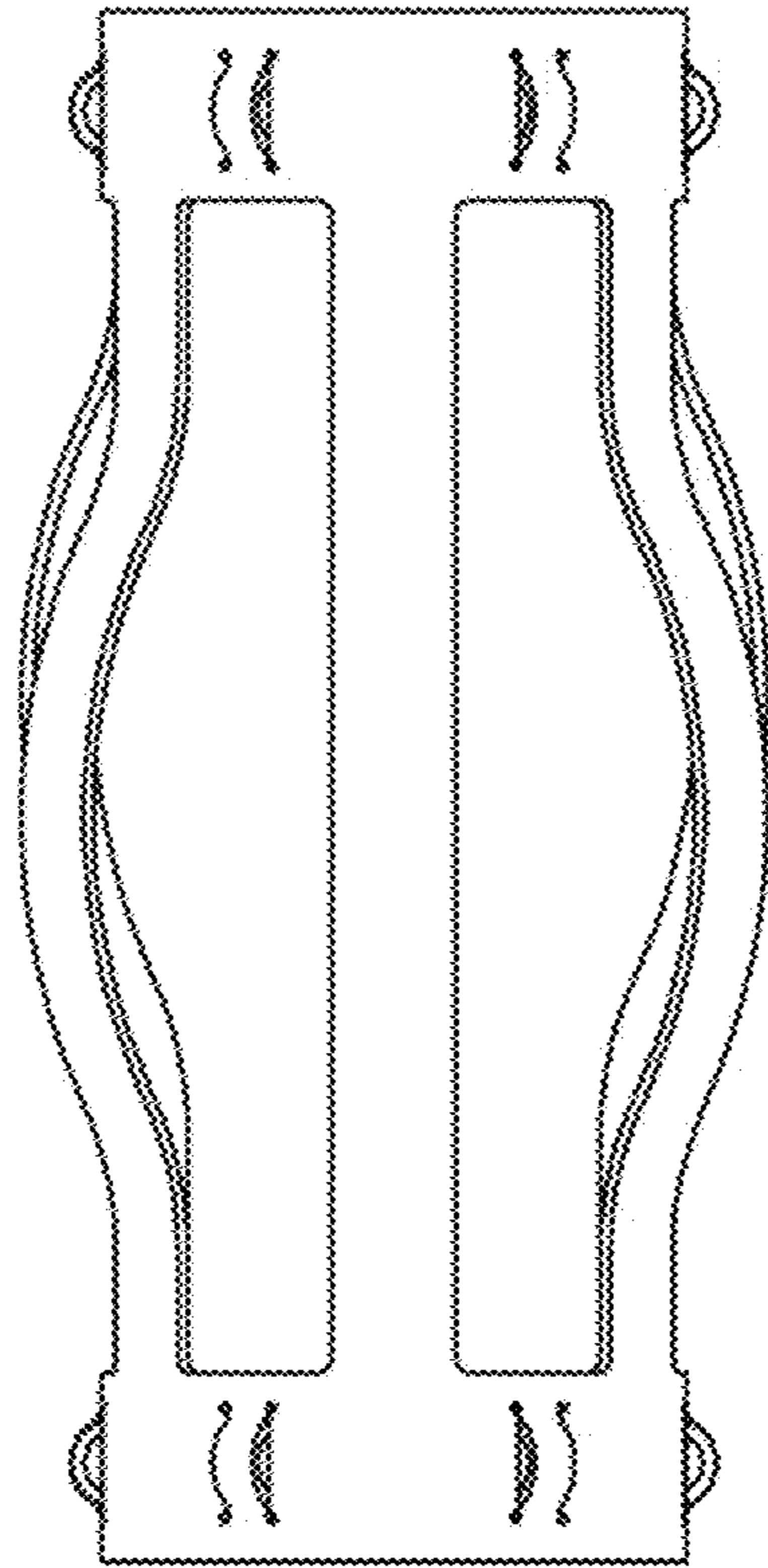


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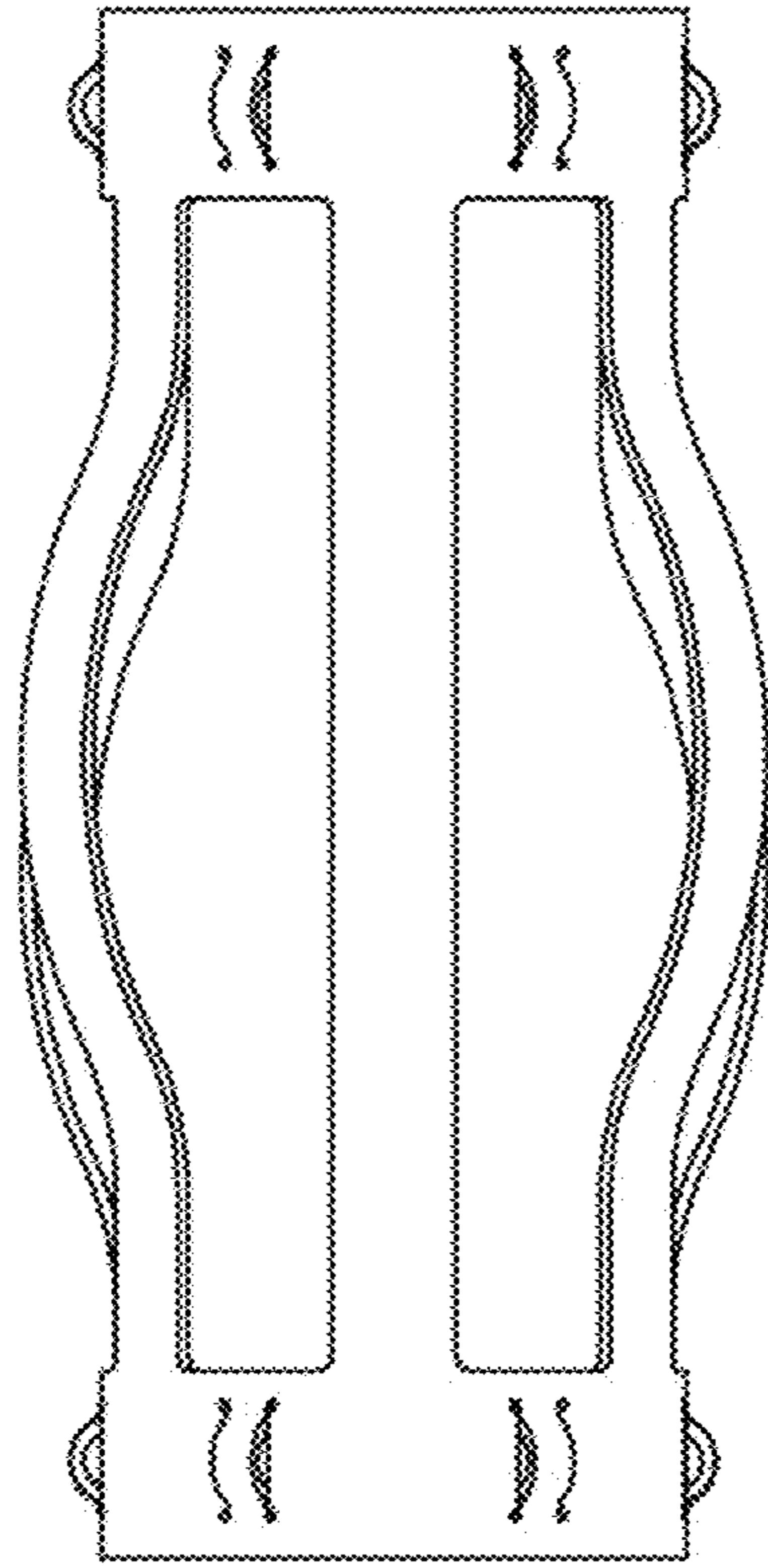


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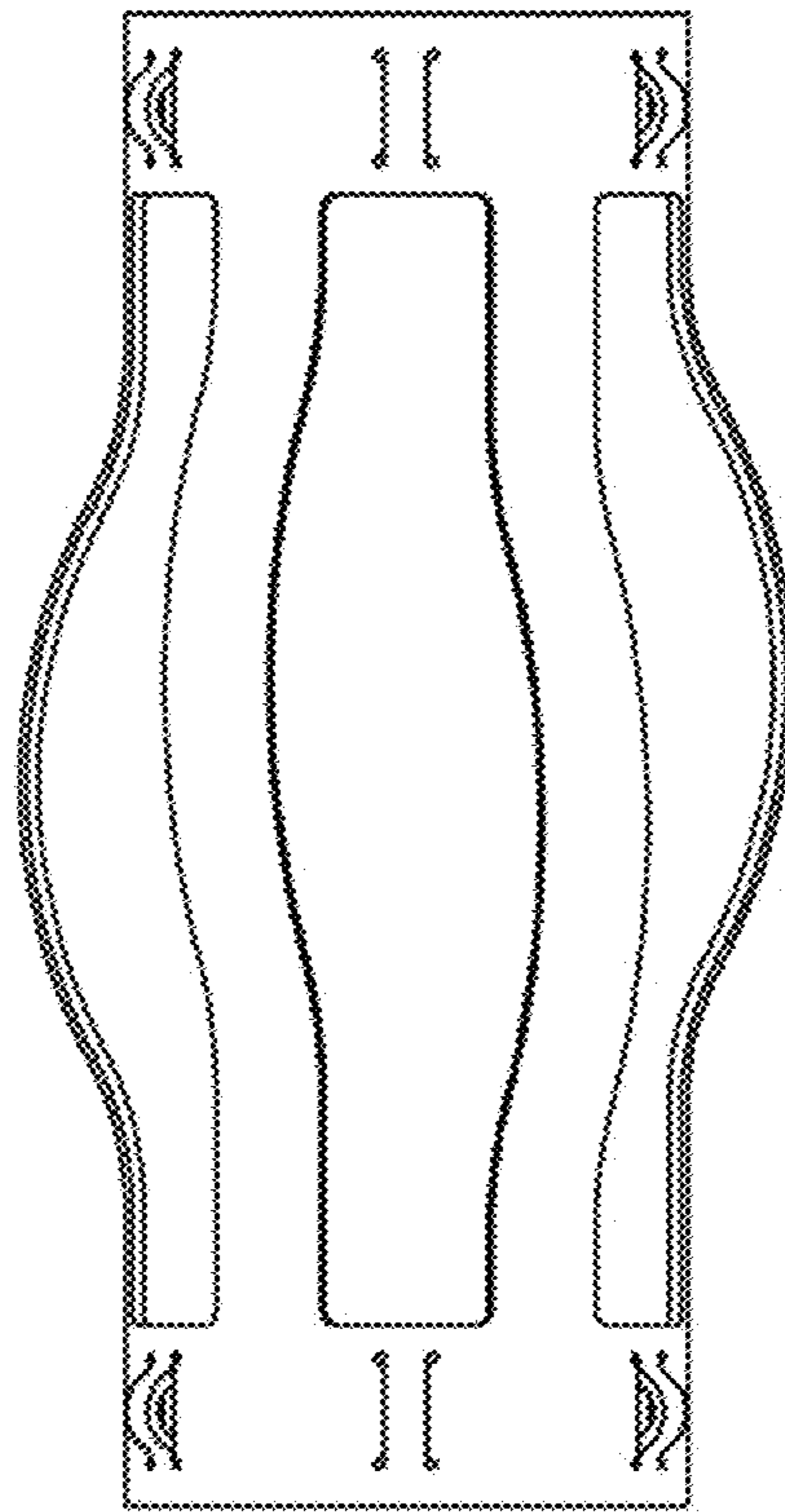


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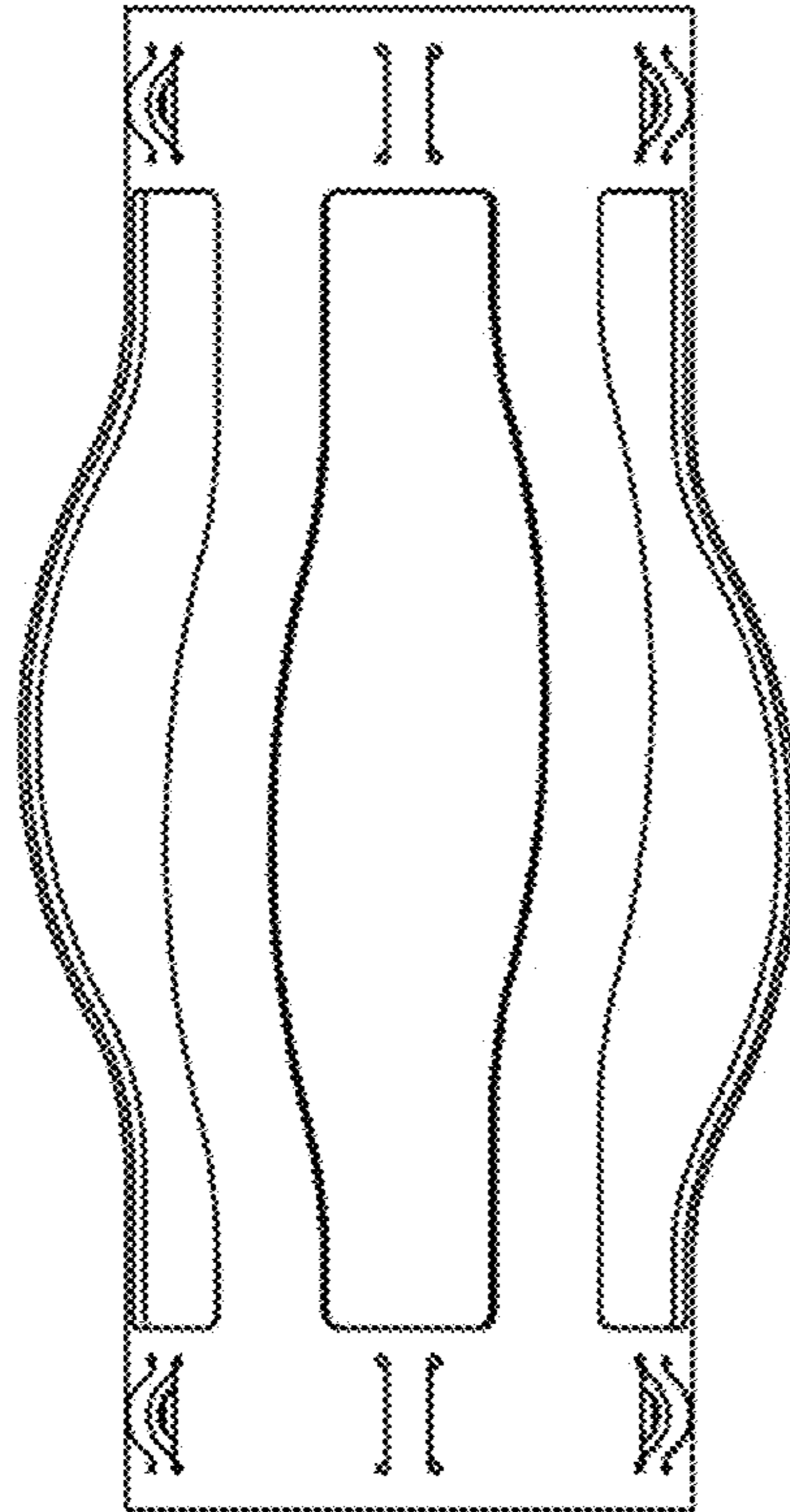


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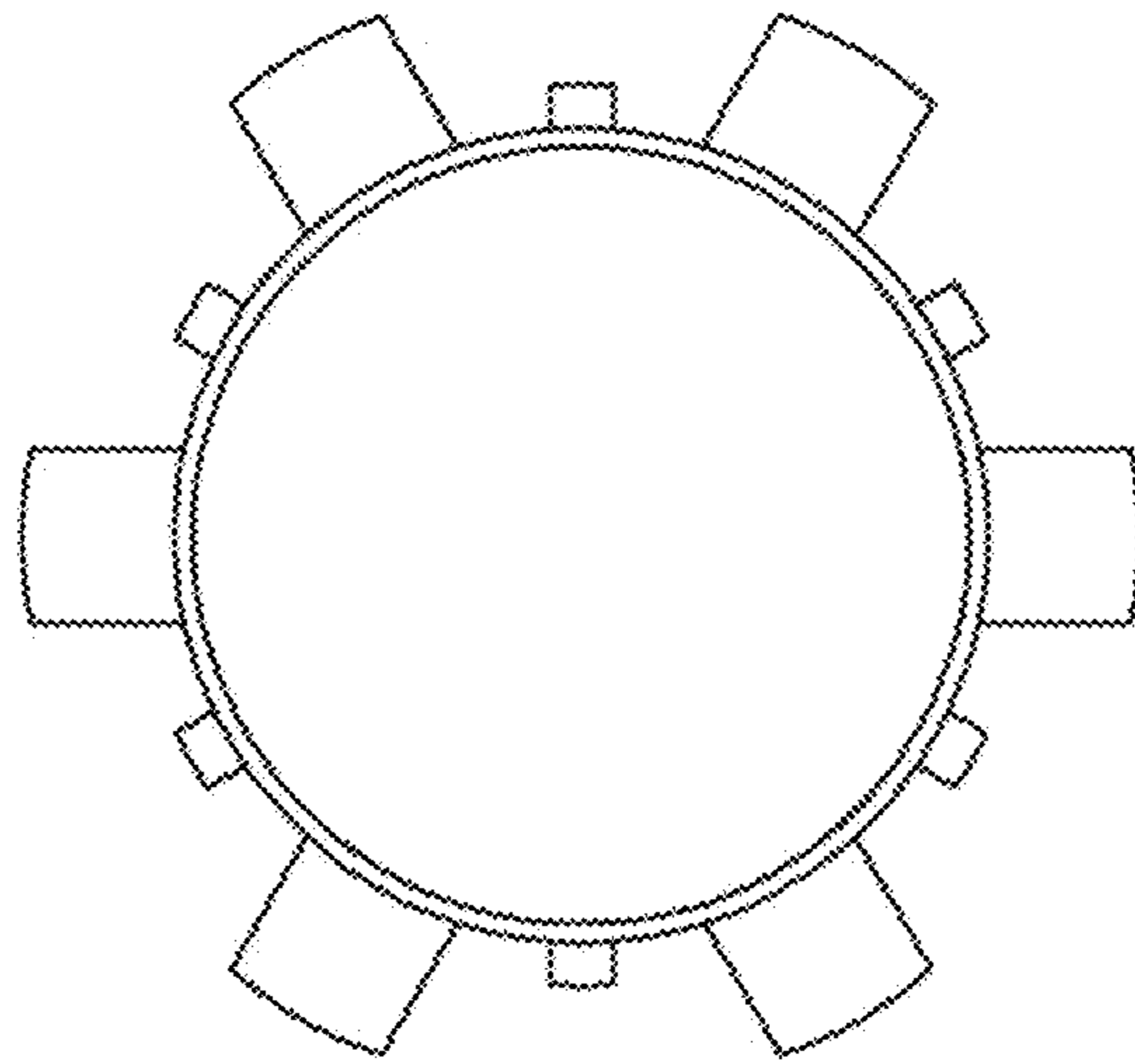


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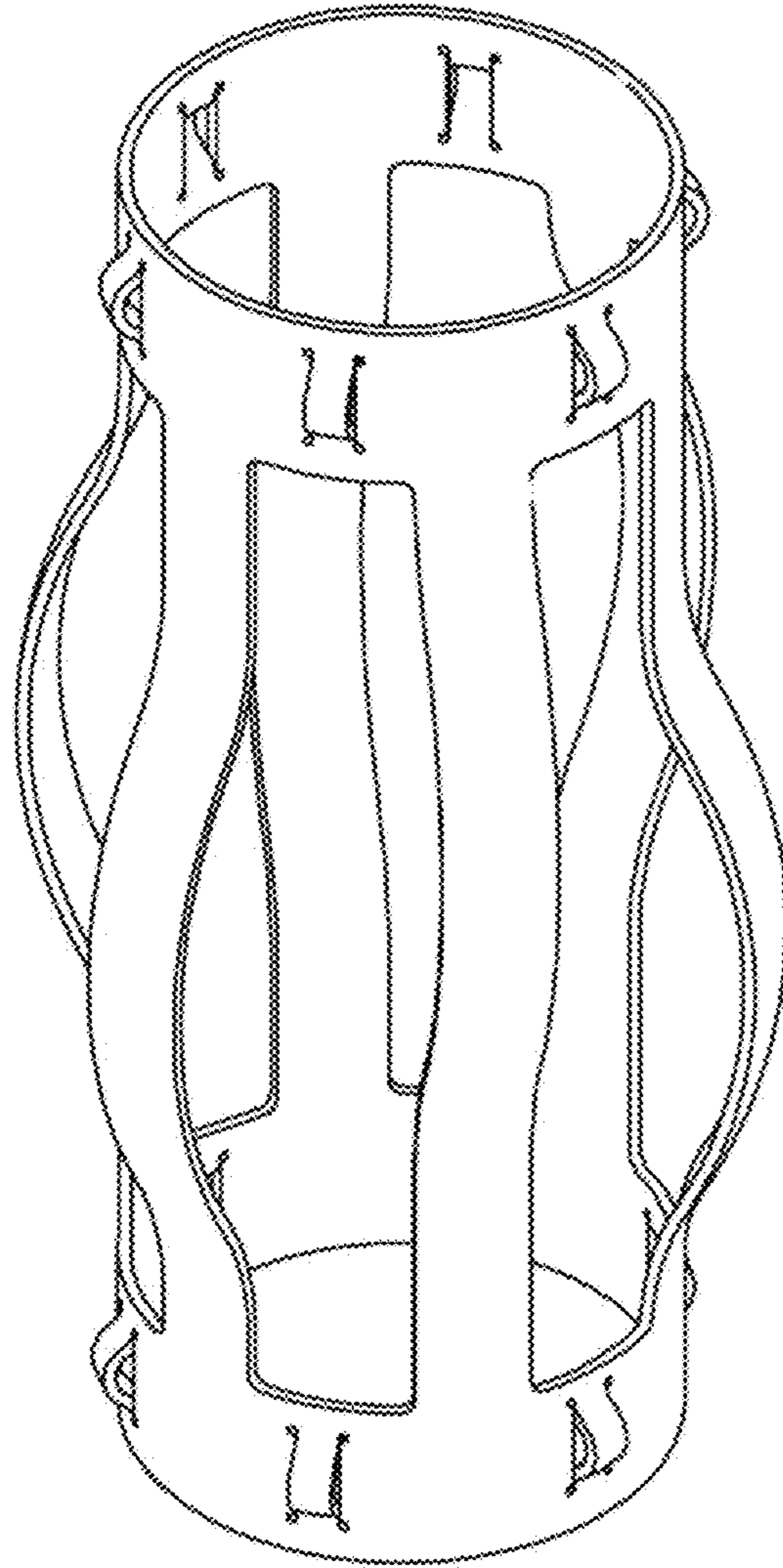


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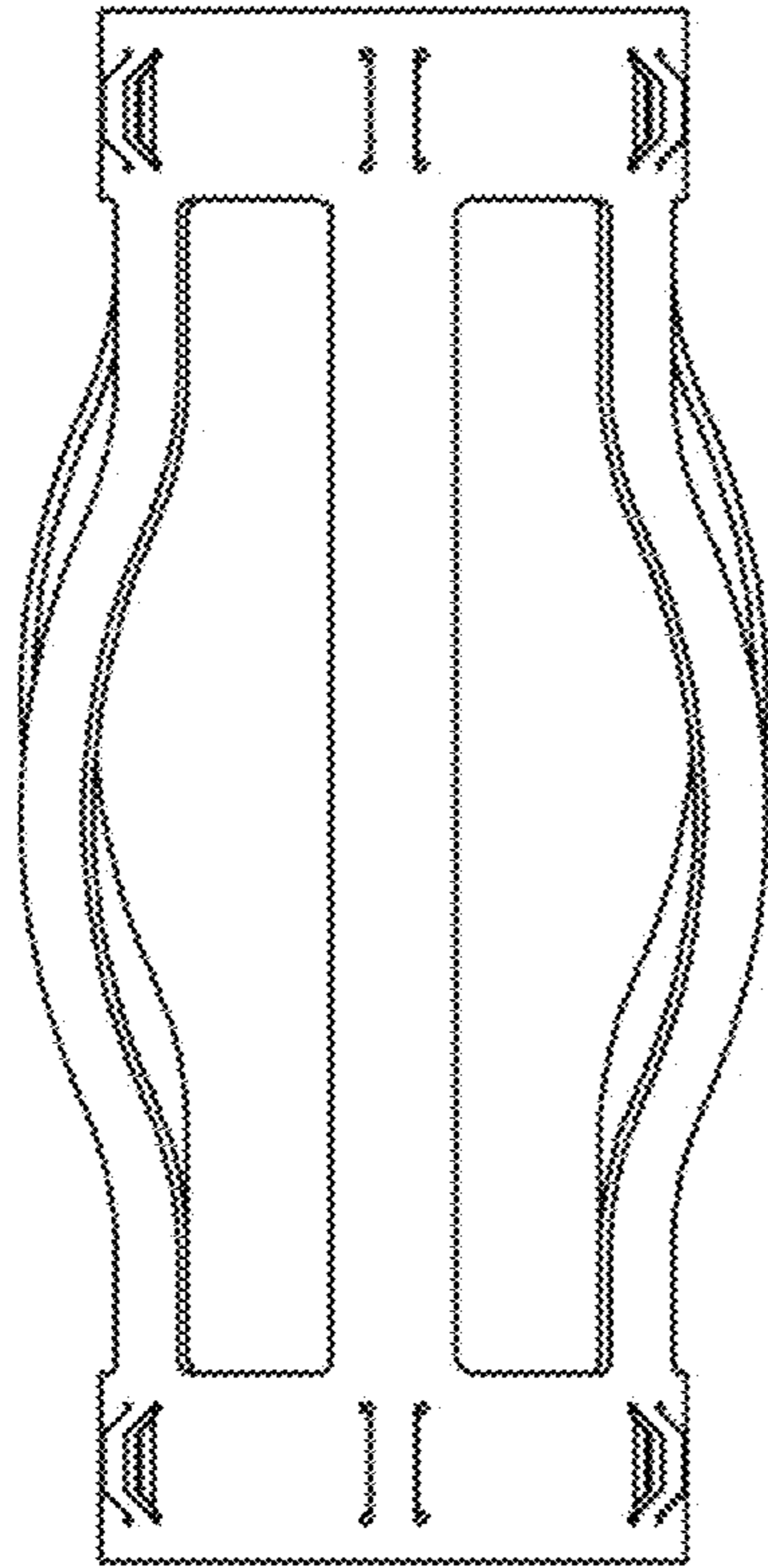


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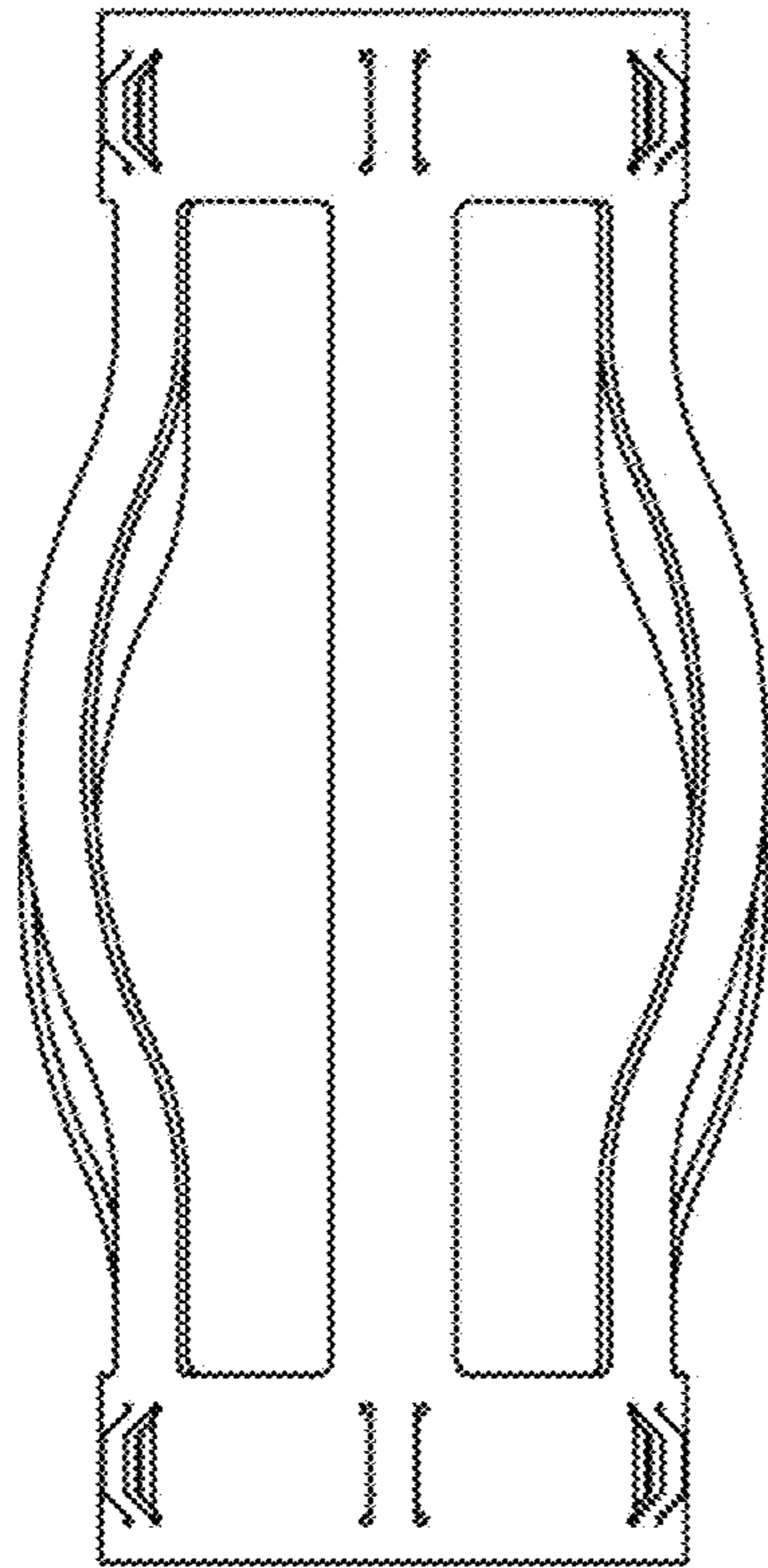


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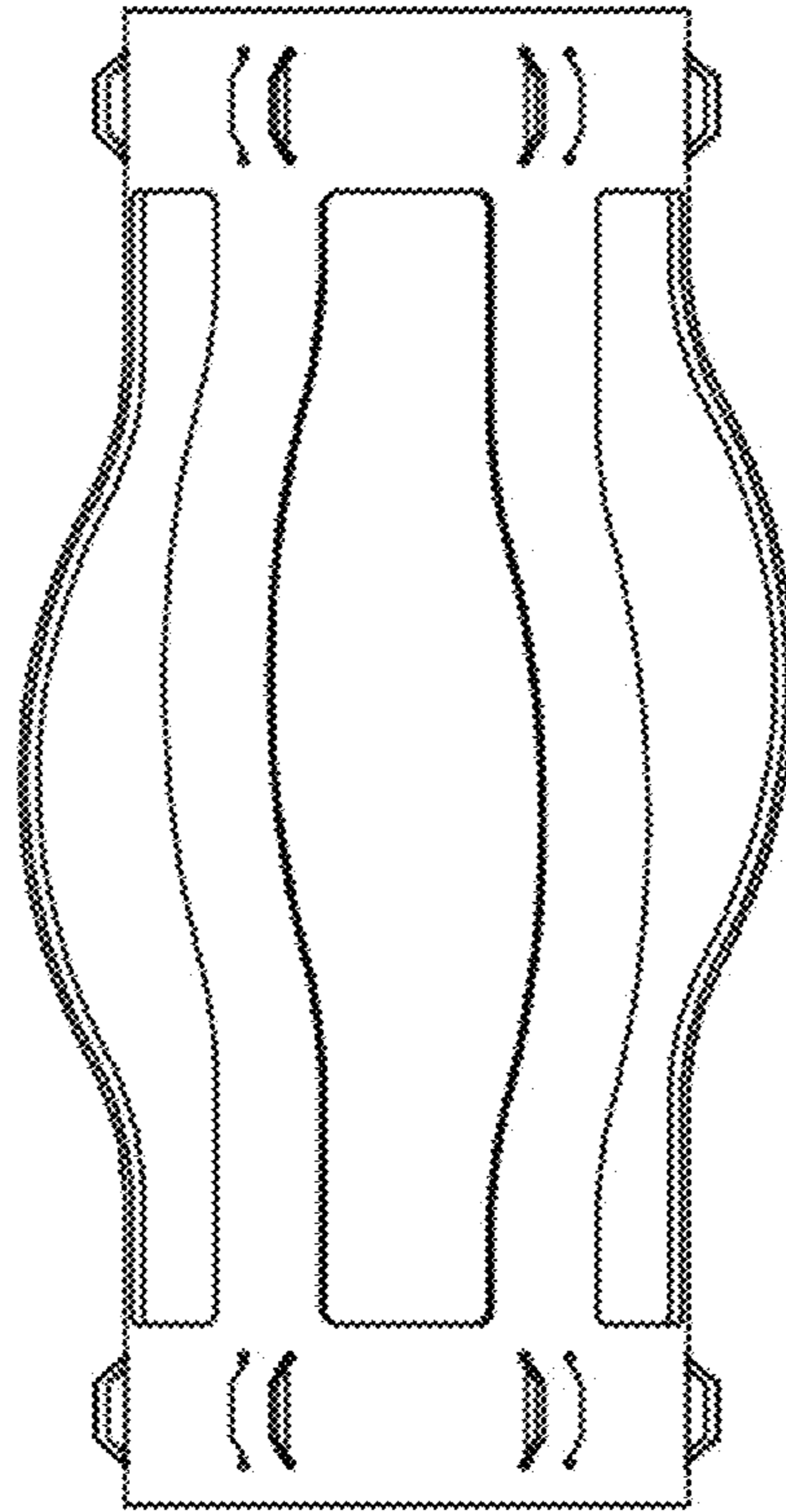


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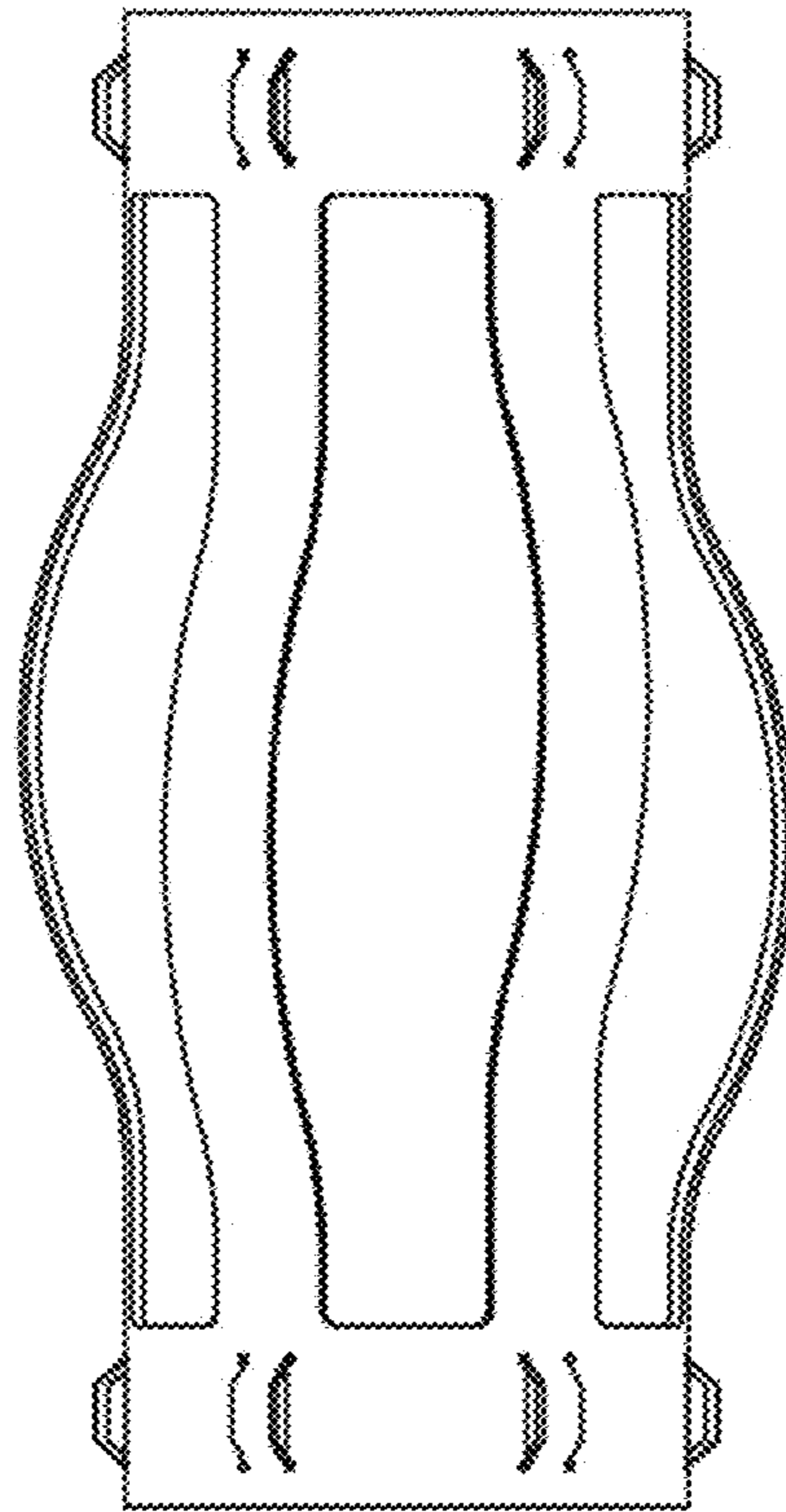


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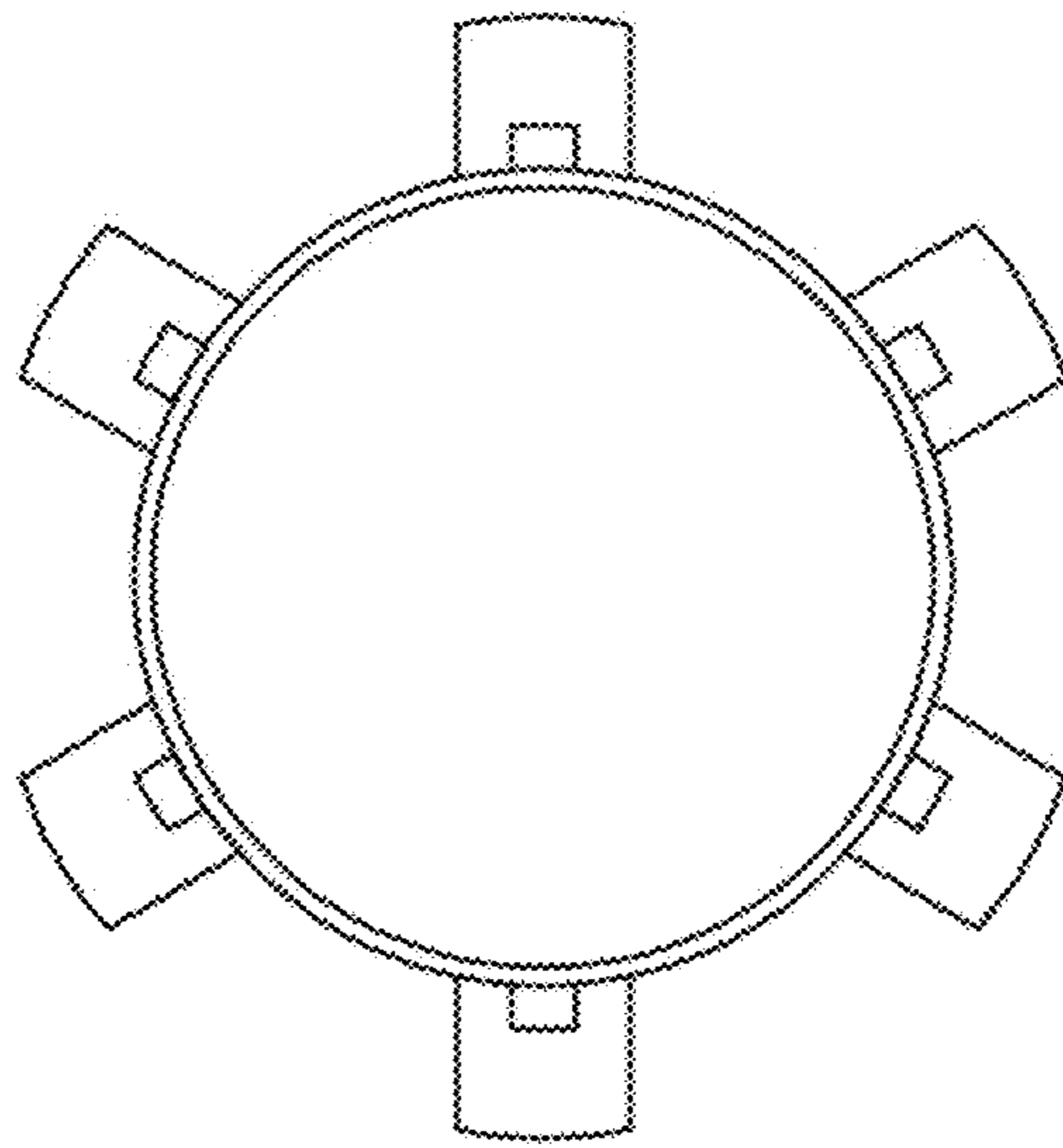


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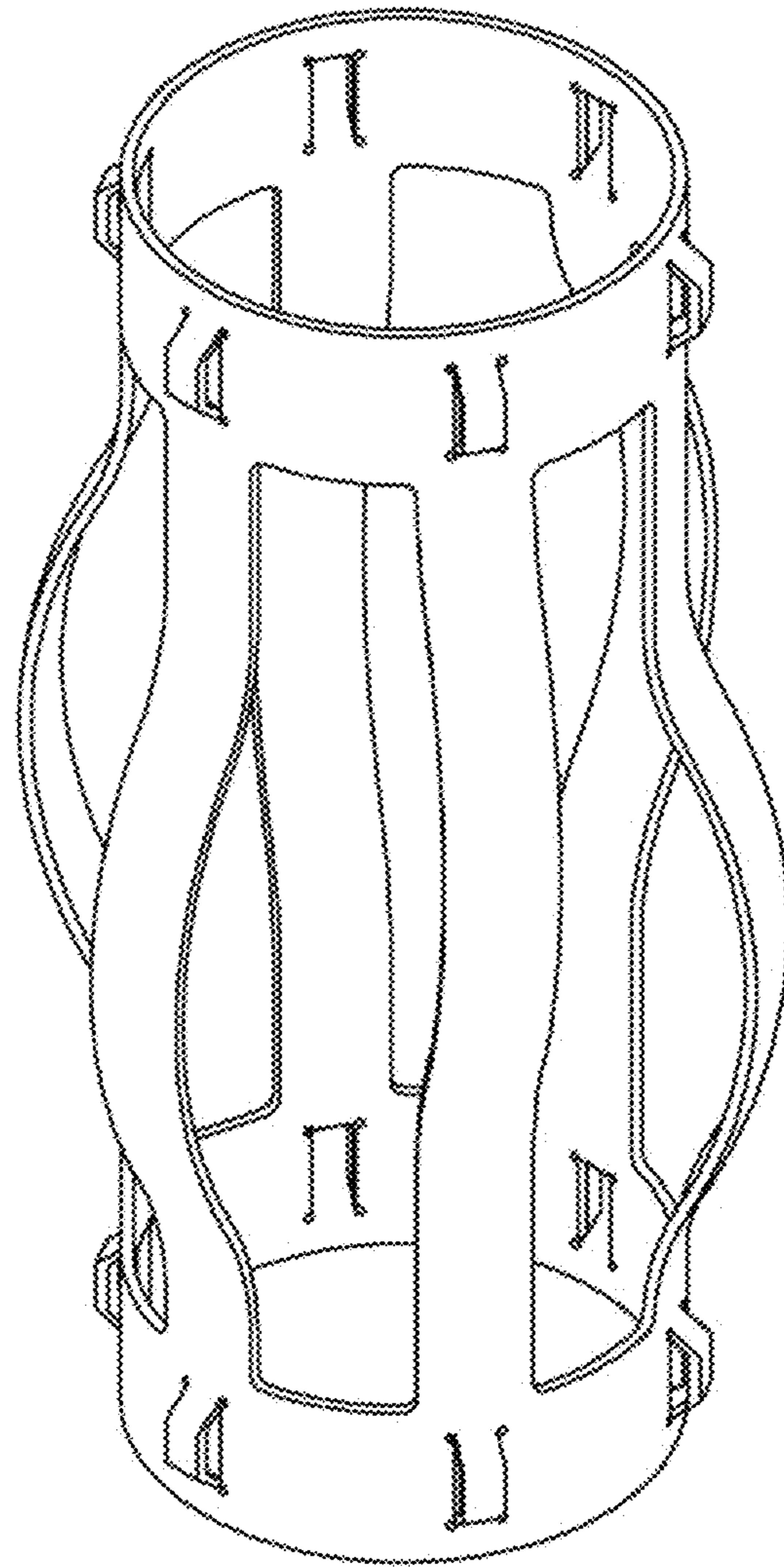


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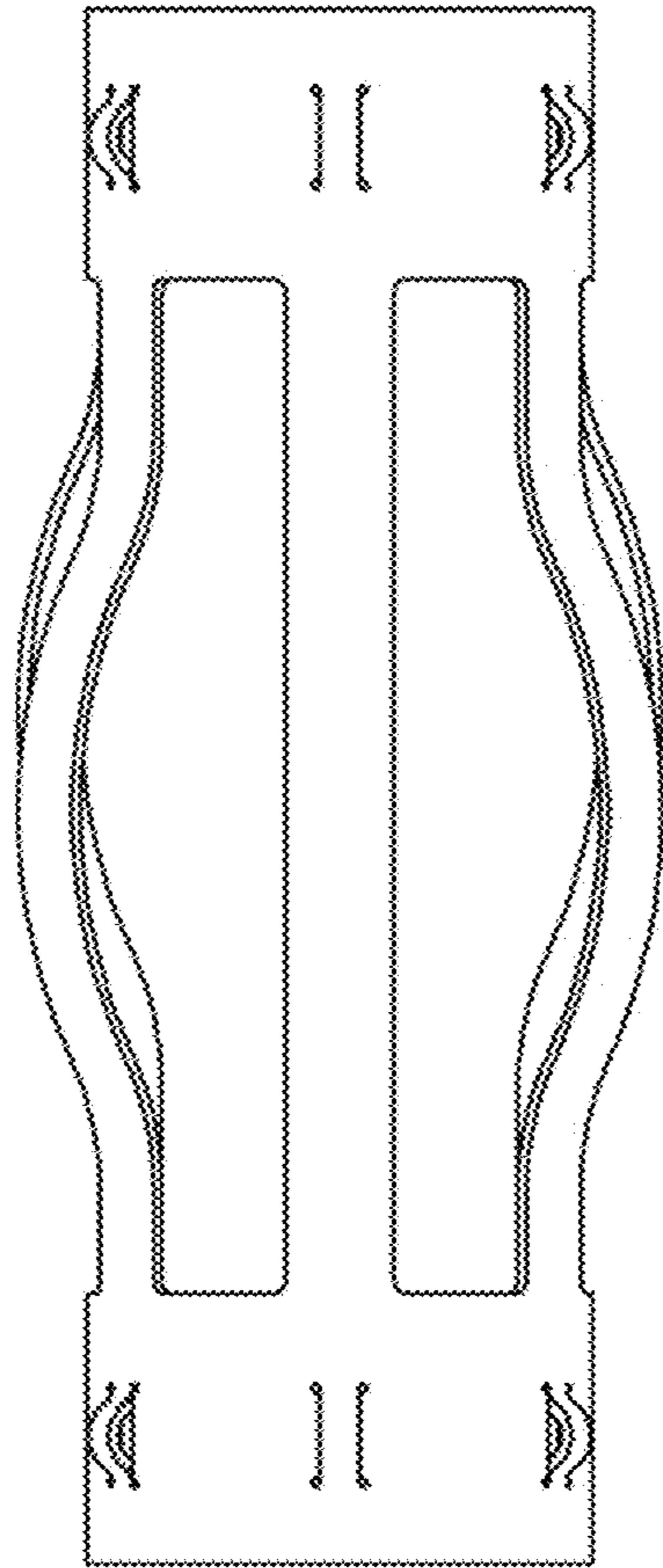


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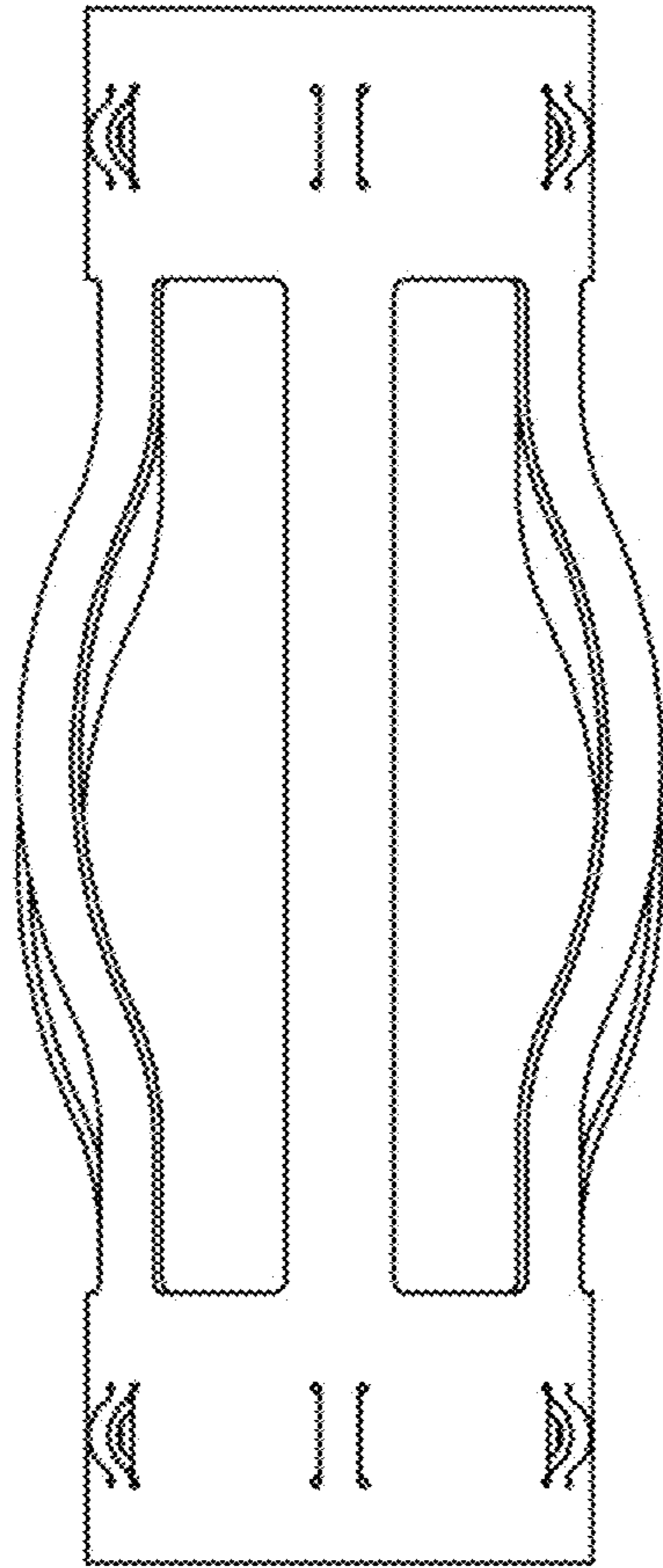


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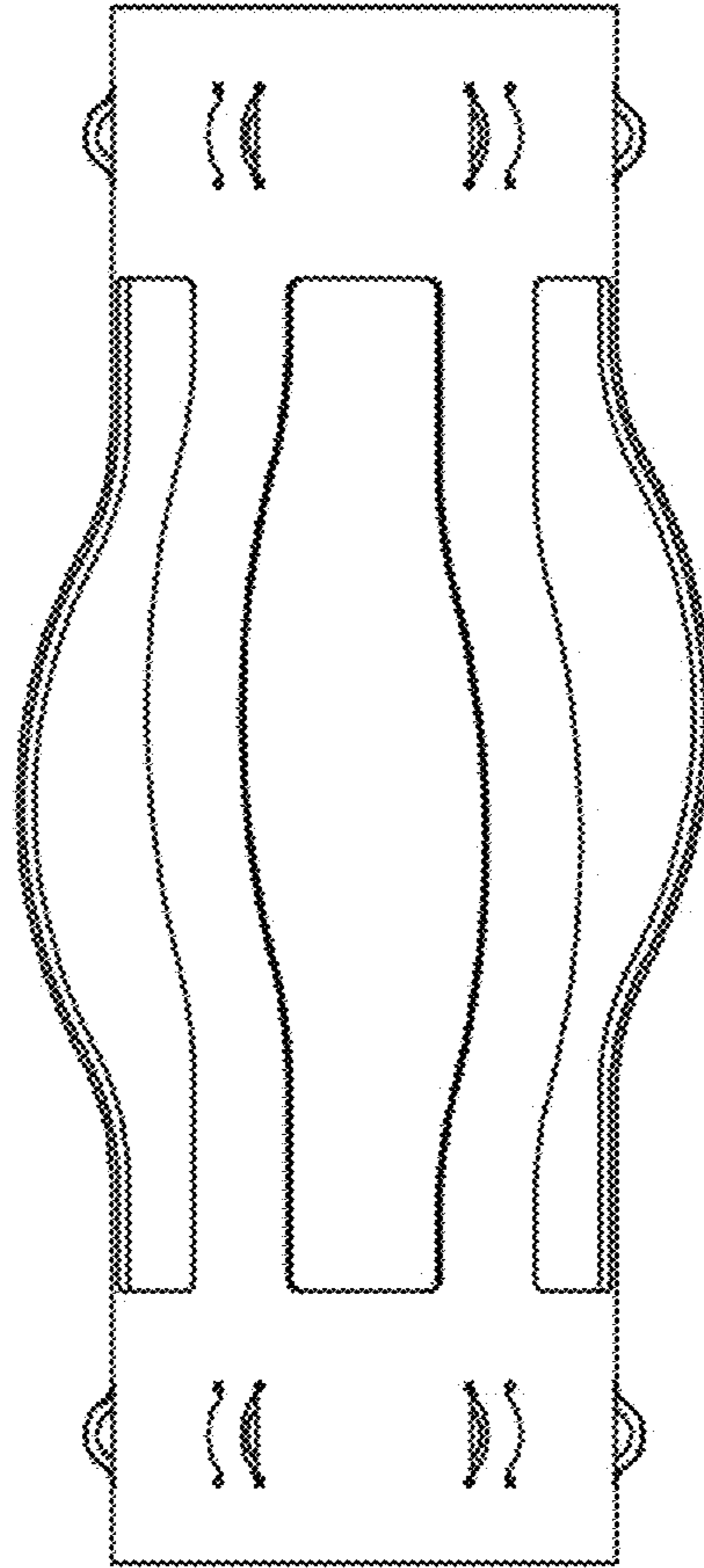


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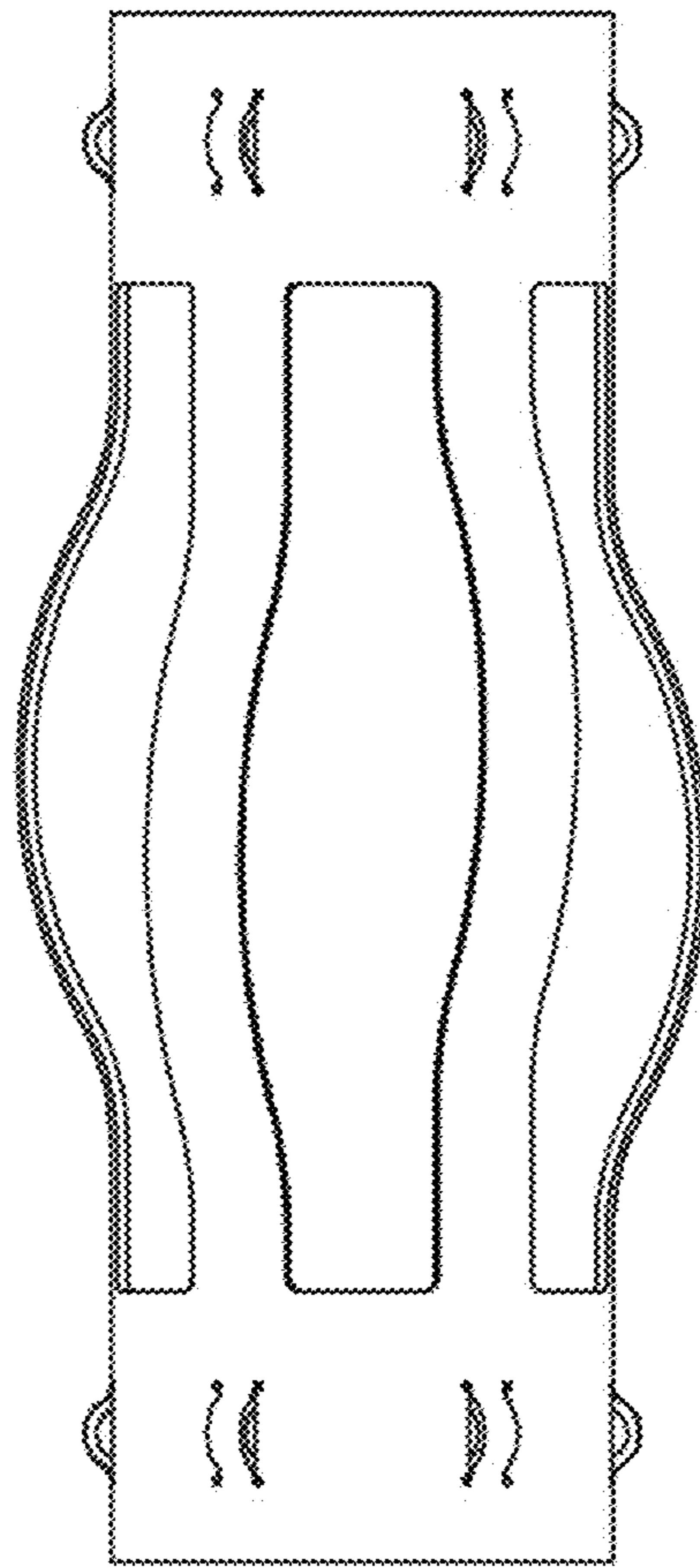


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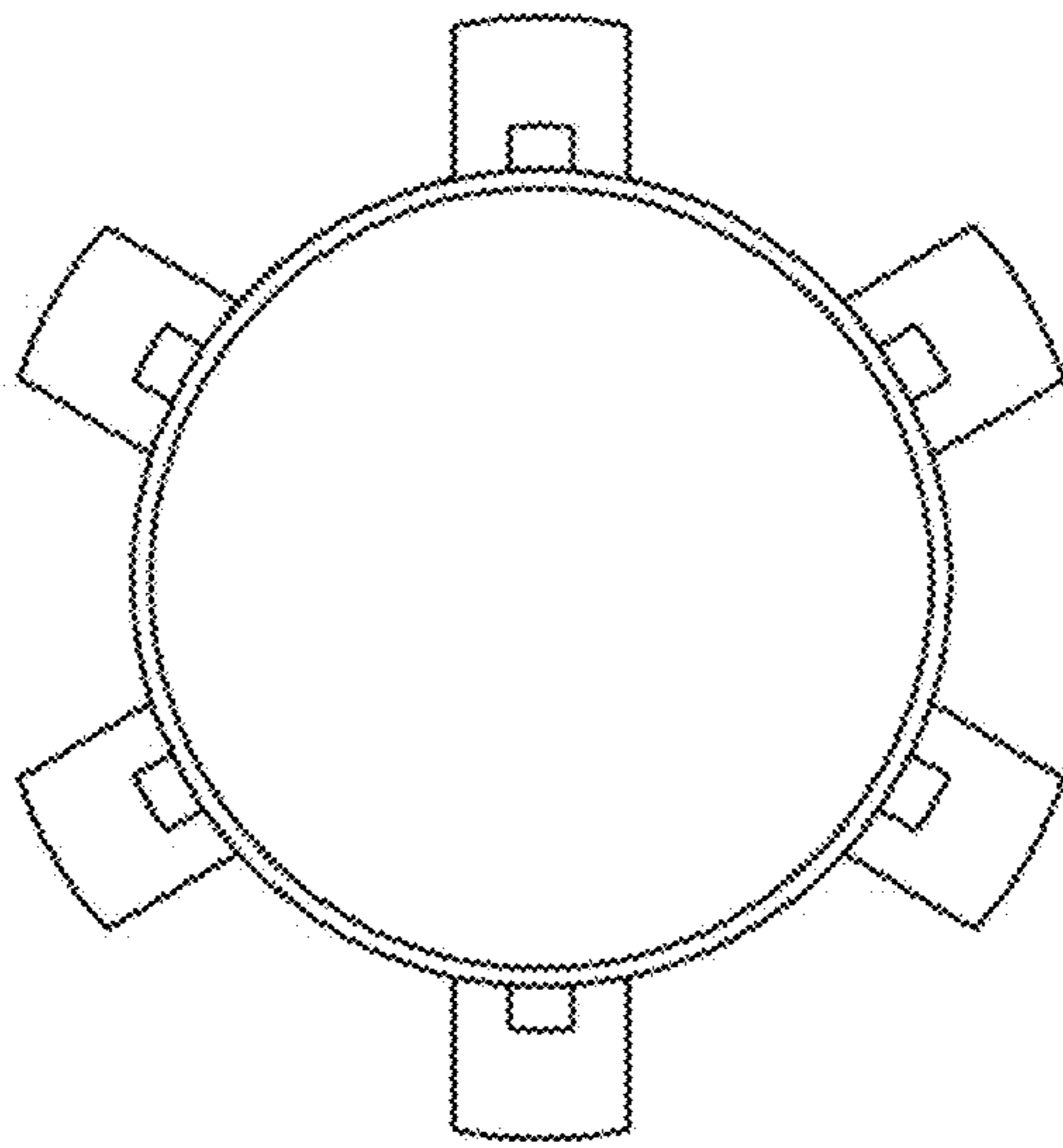


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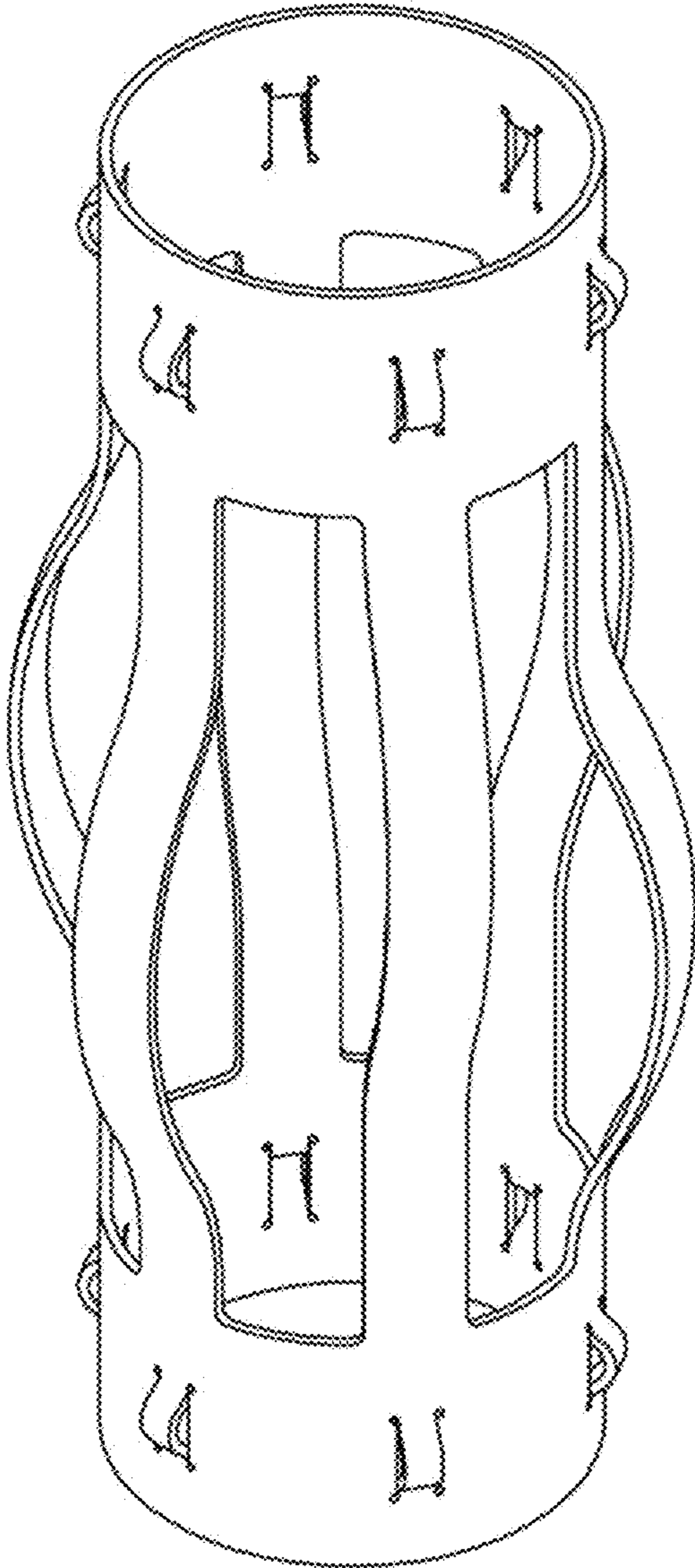


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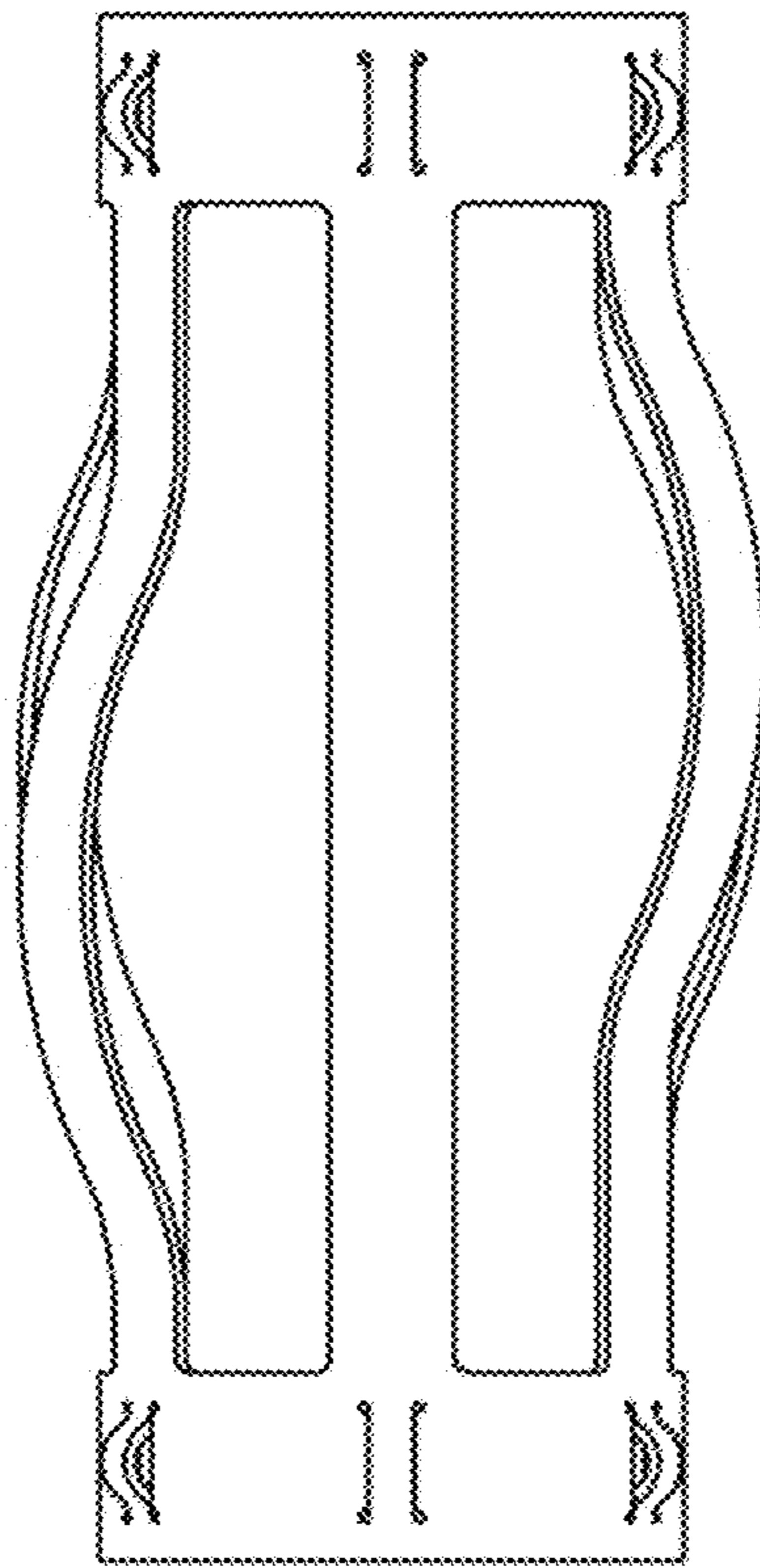


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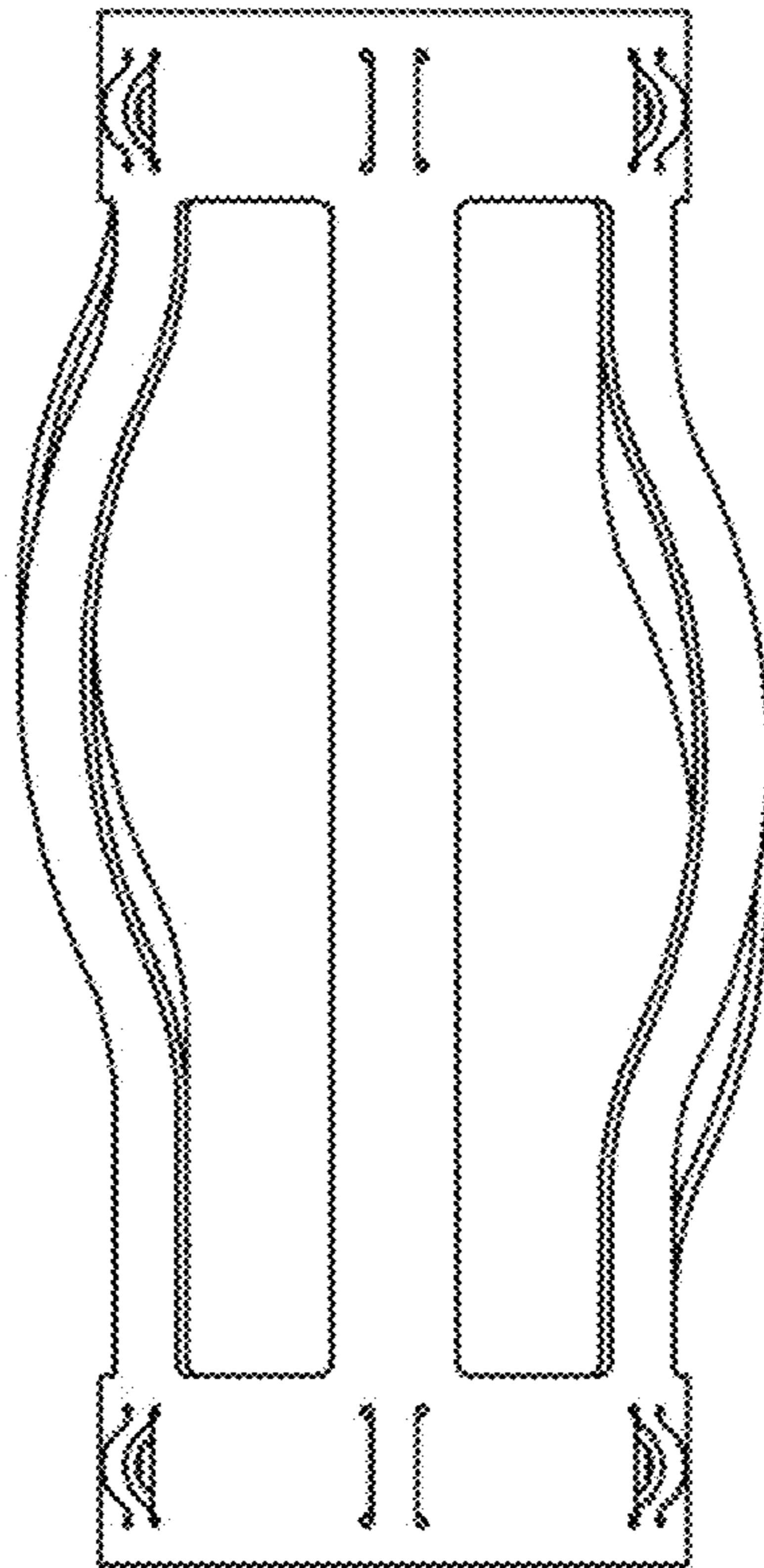


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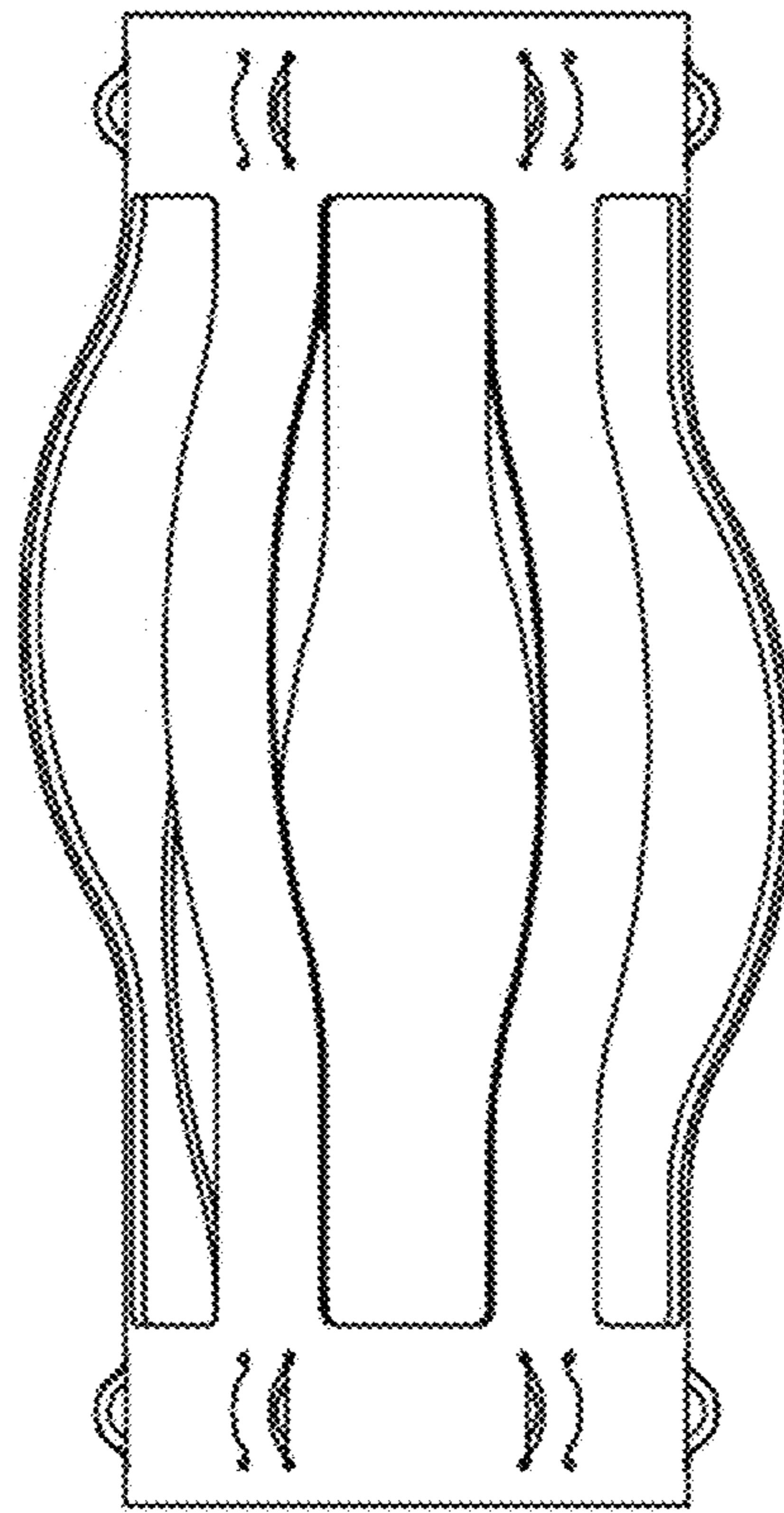


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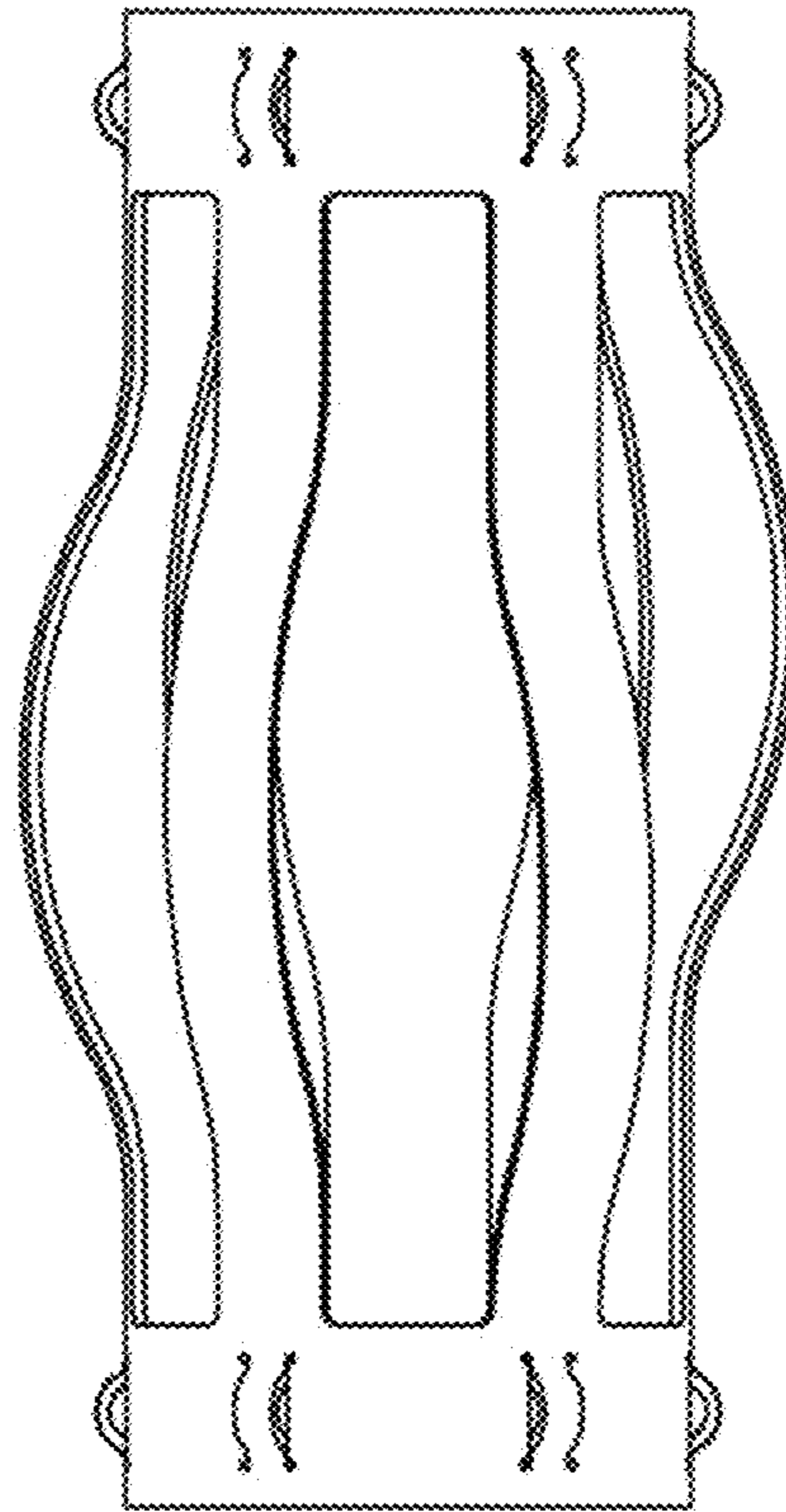


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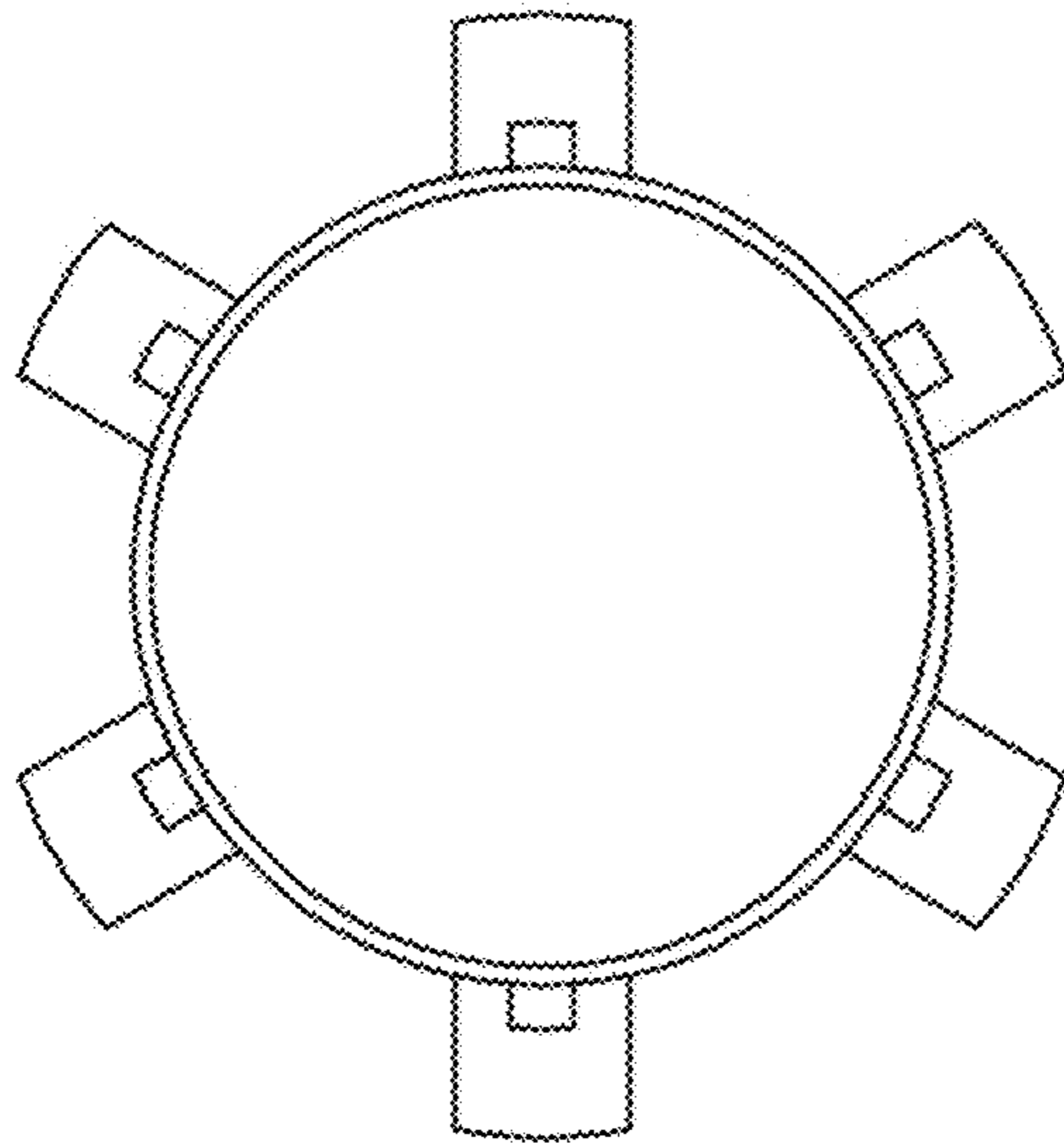


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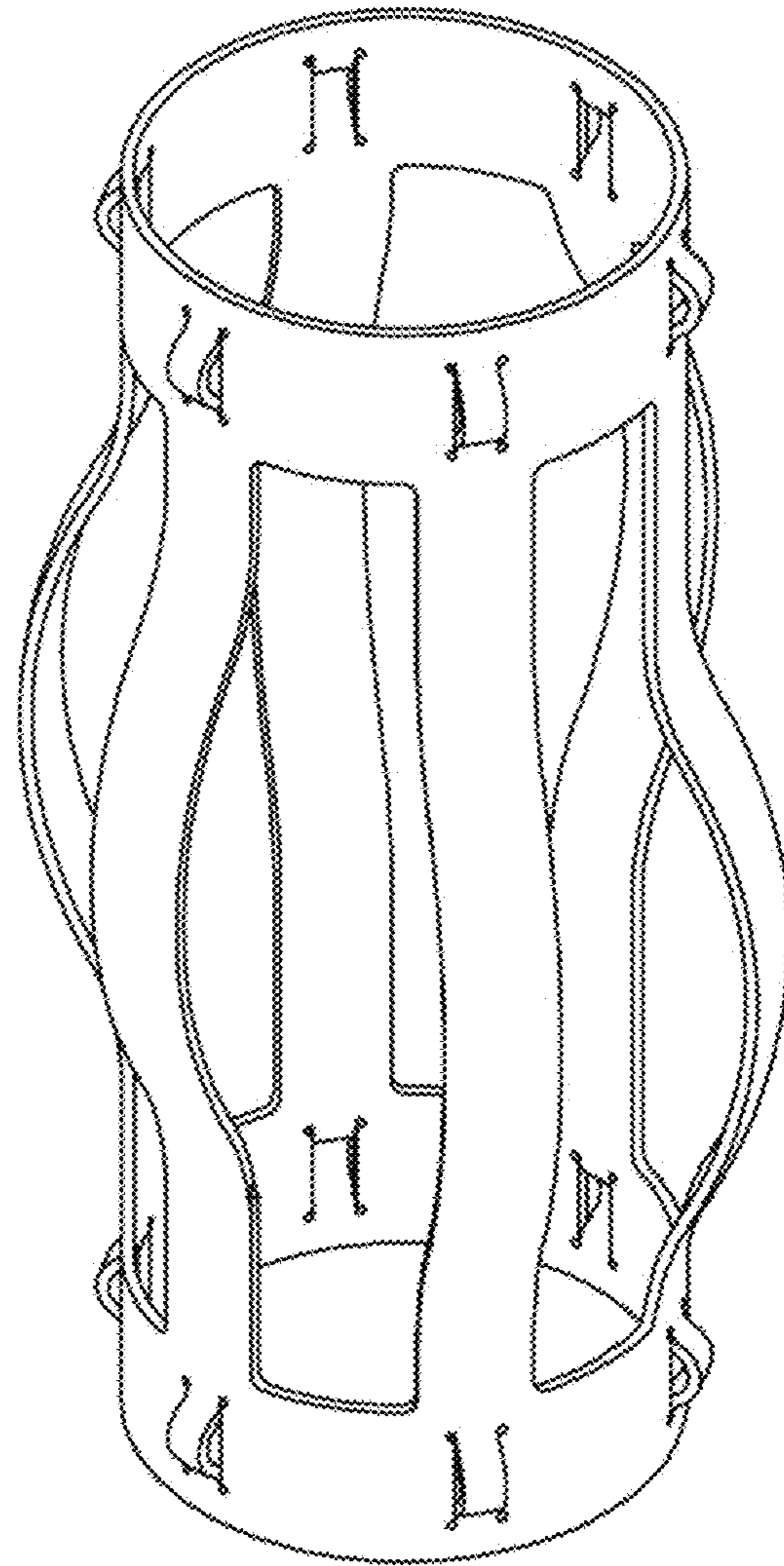


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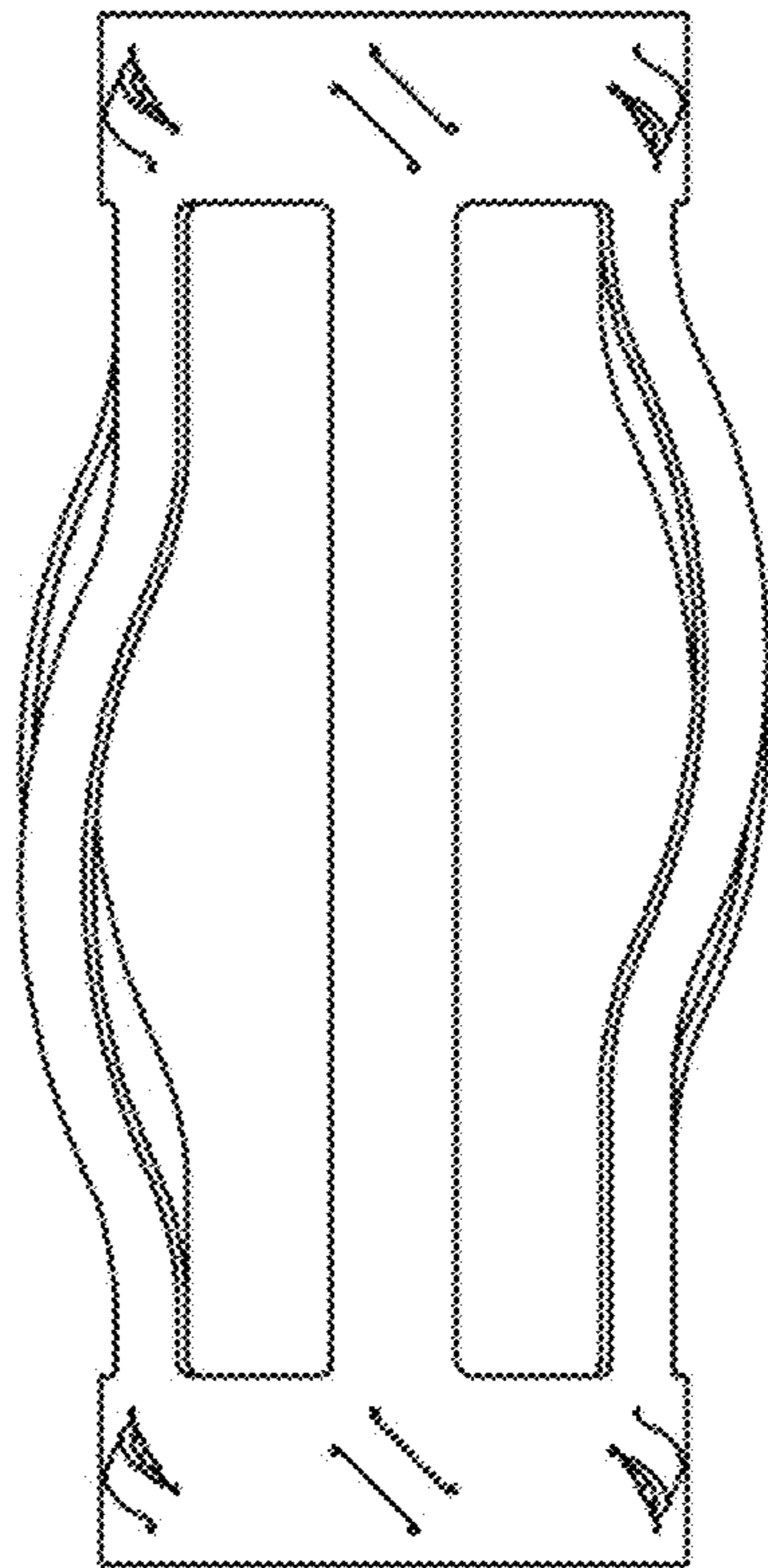


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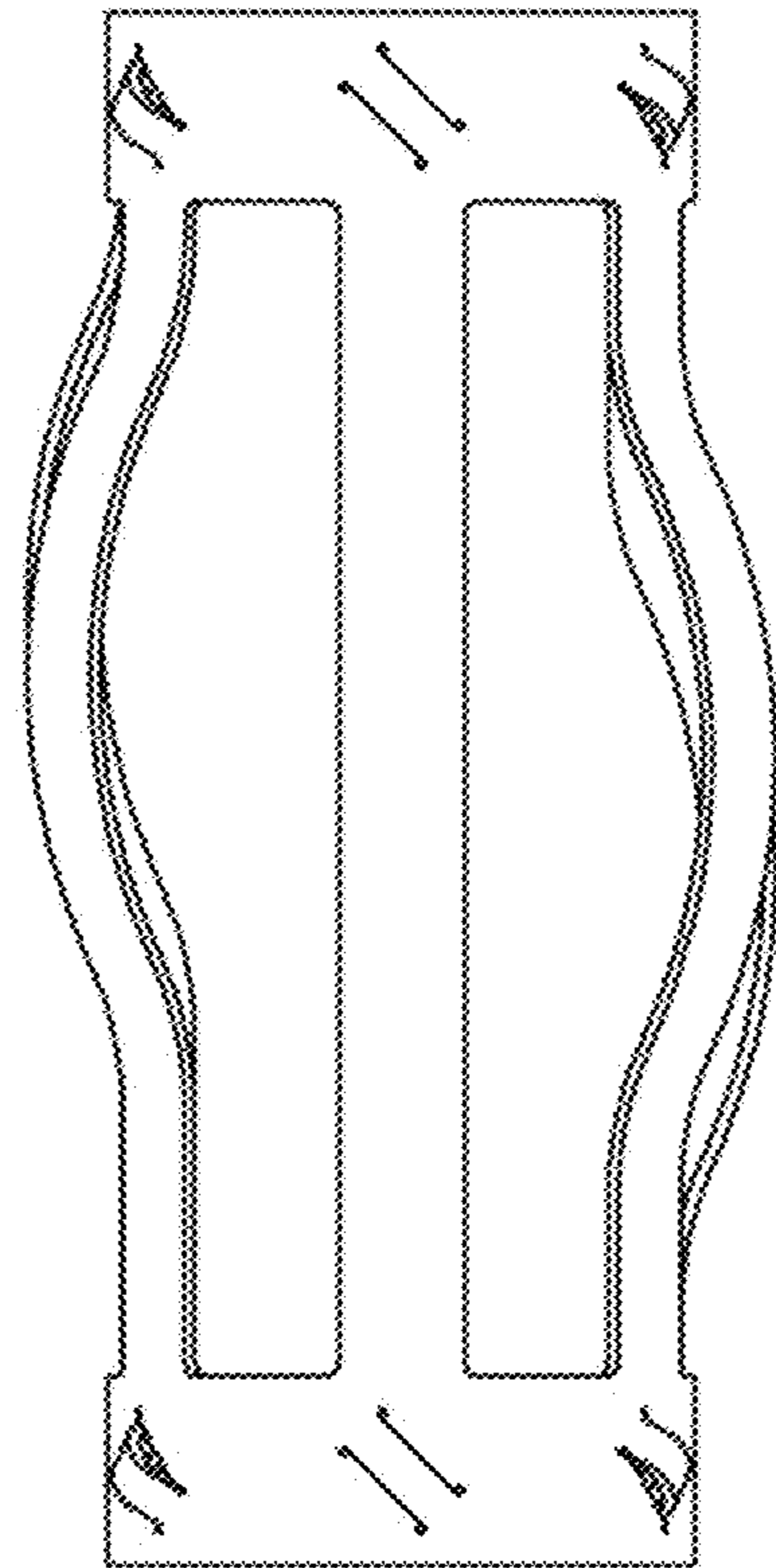


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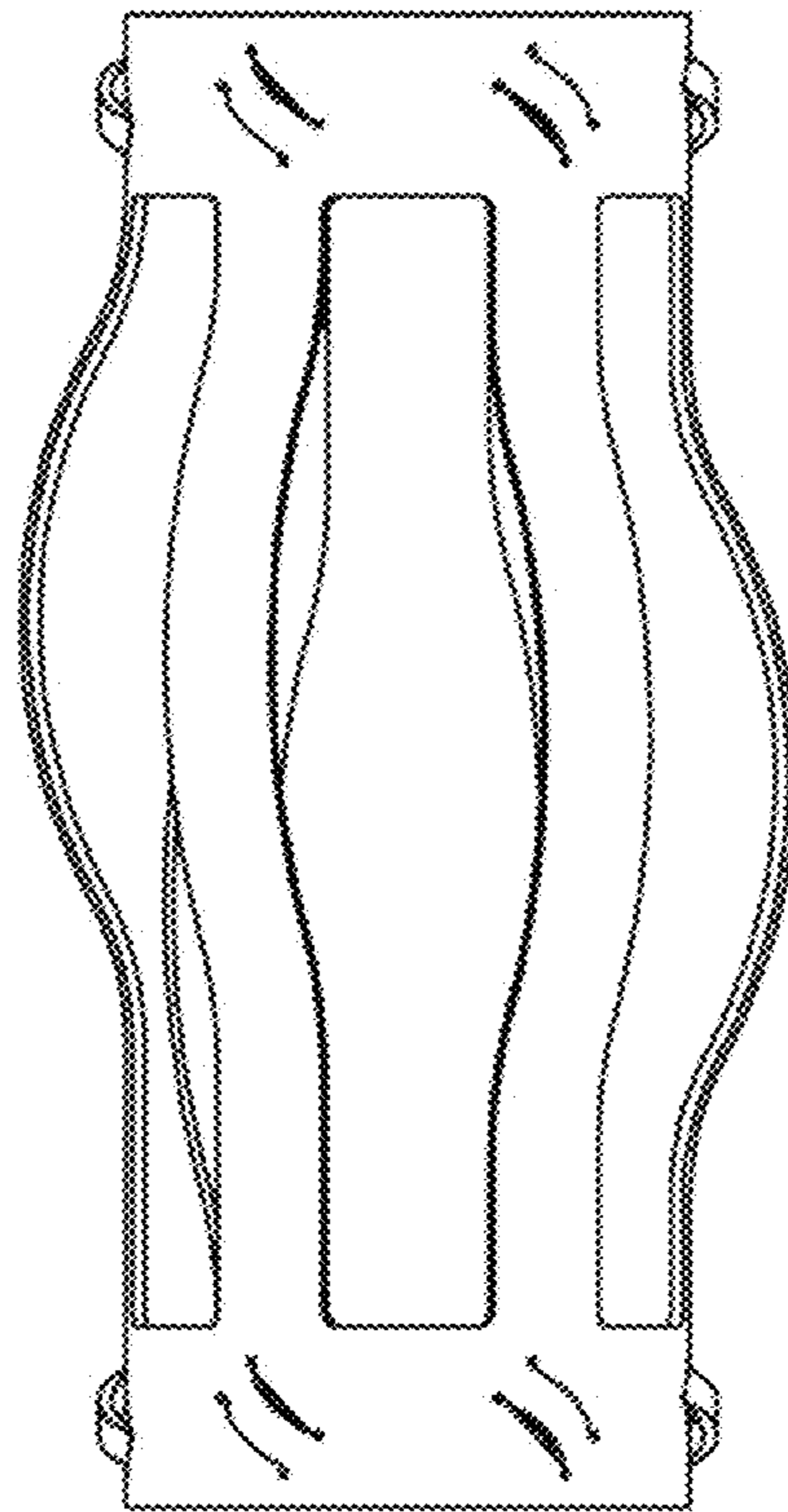


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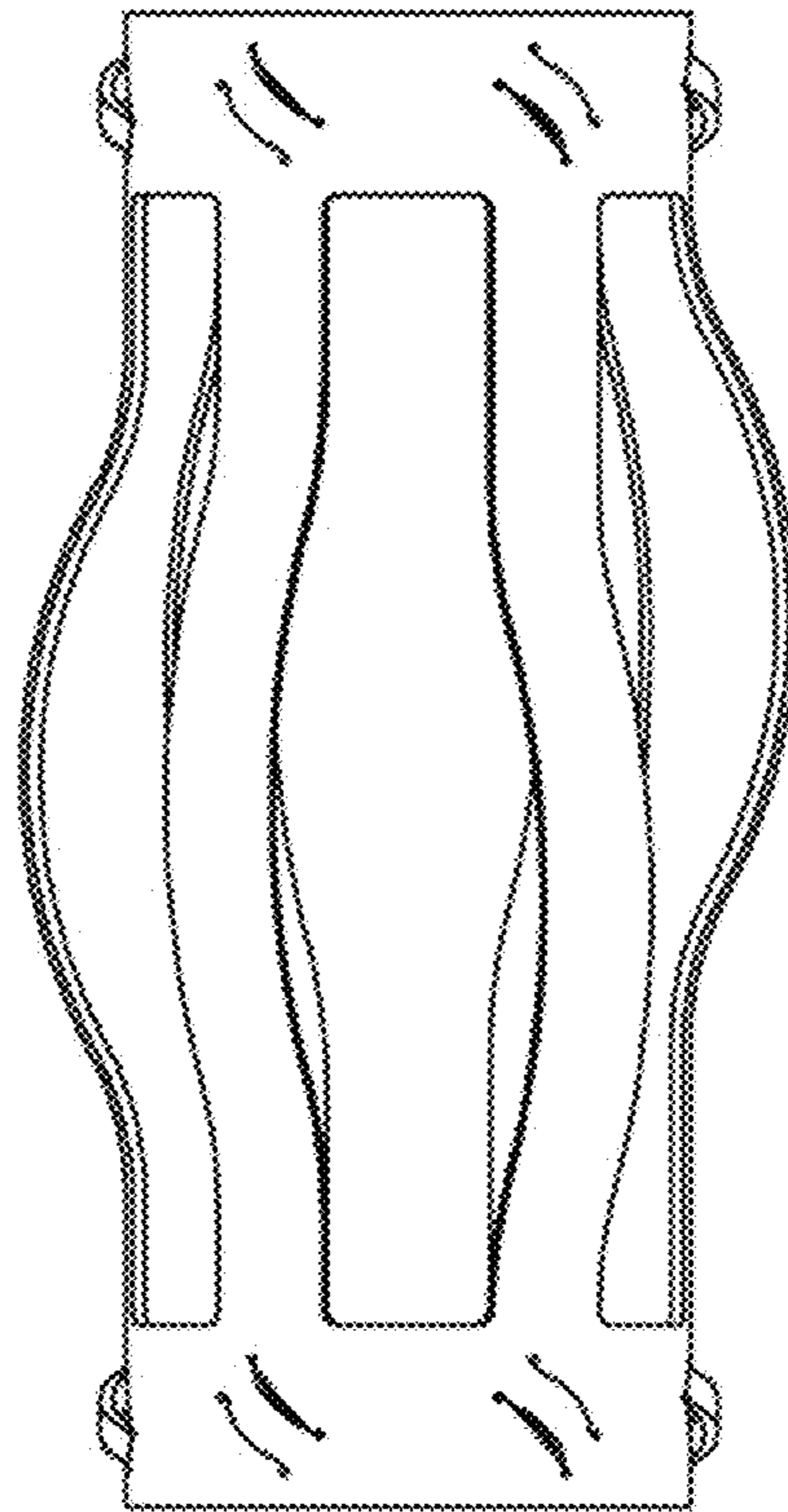


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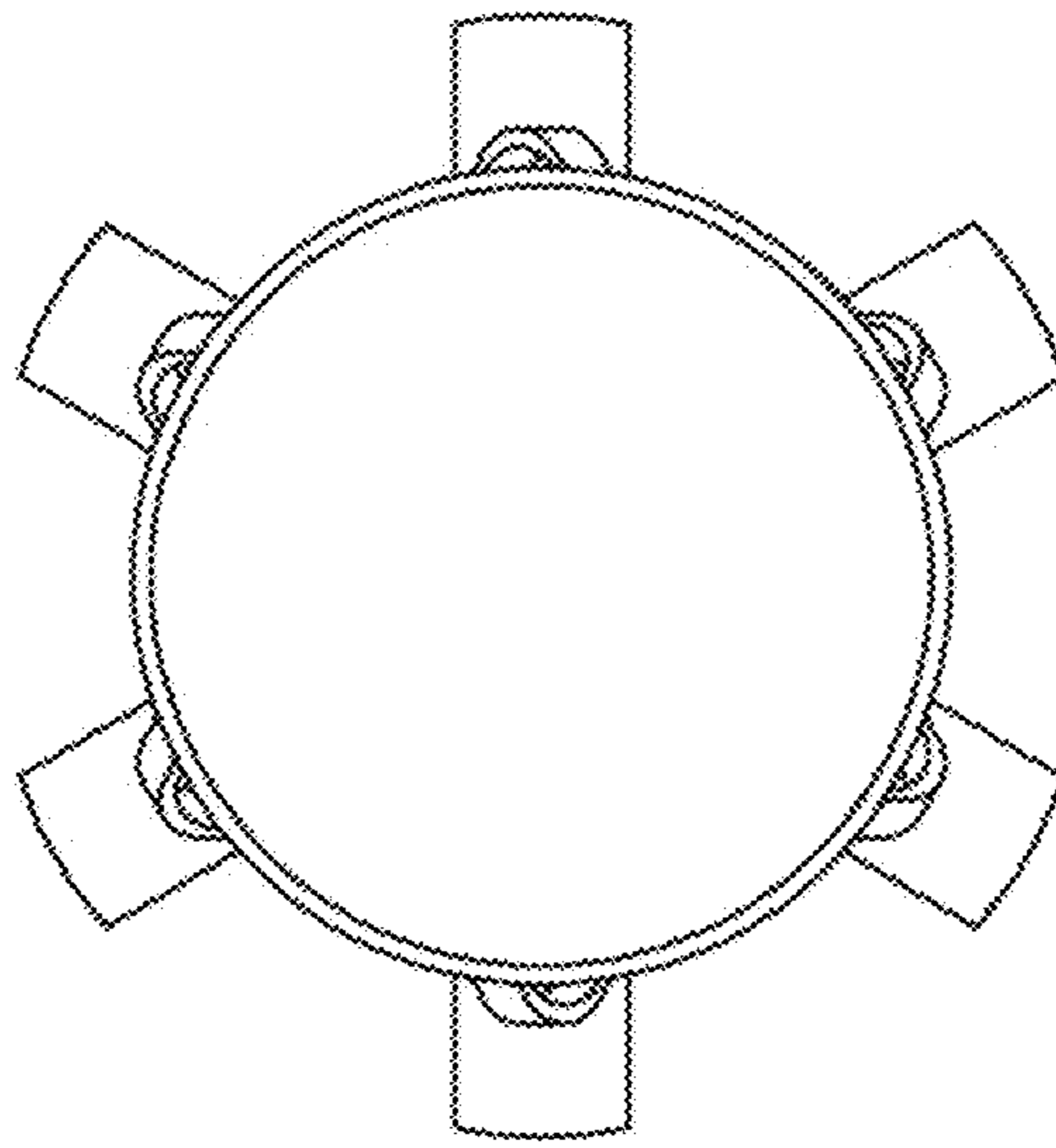


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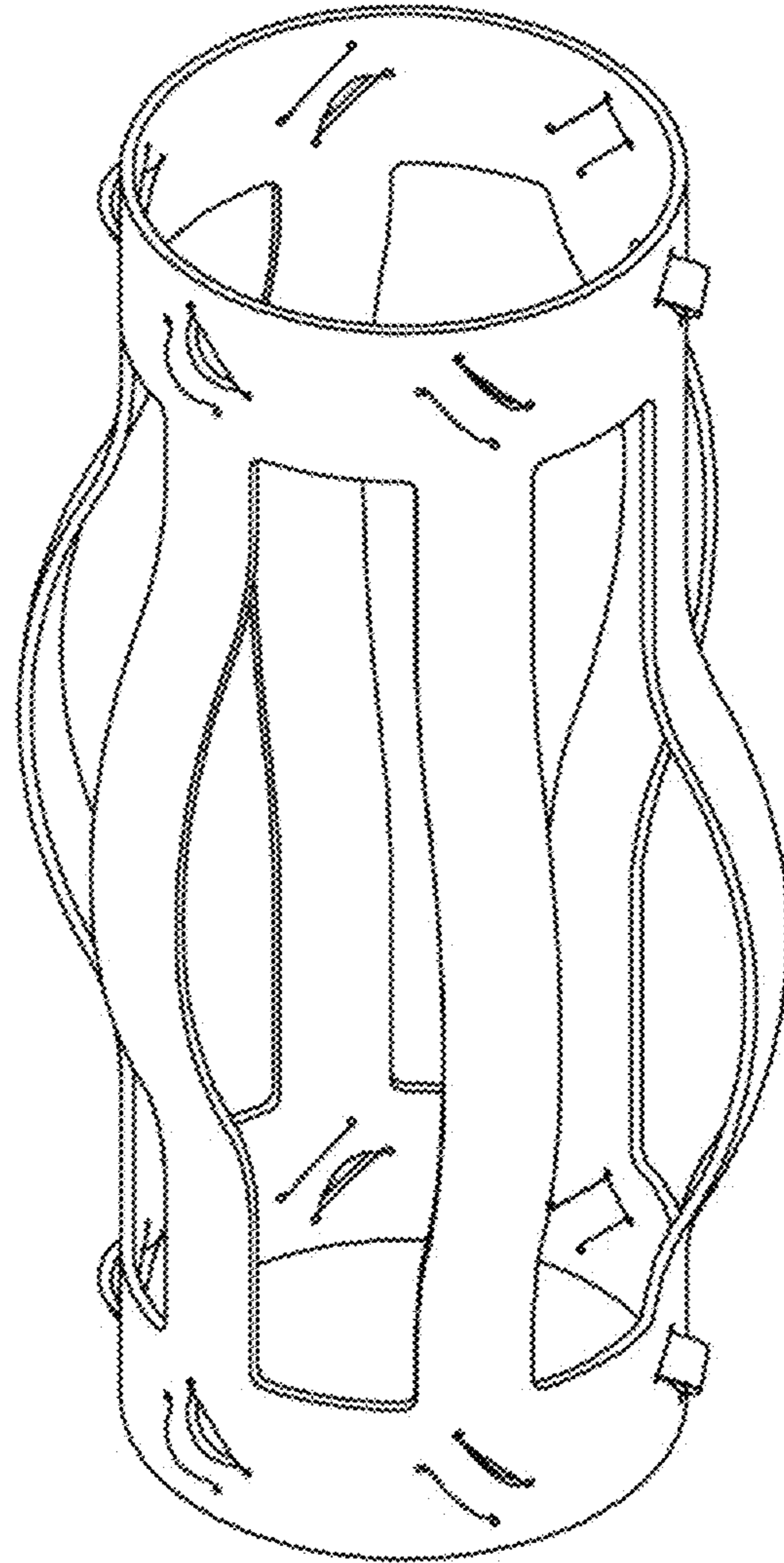


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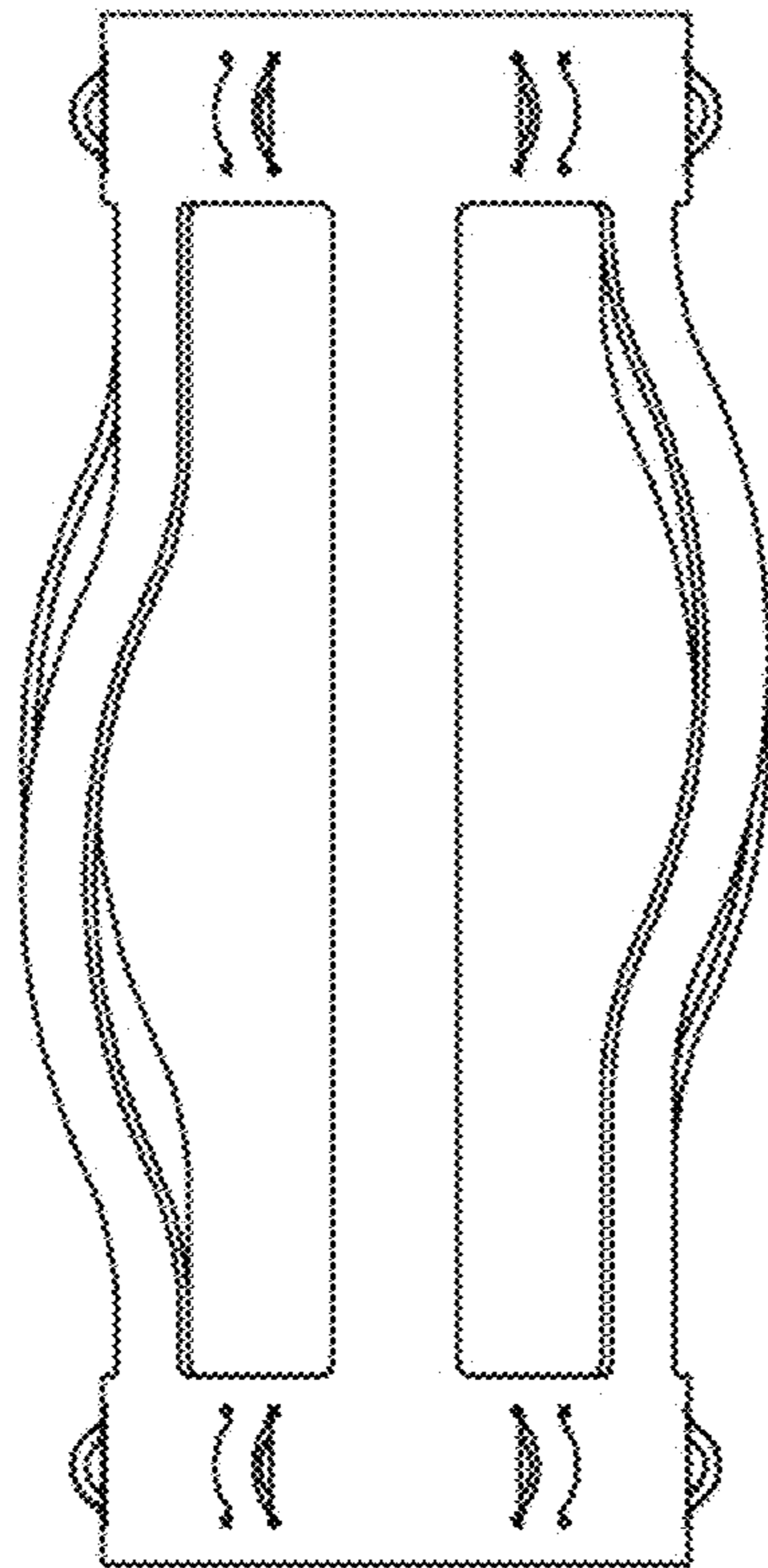


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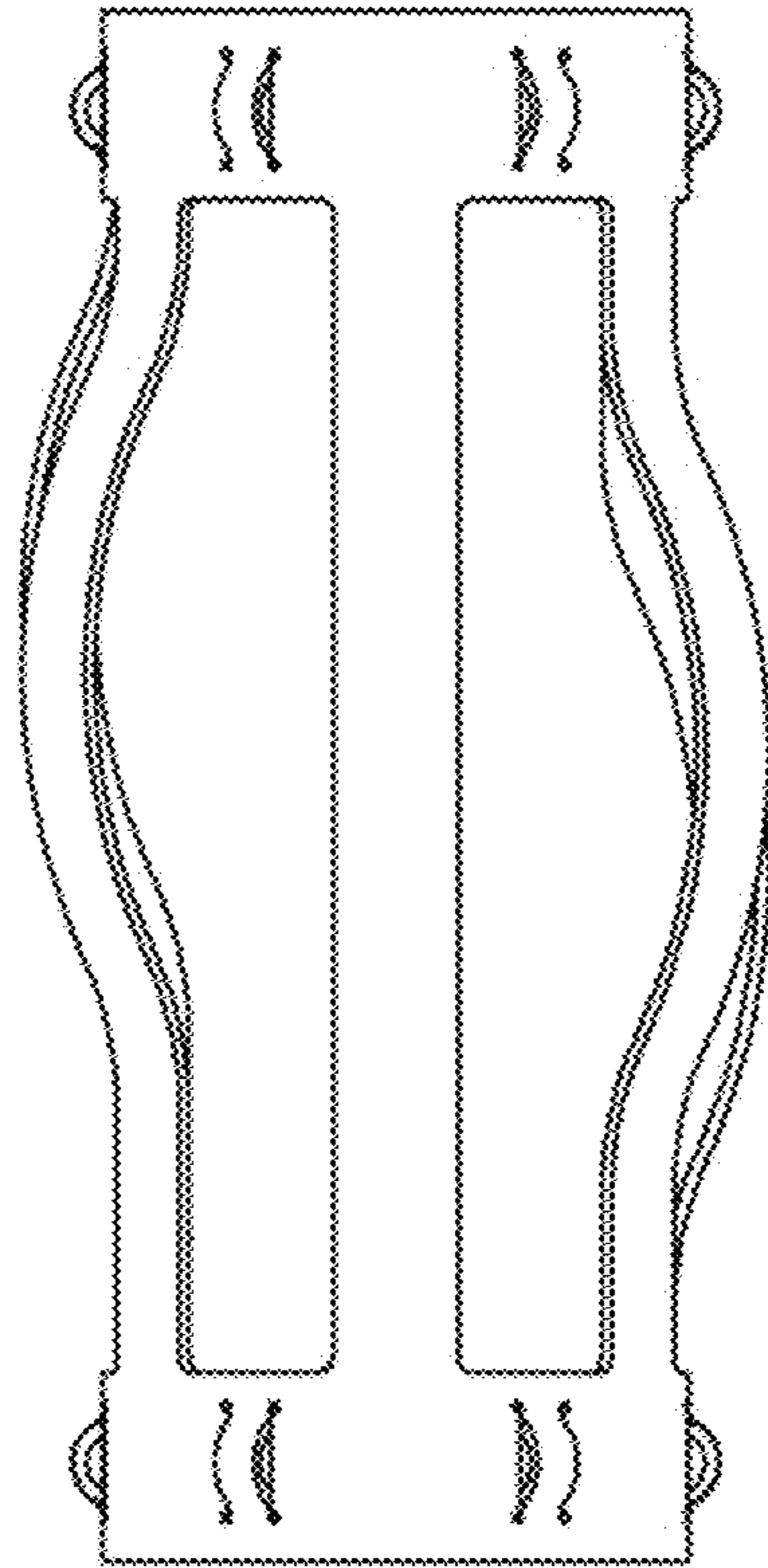


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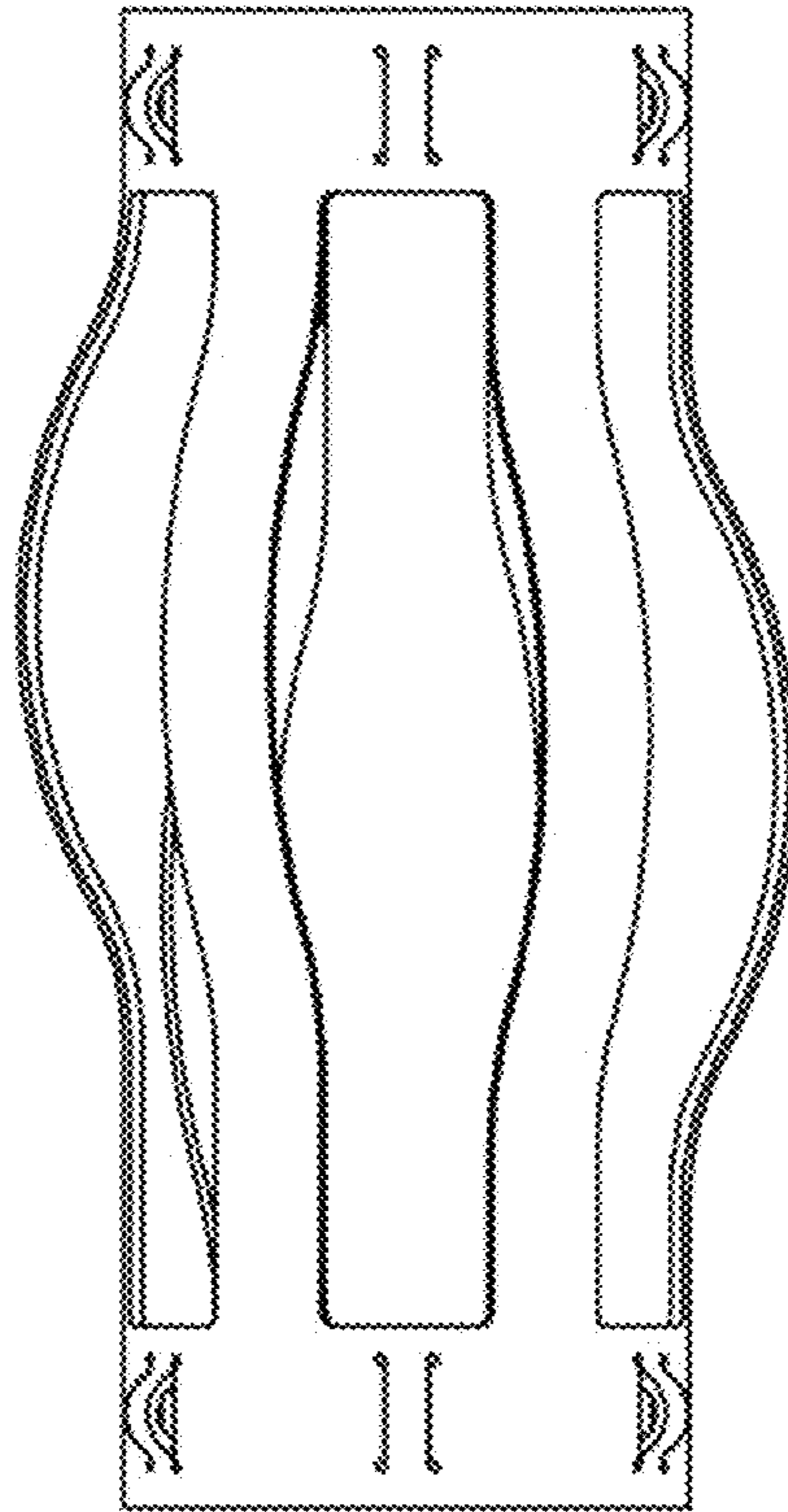


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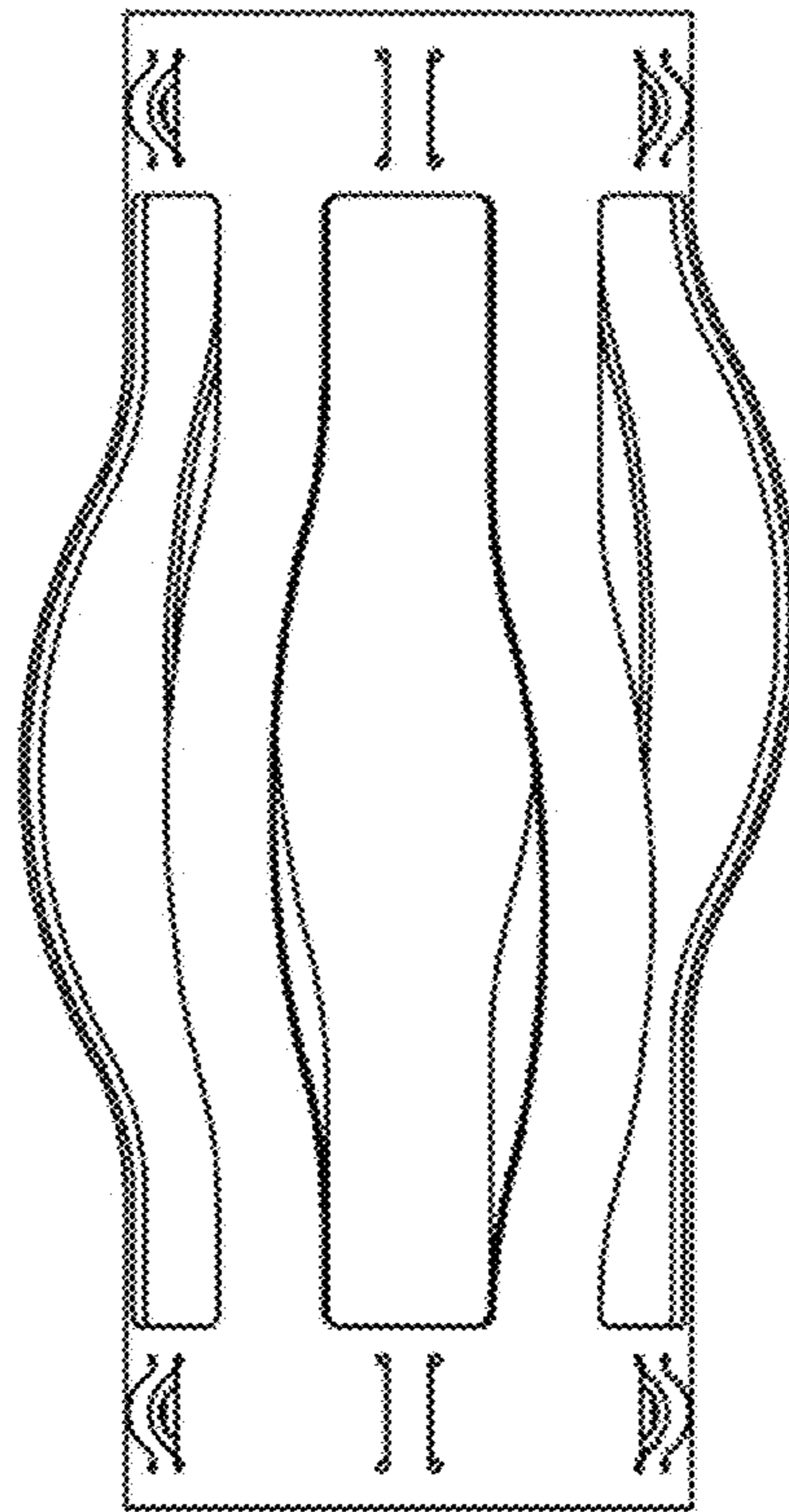


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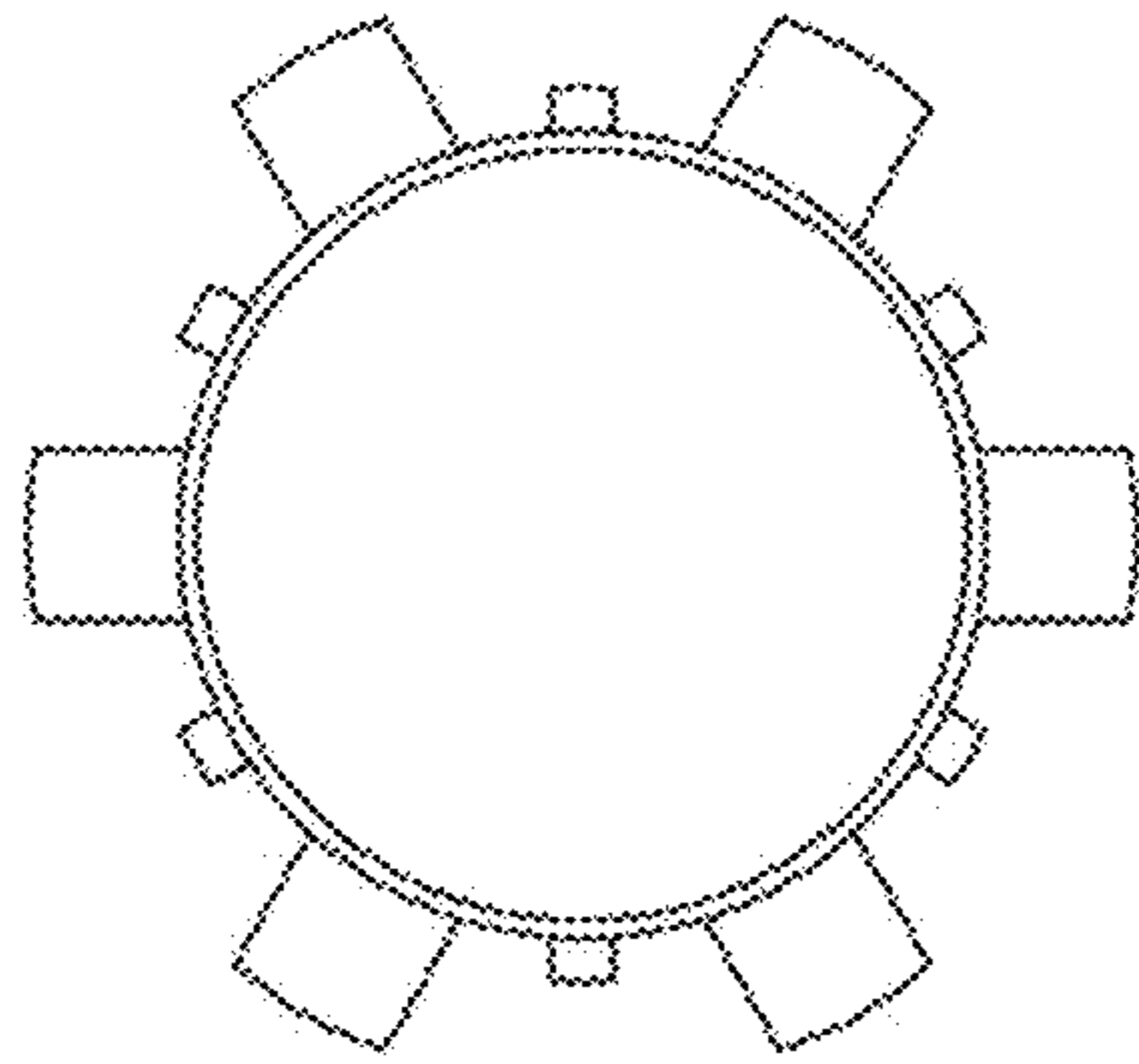


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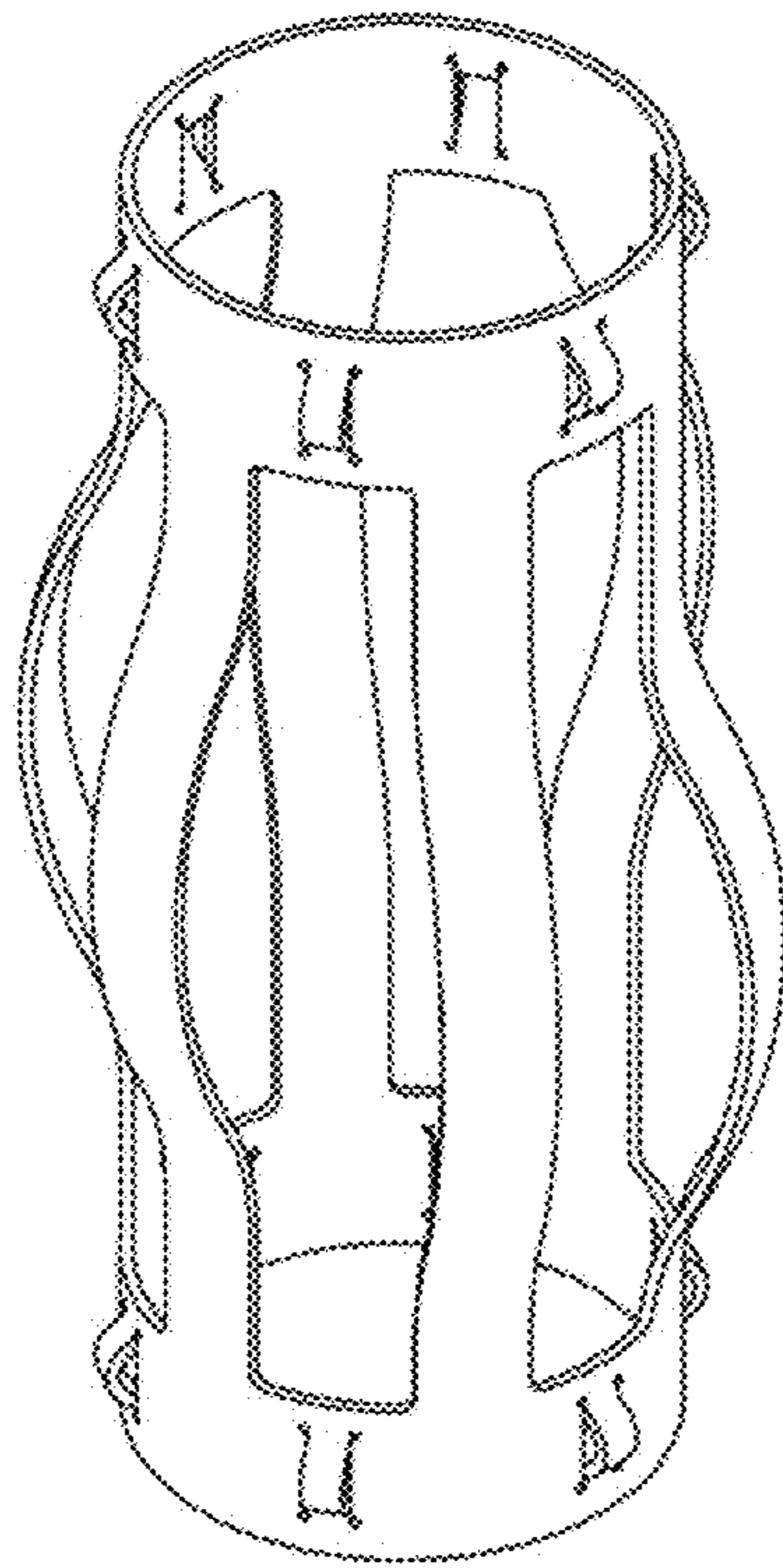


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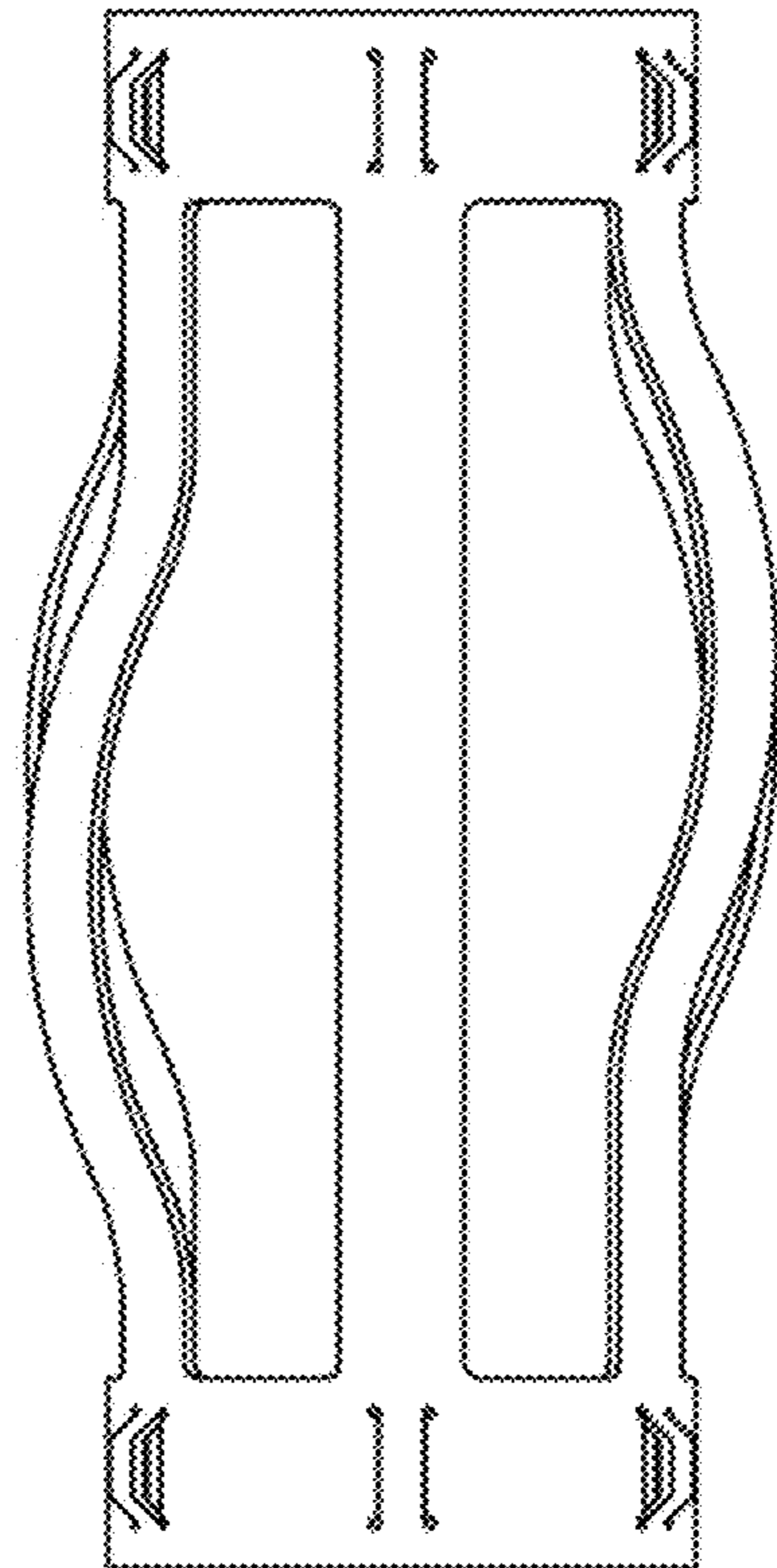


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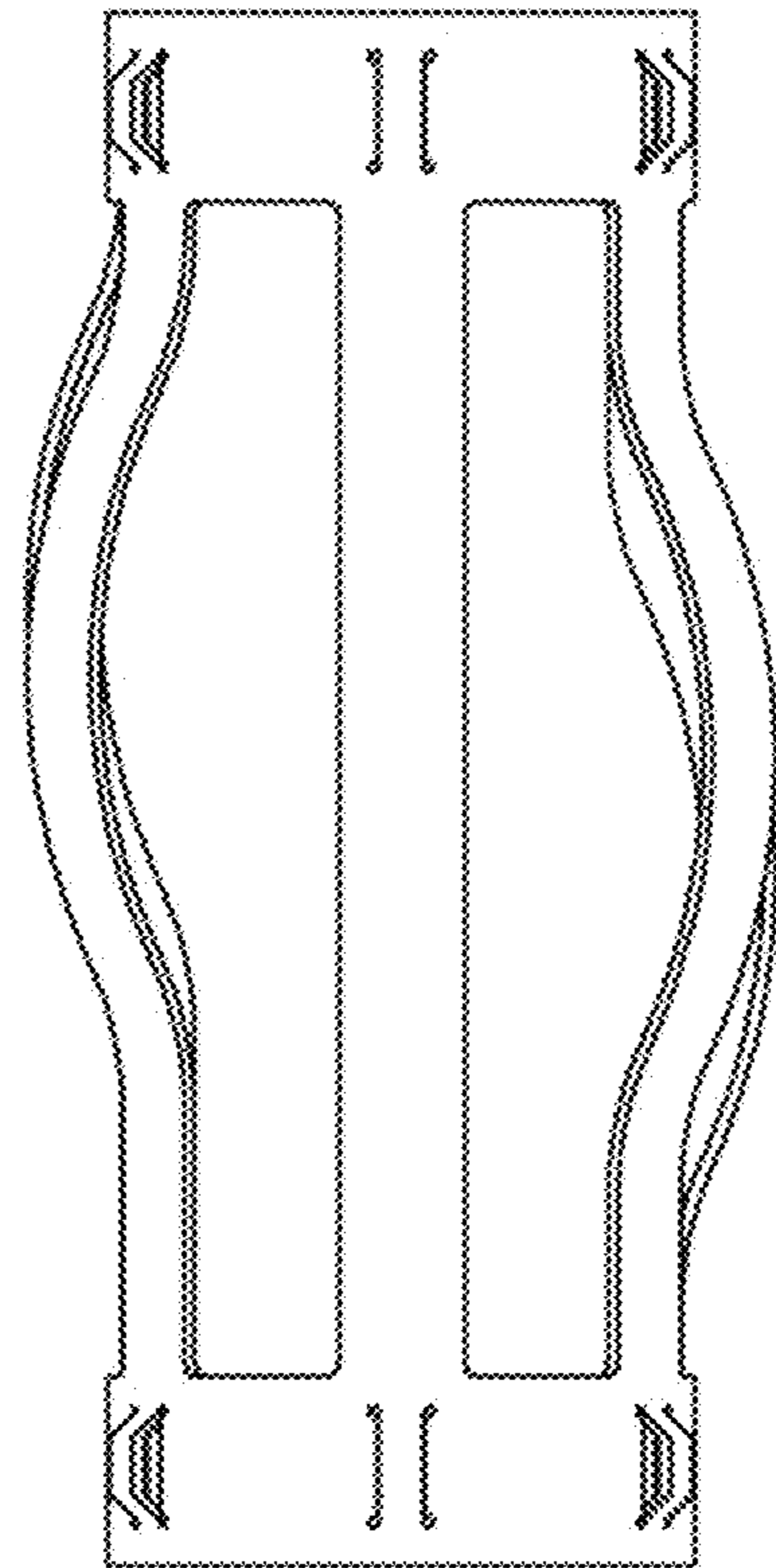


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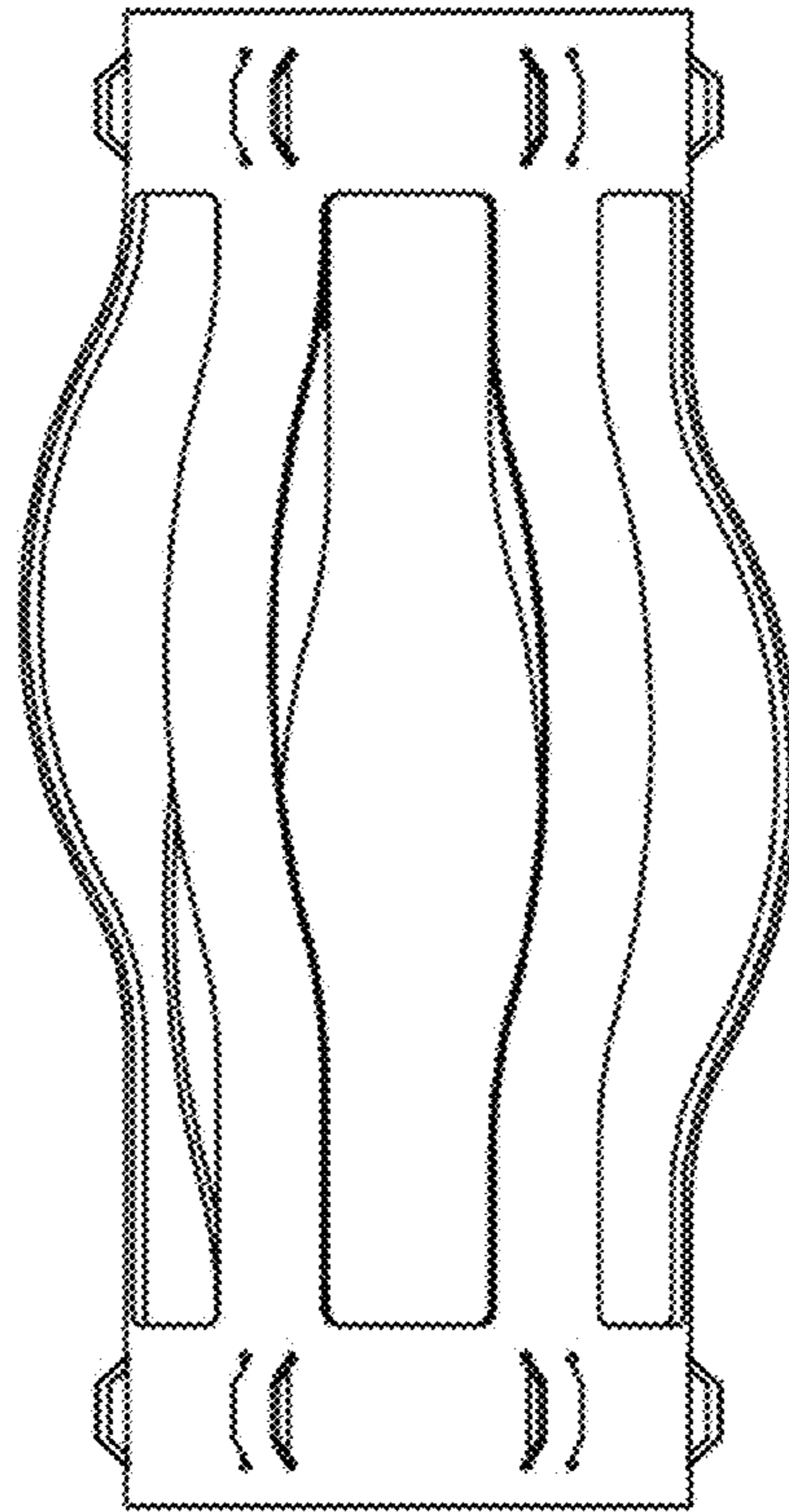


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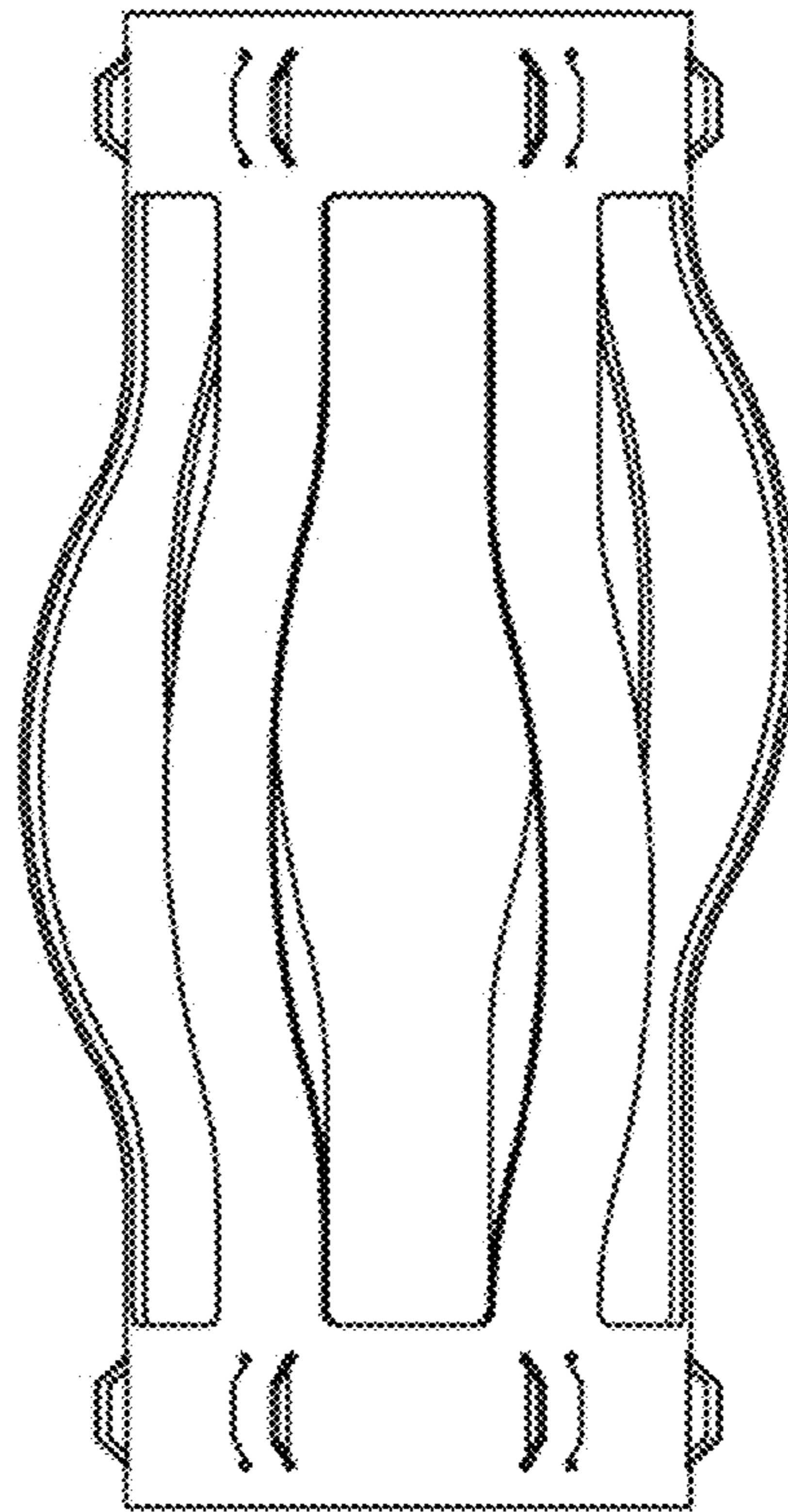


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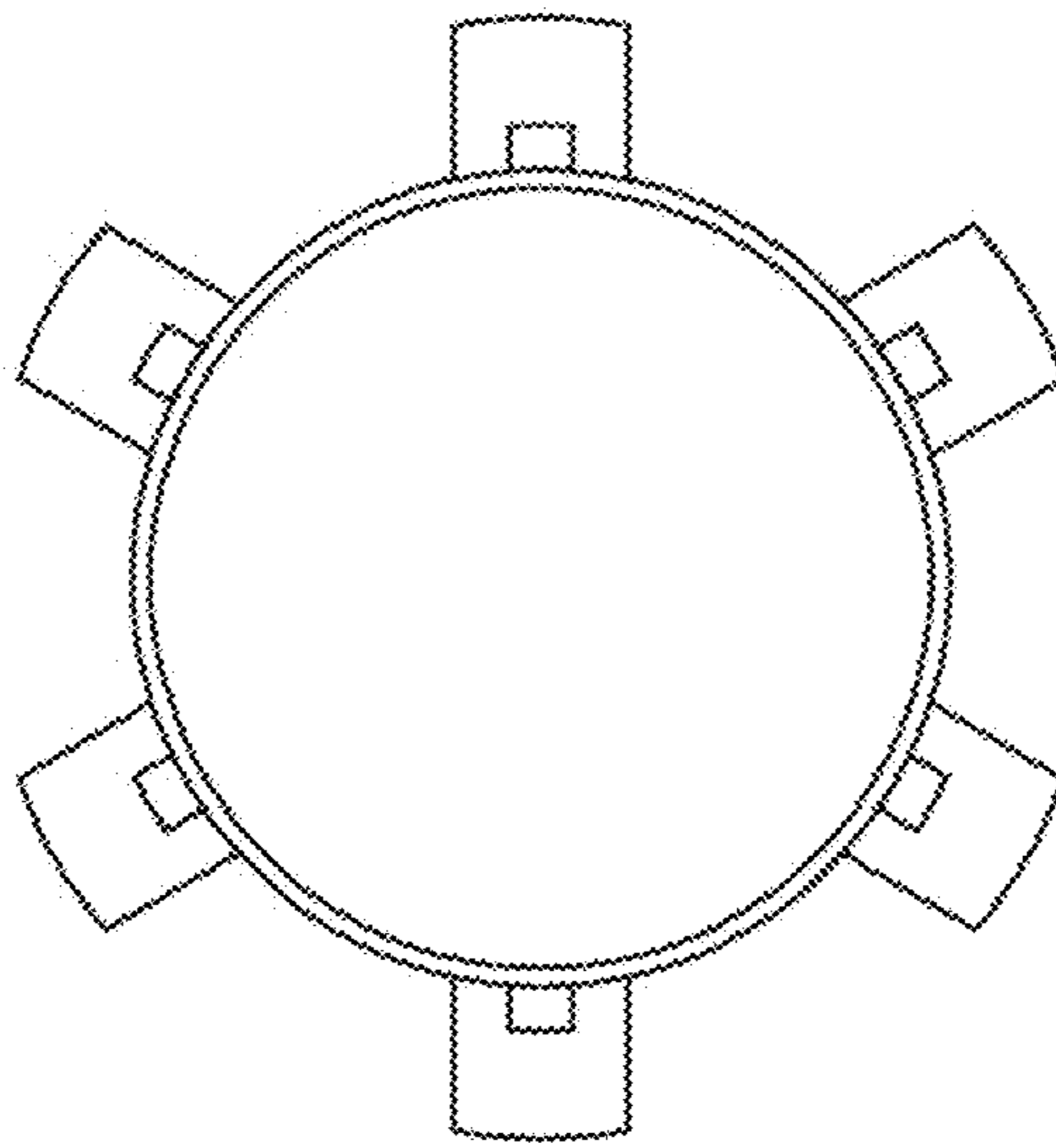


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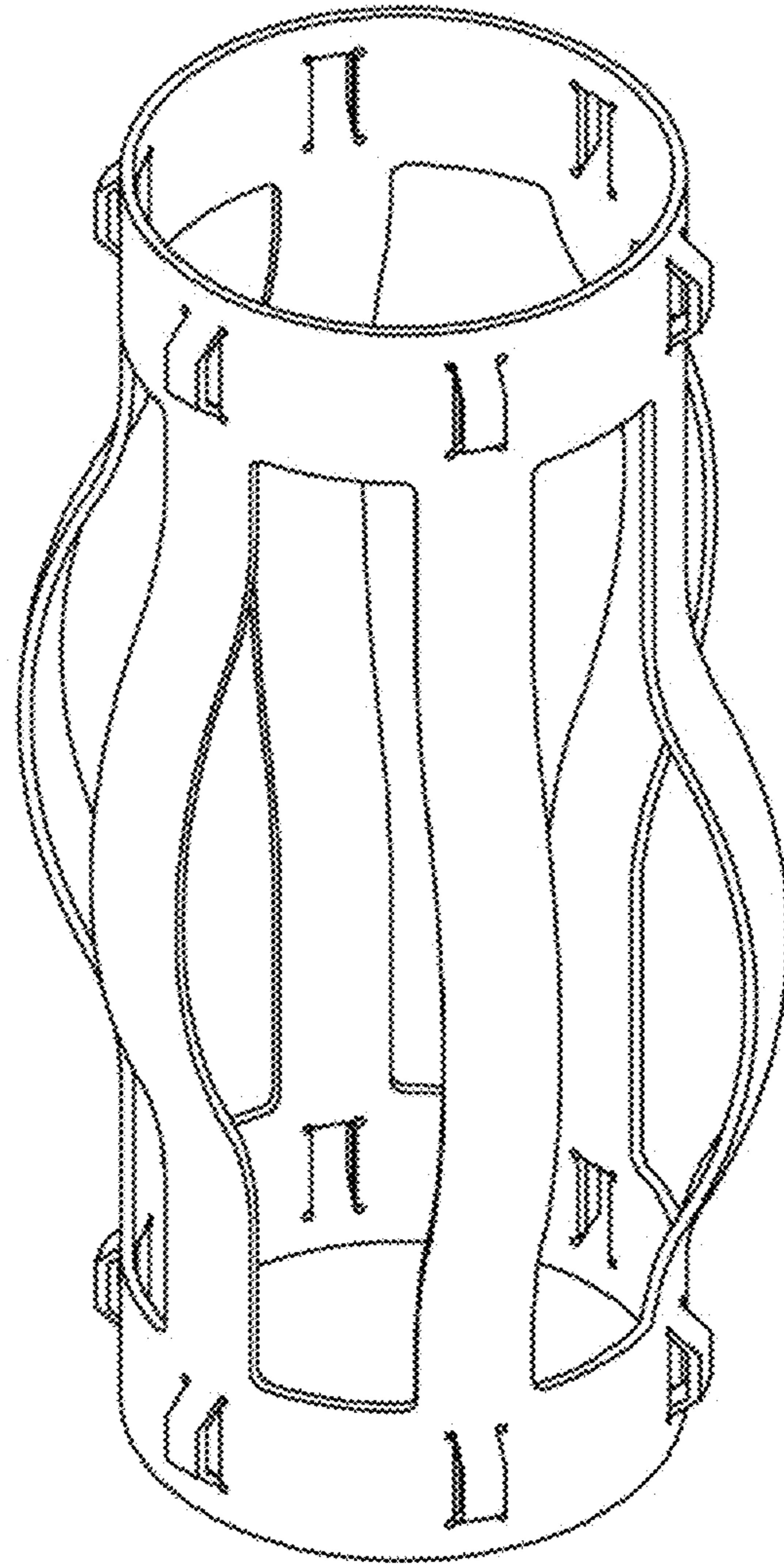


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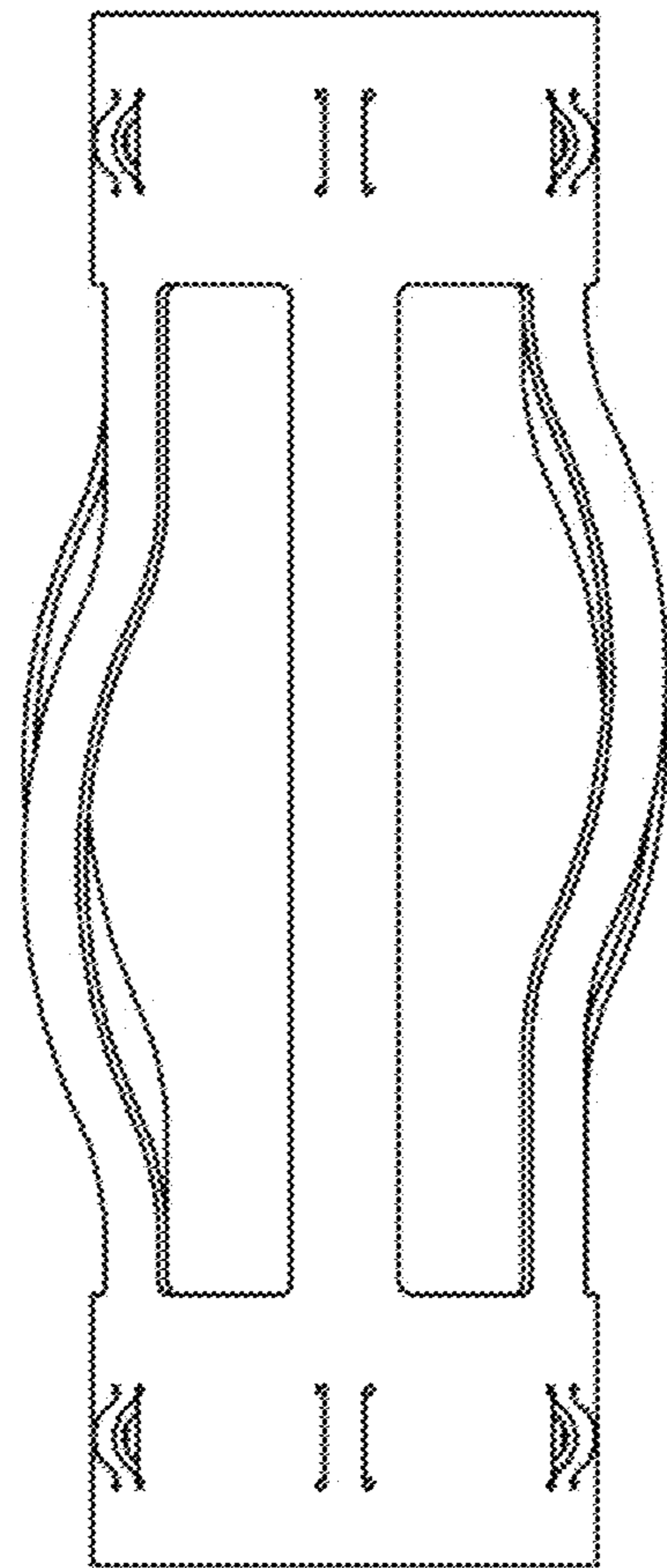


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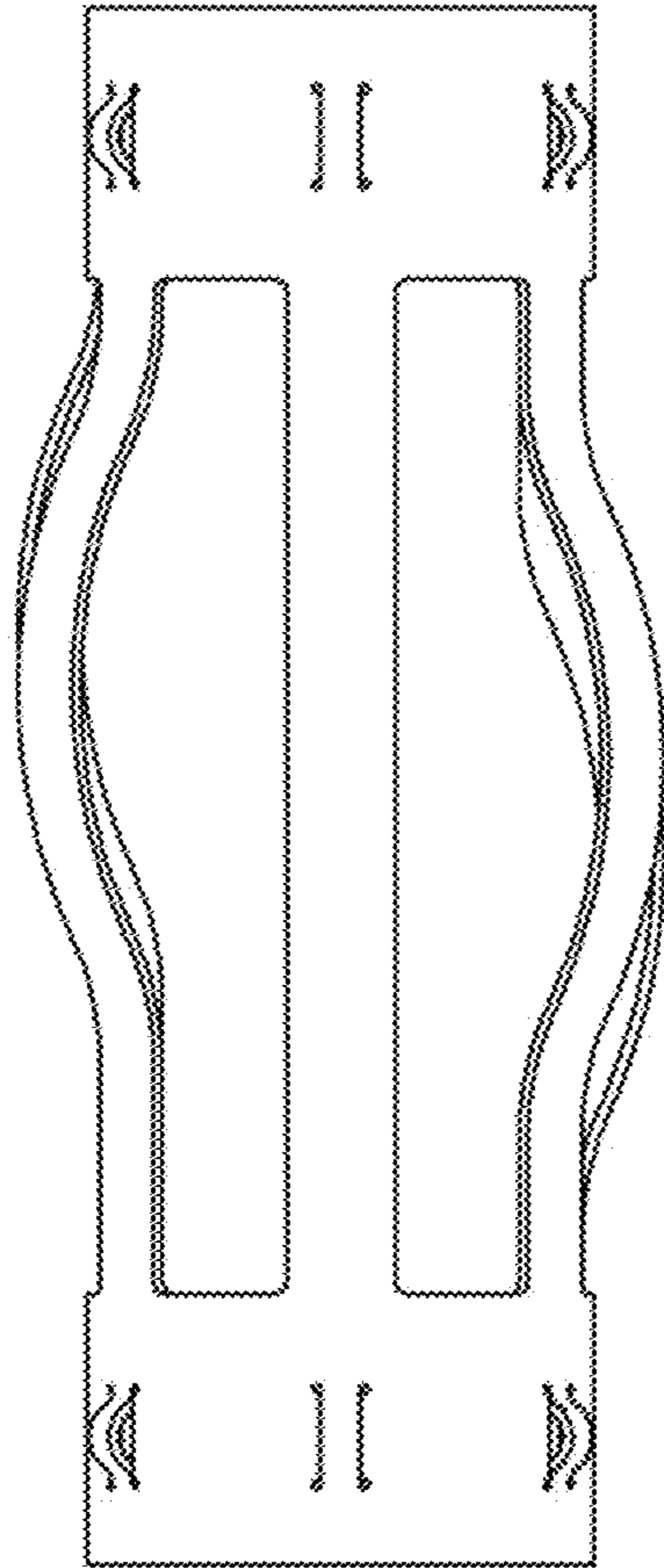


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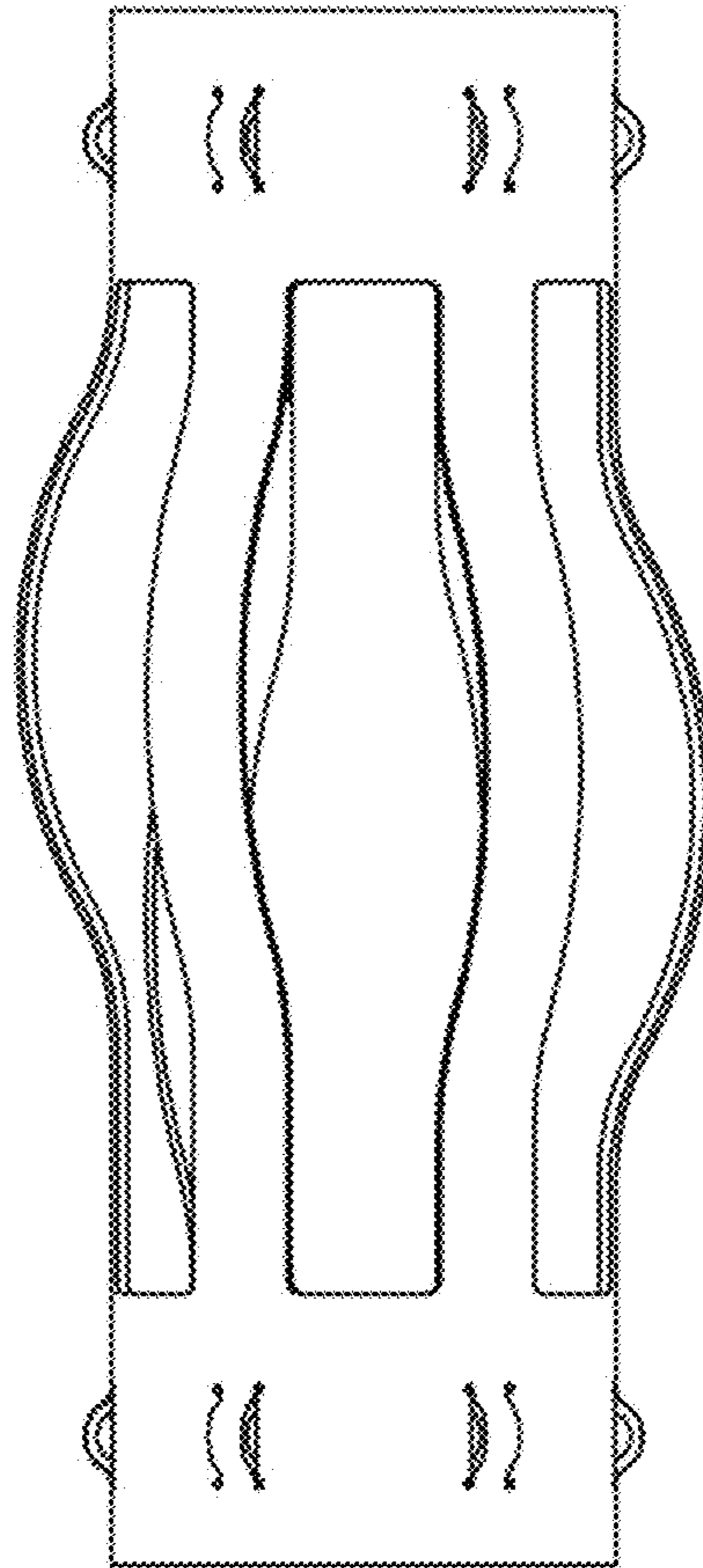


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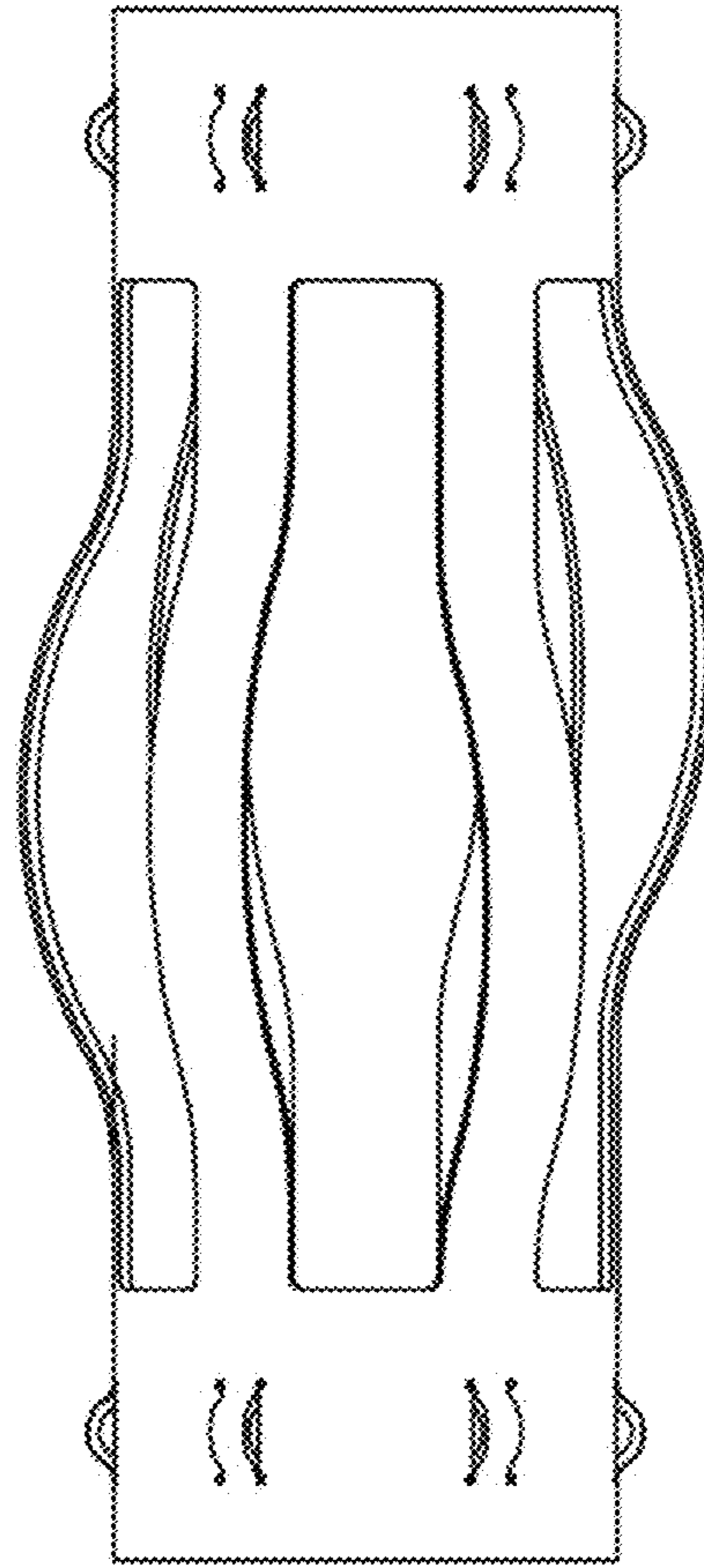


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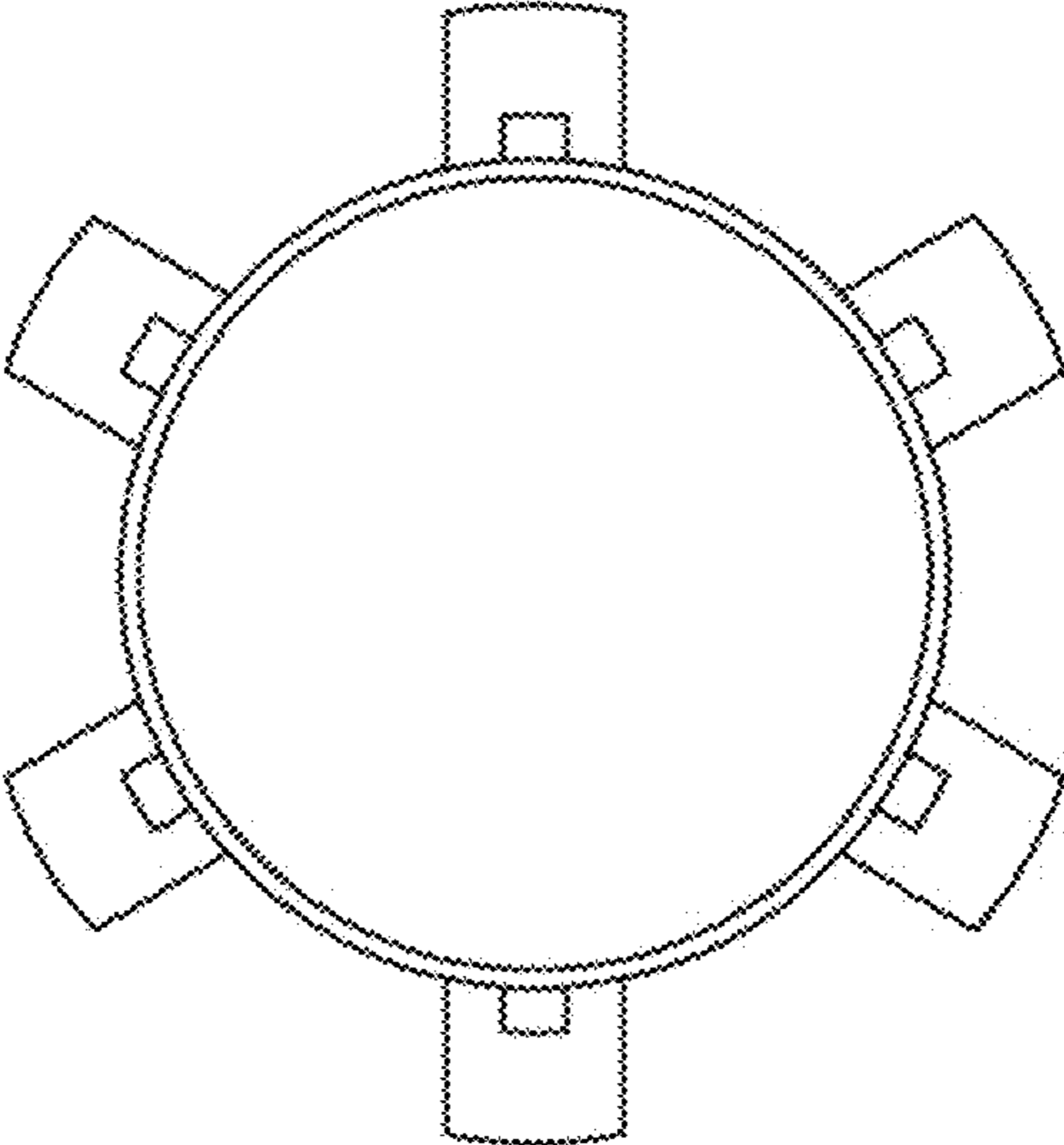


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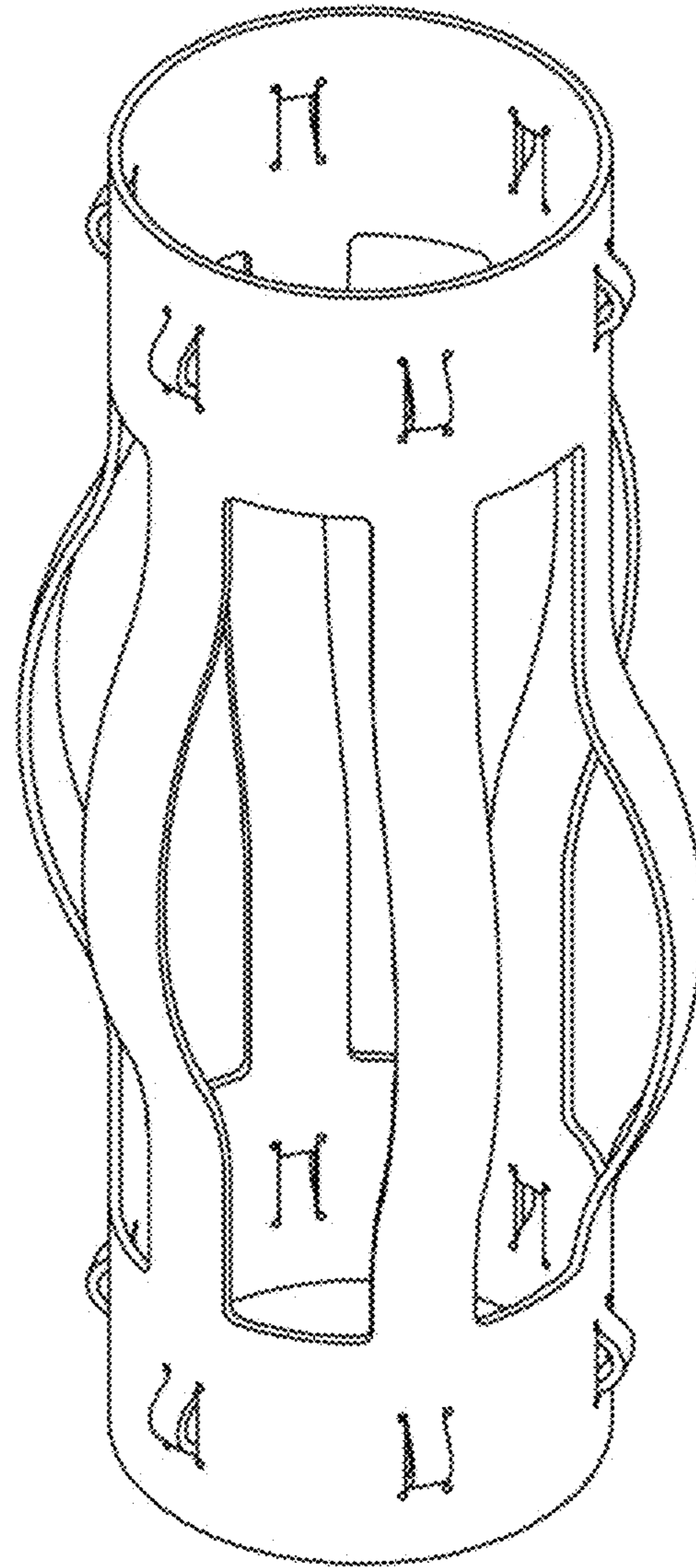


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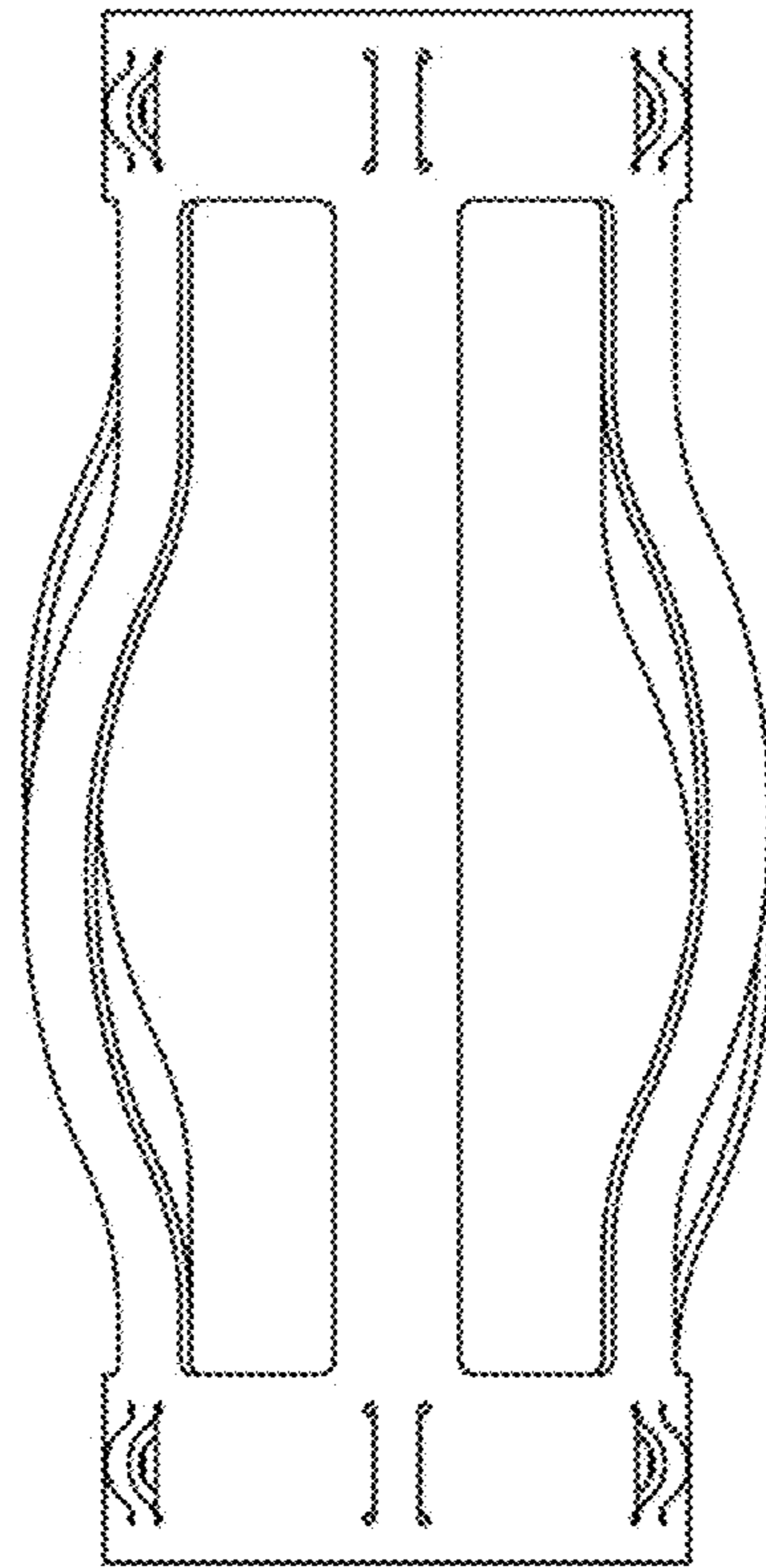


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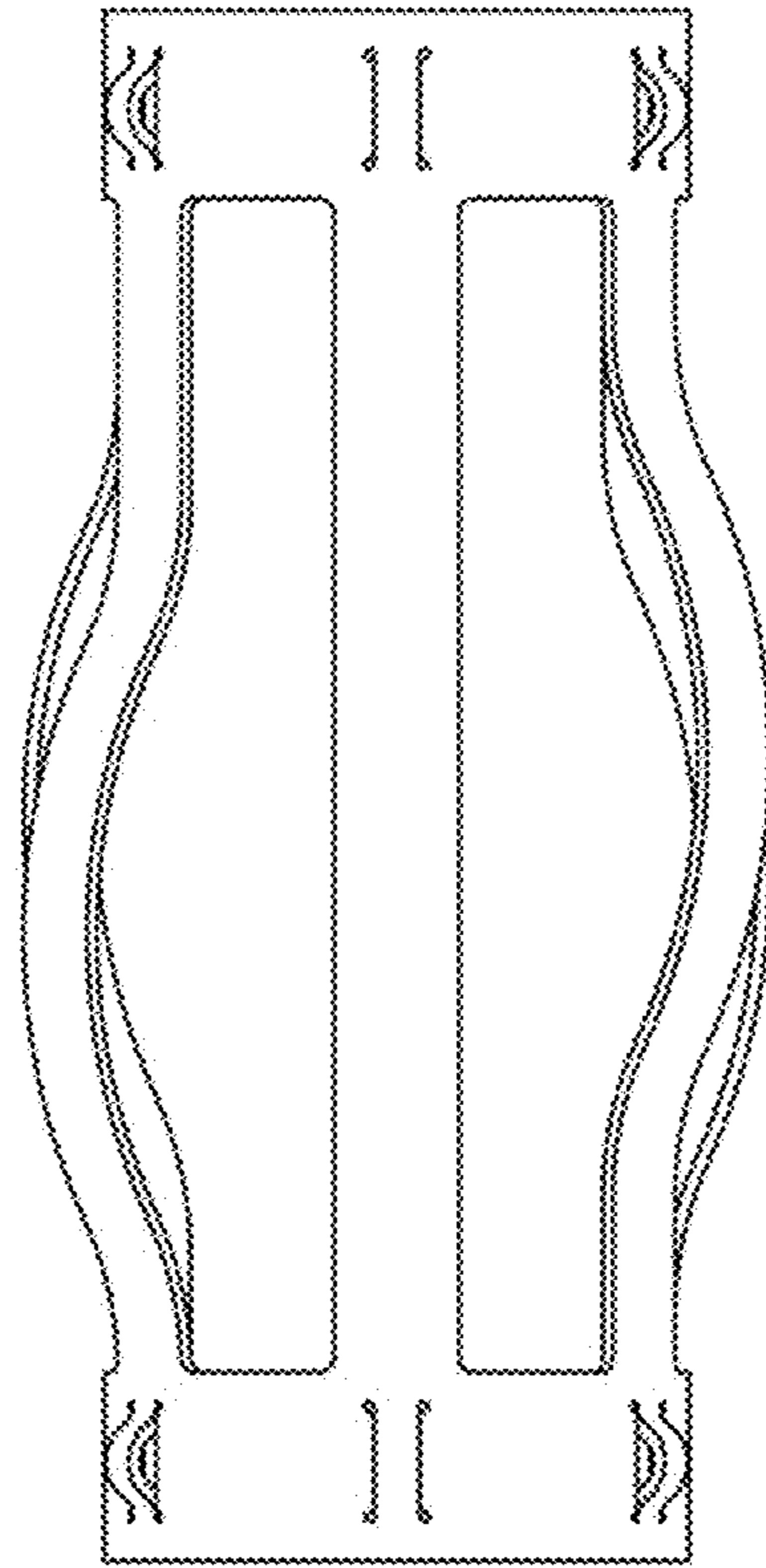


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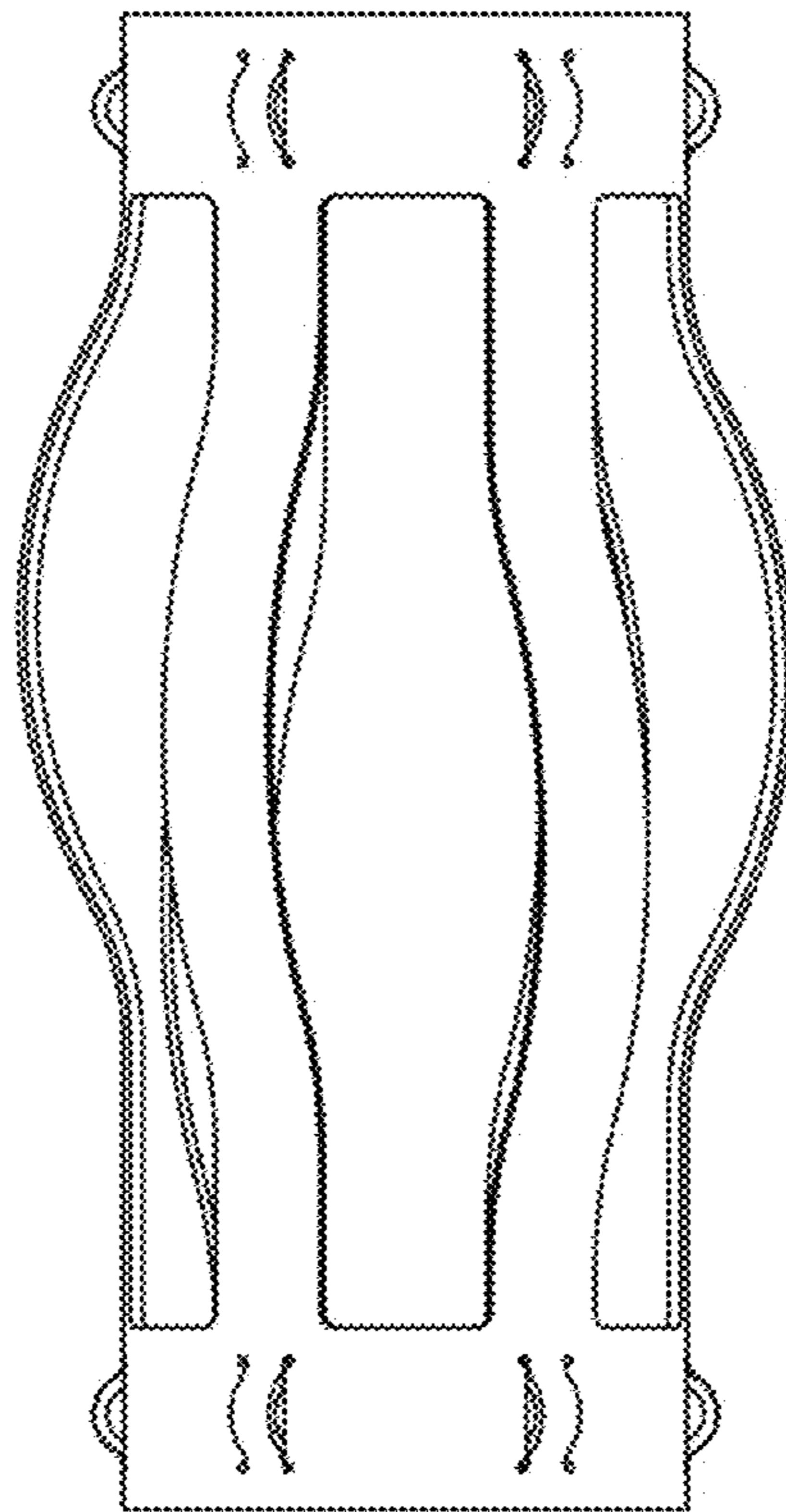


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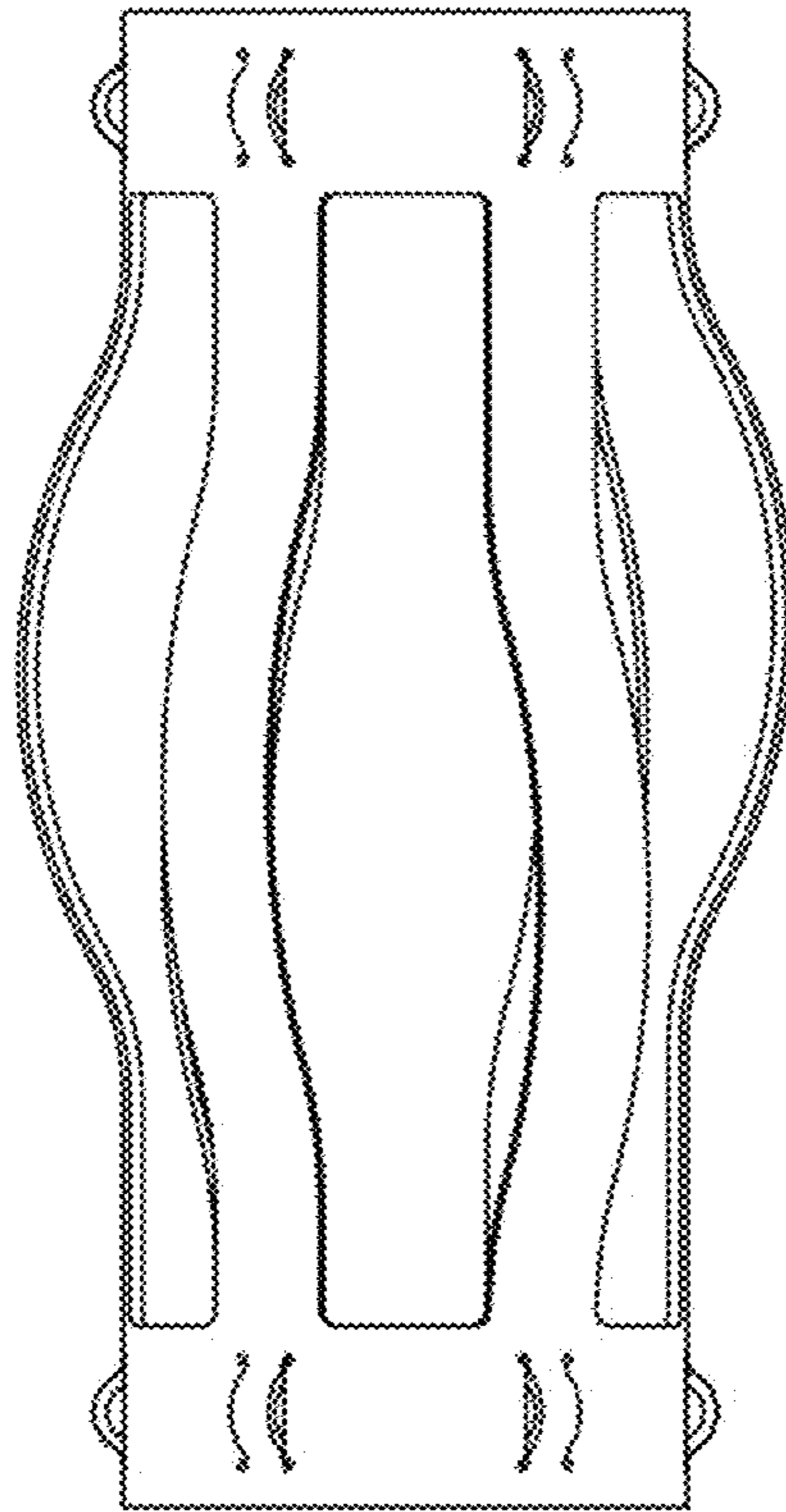


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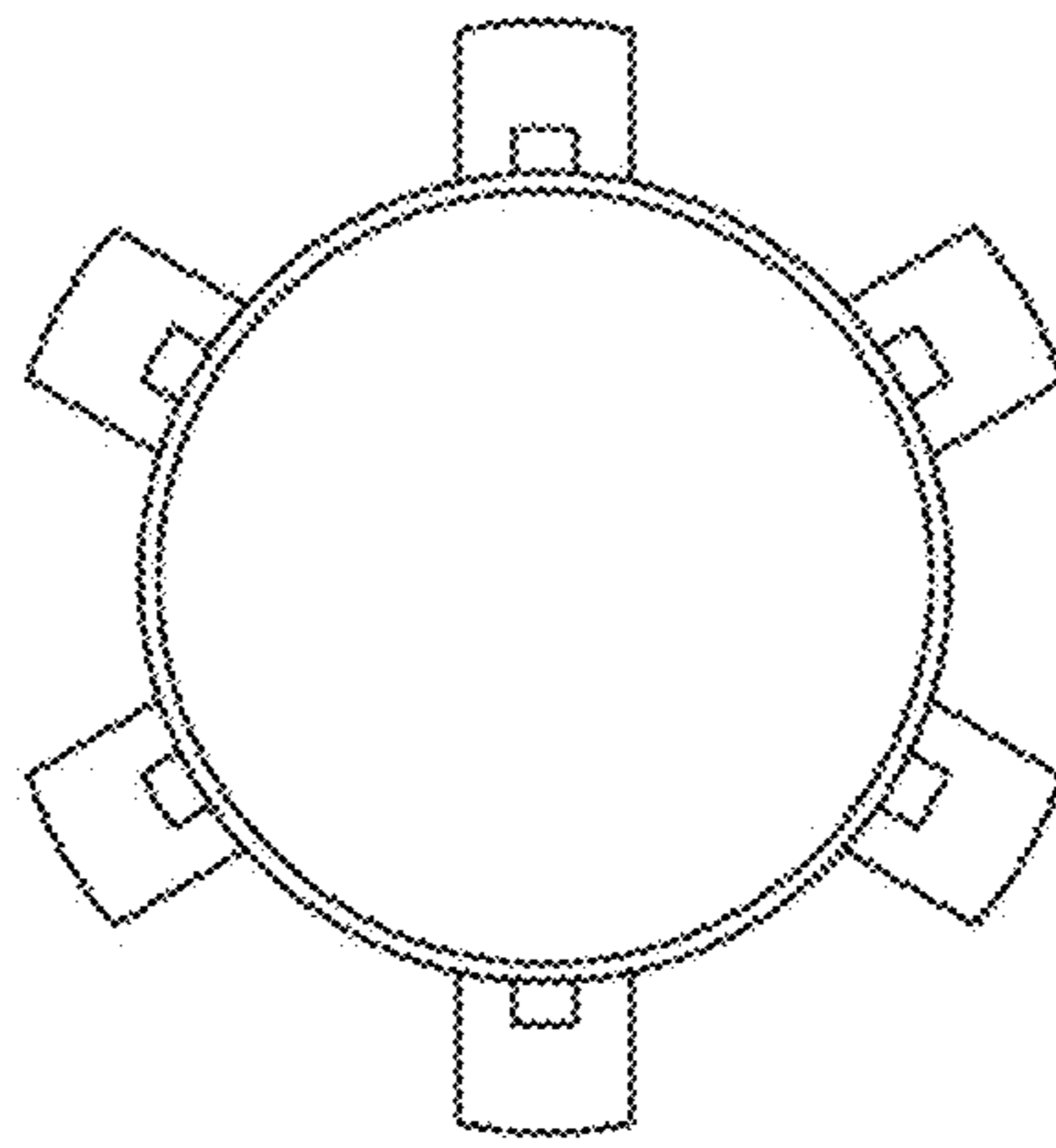


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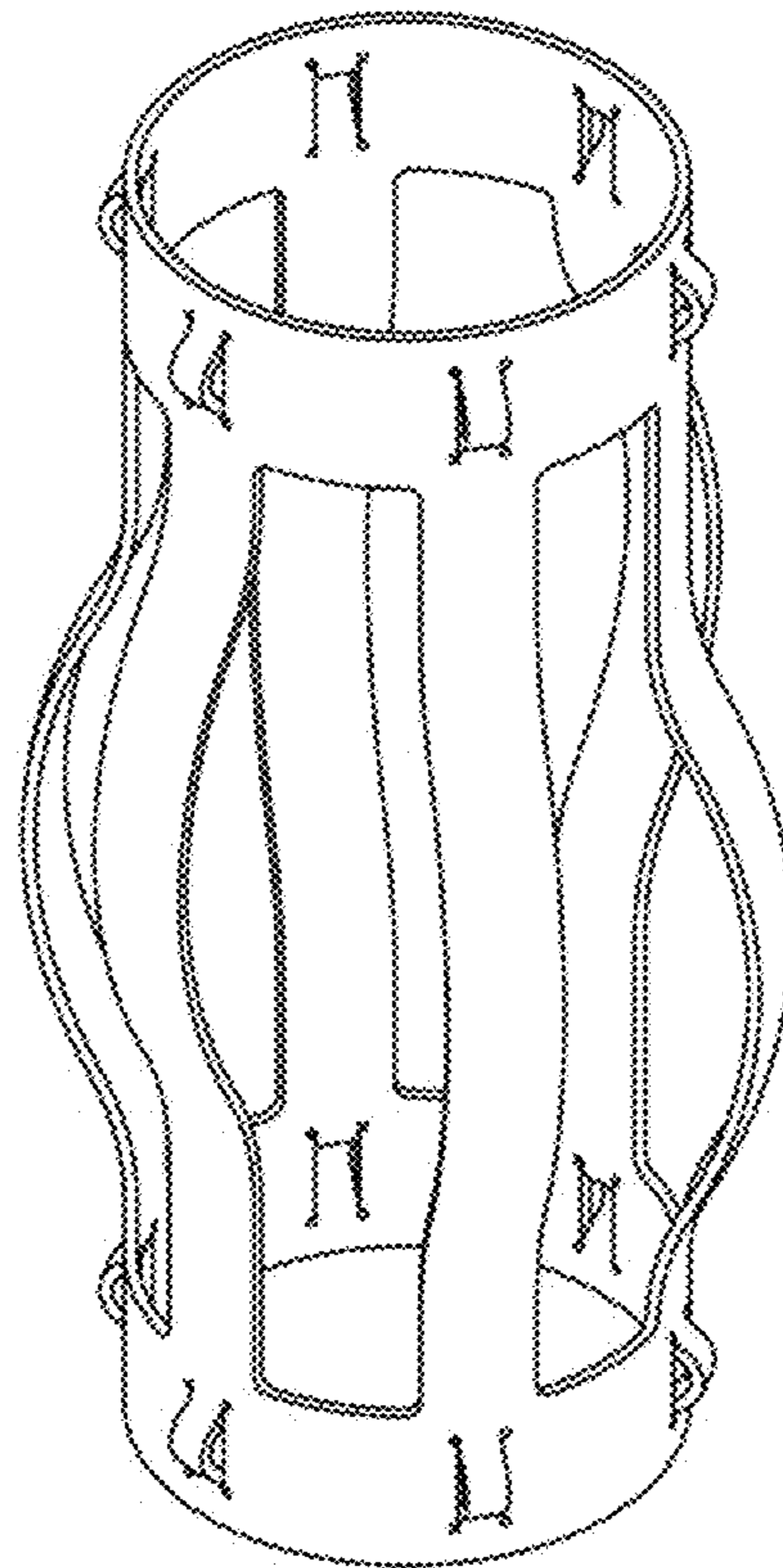


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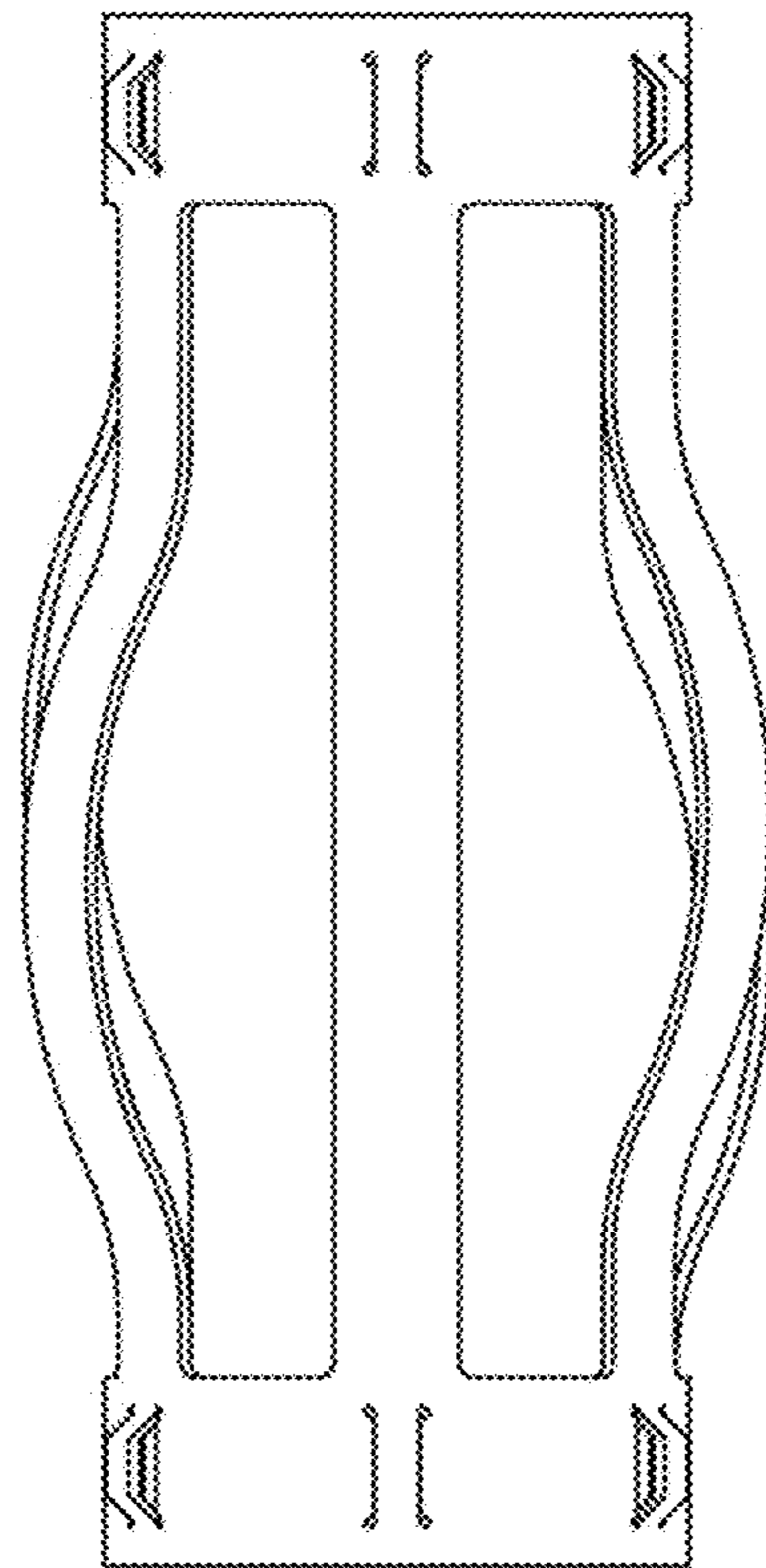


Figure 67

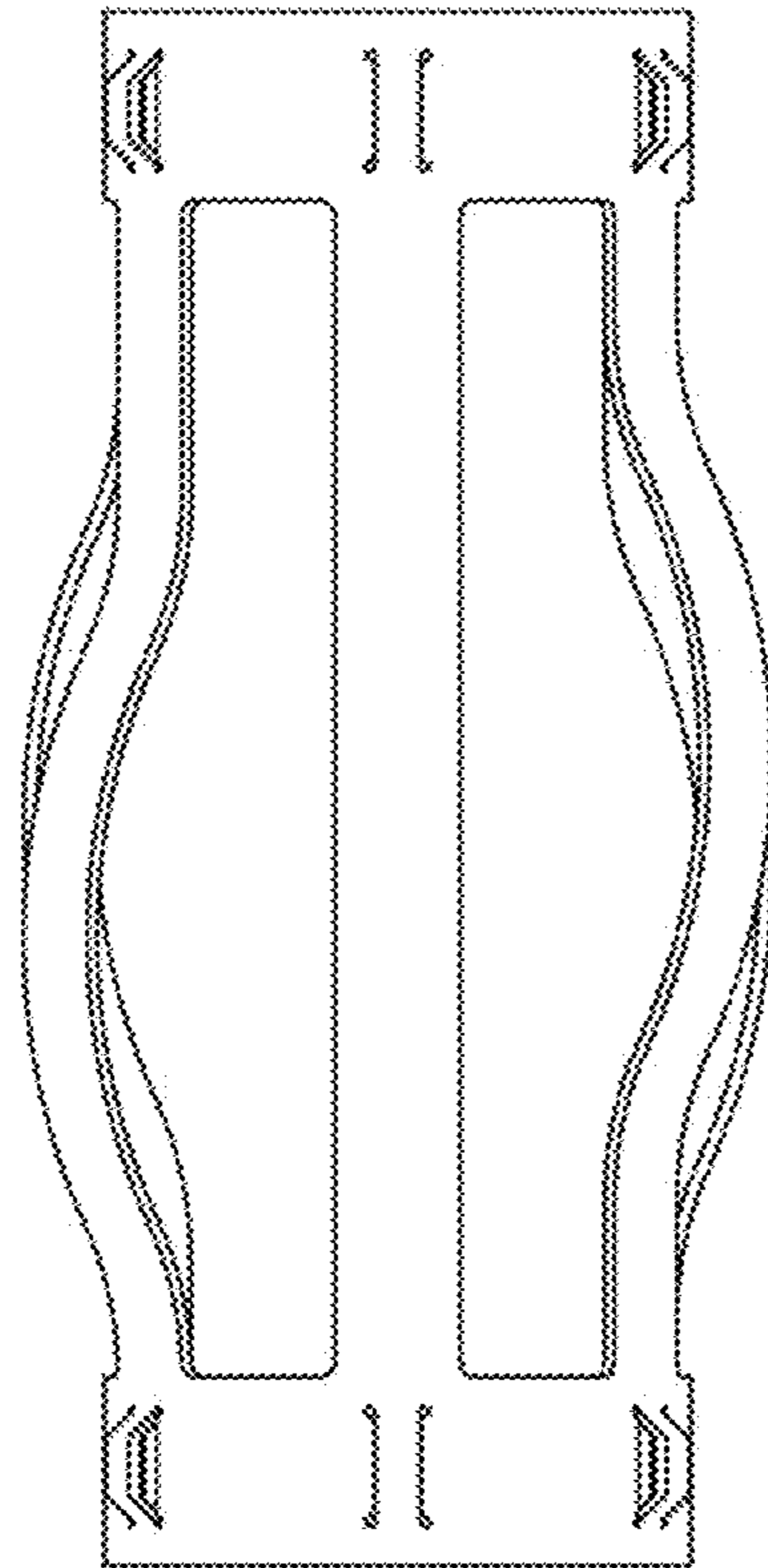


Figure 68

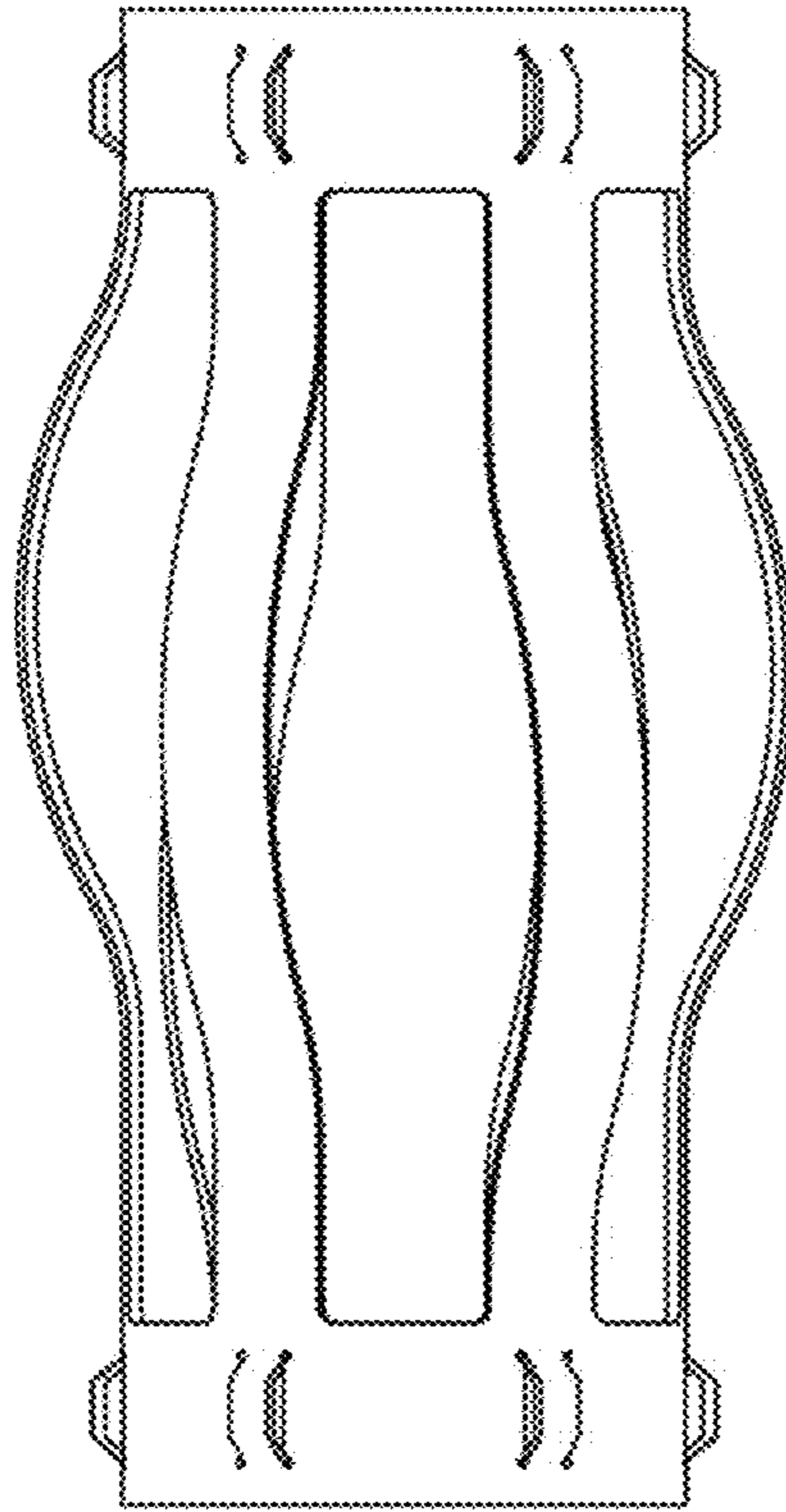


Figure 69

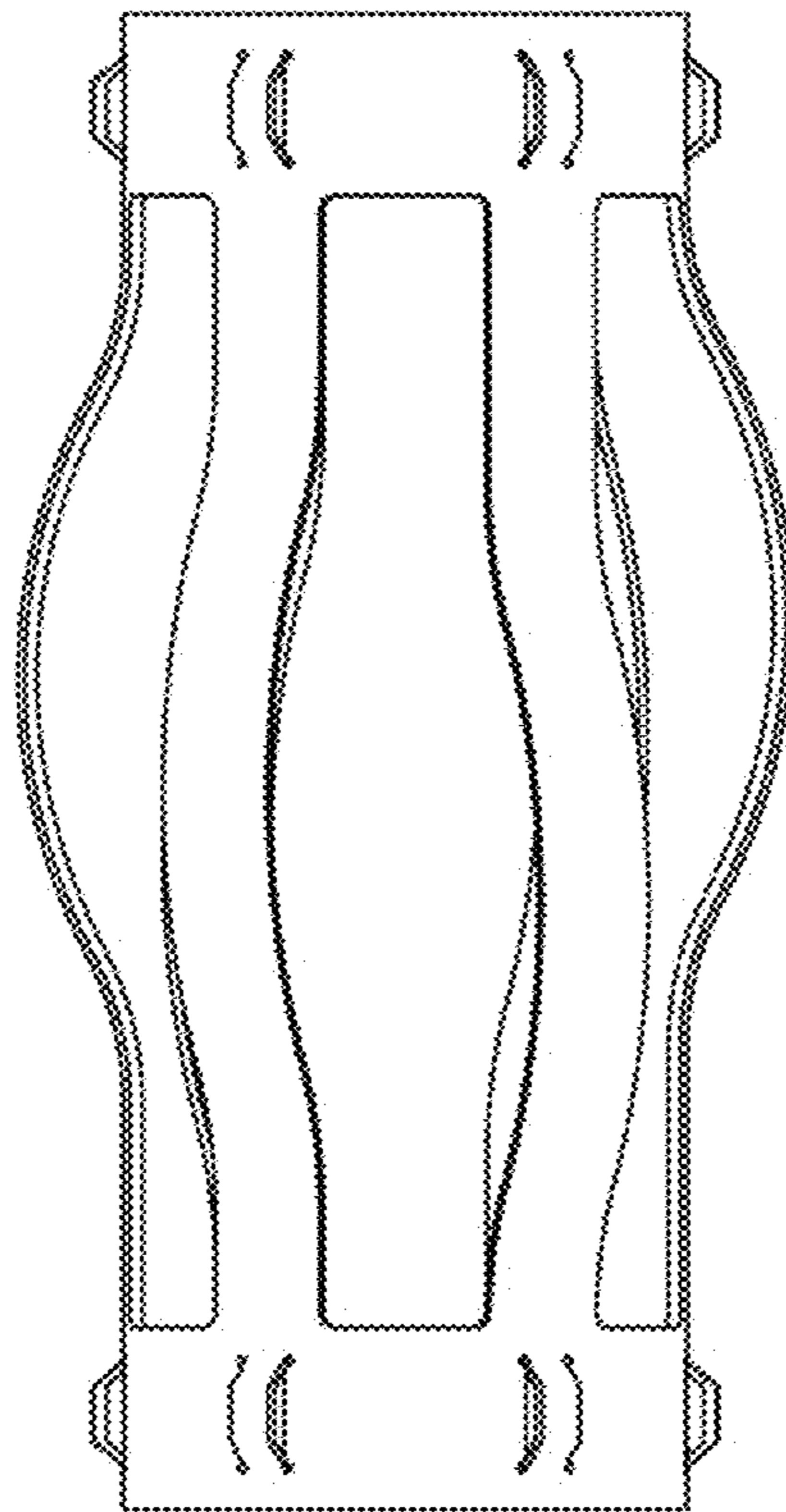


Figure 70

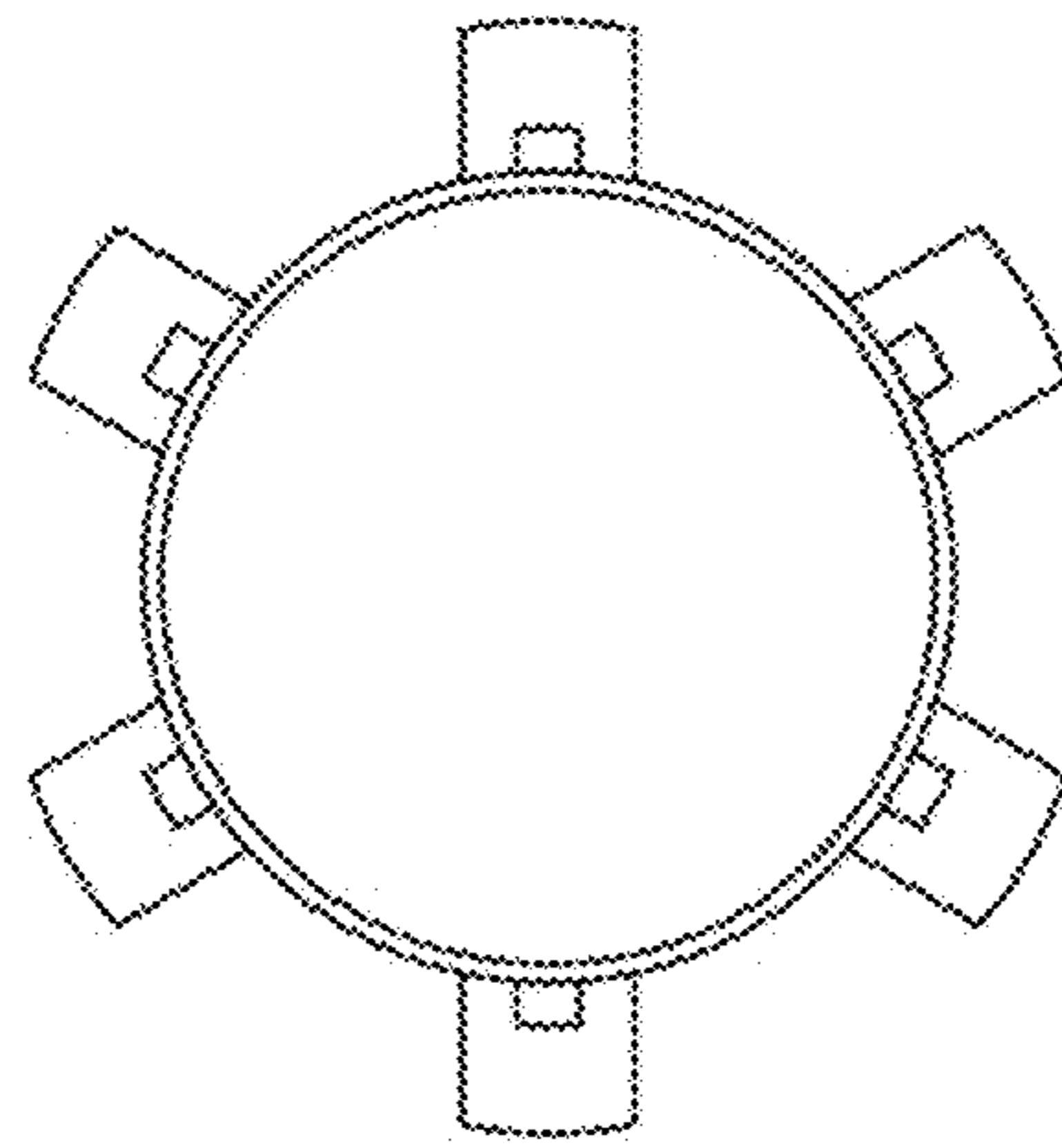


Figure 71

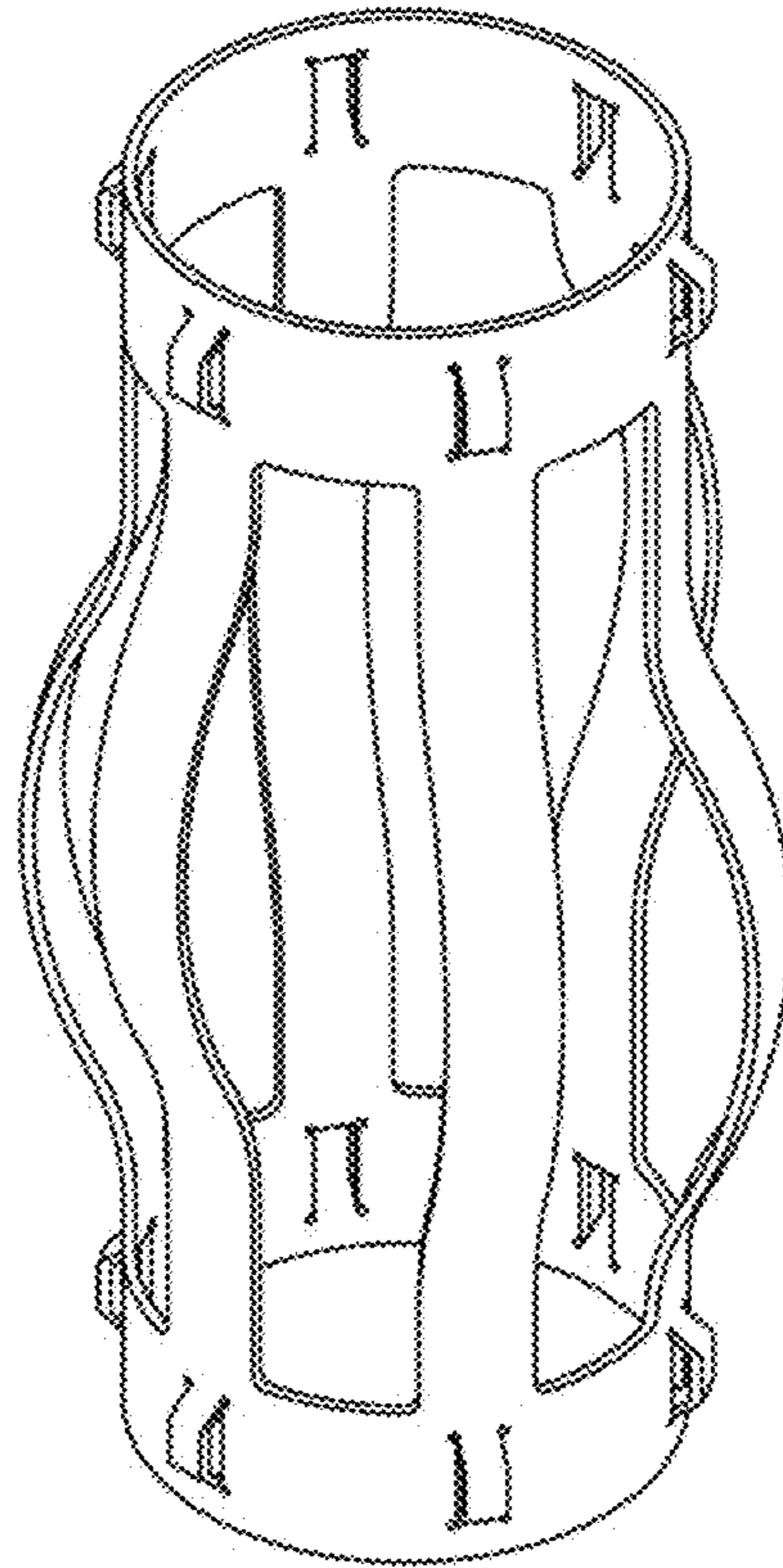


Figure 72

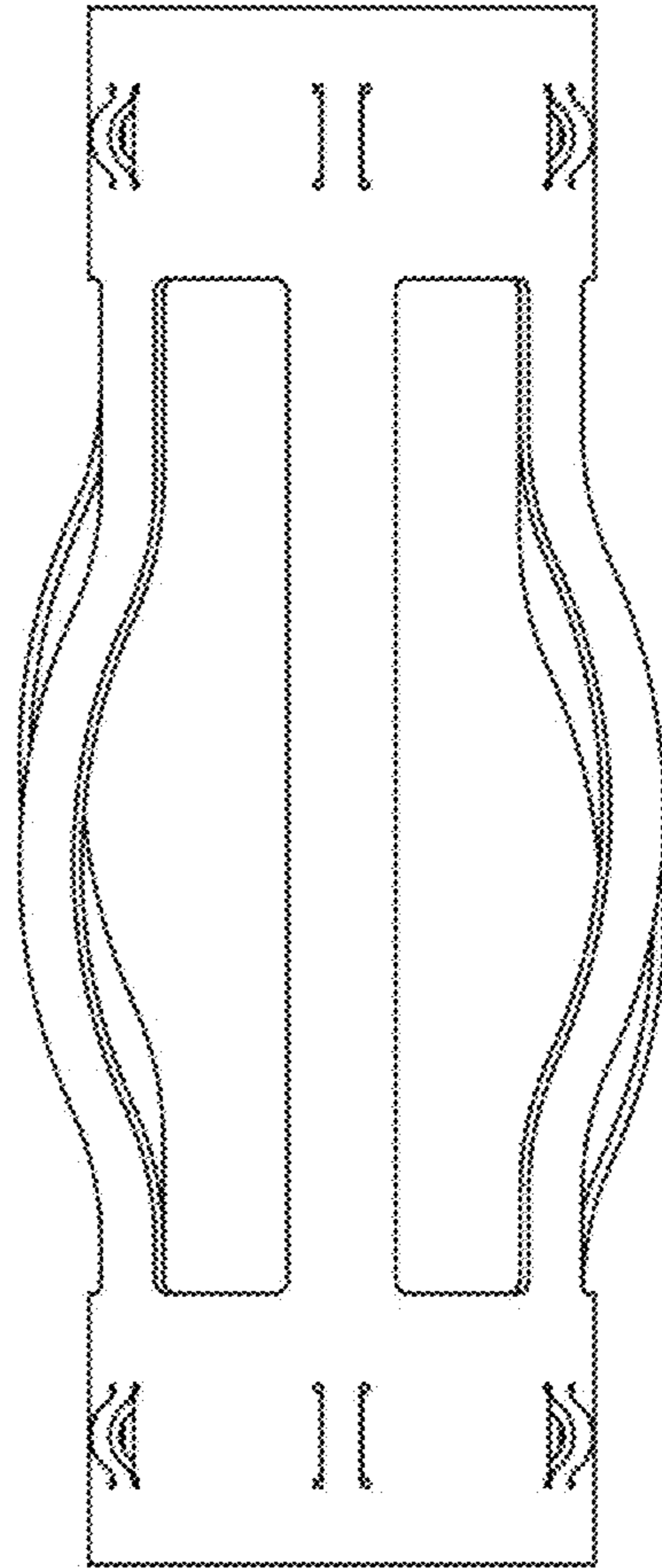


Figure 73

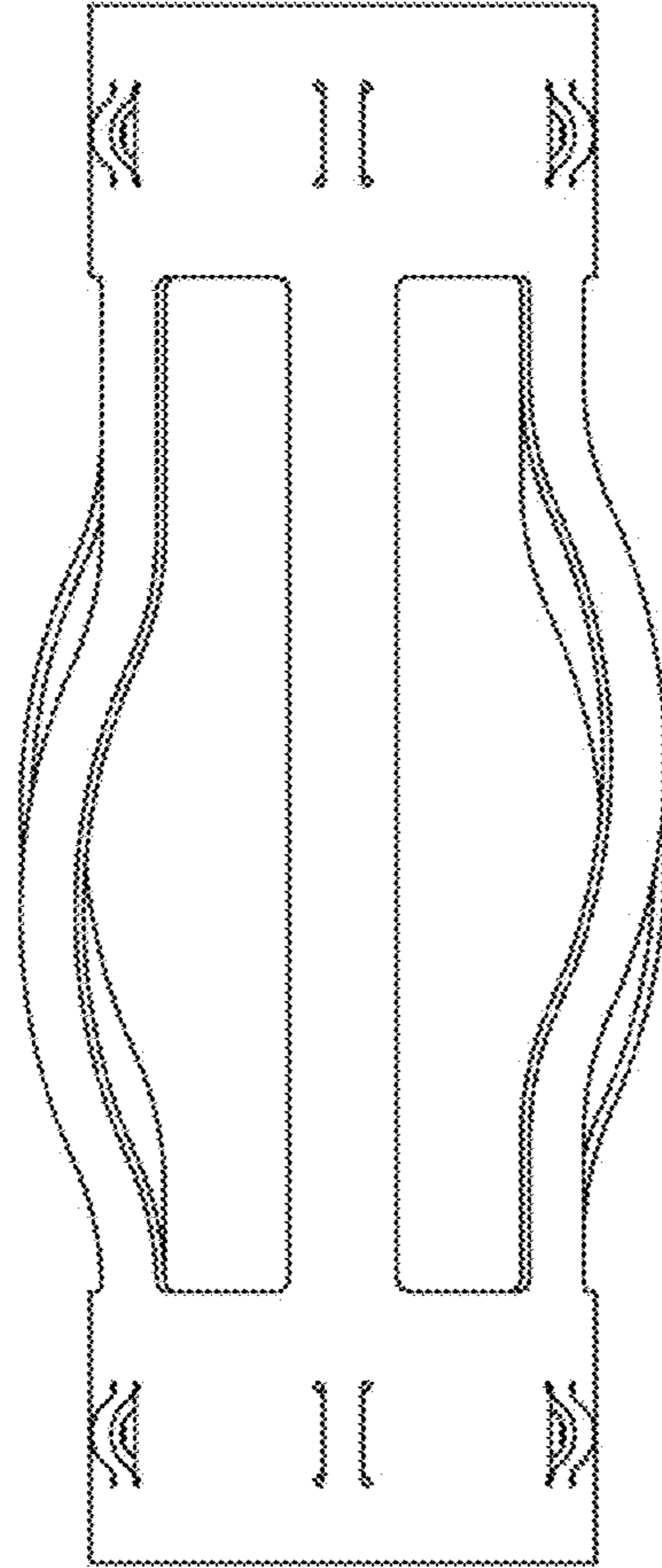


Figure 74

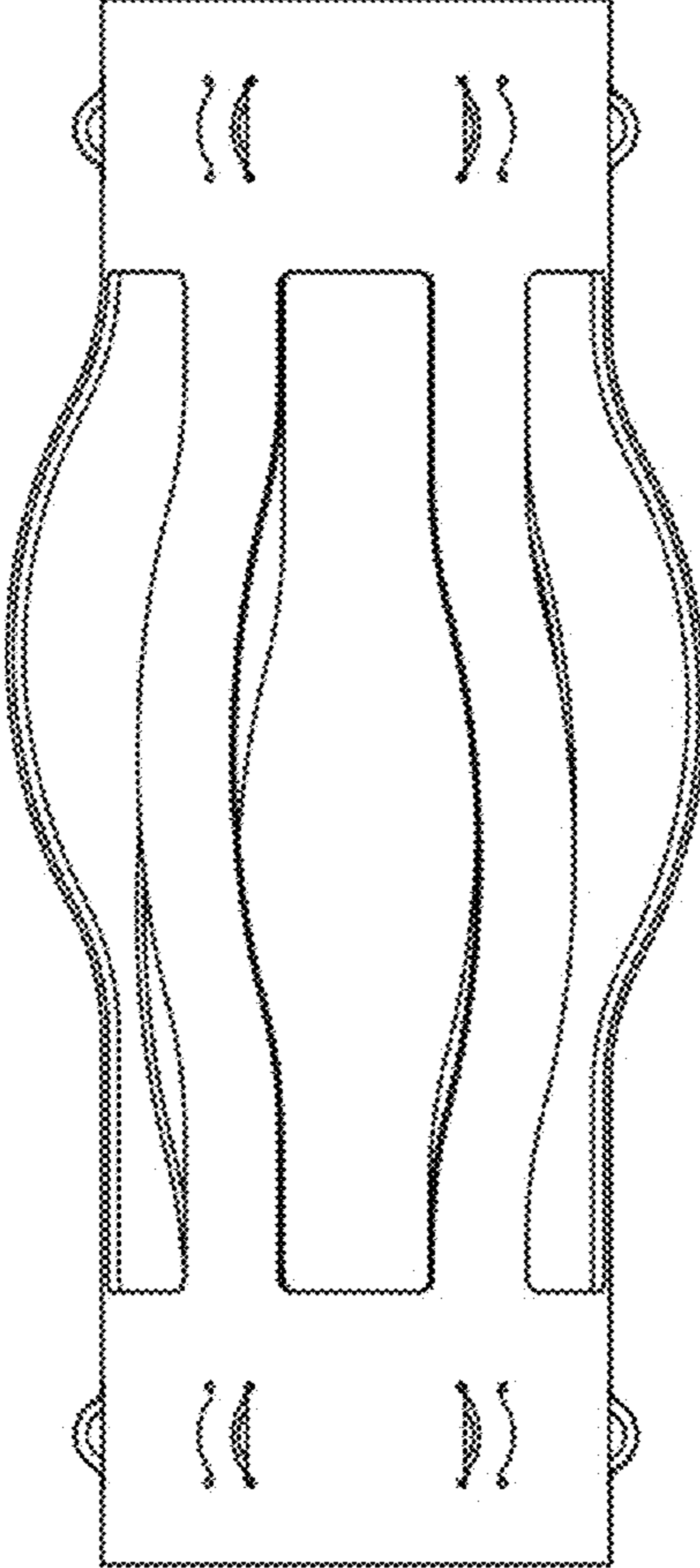


Figure 75

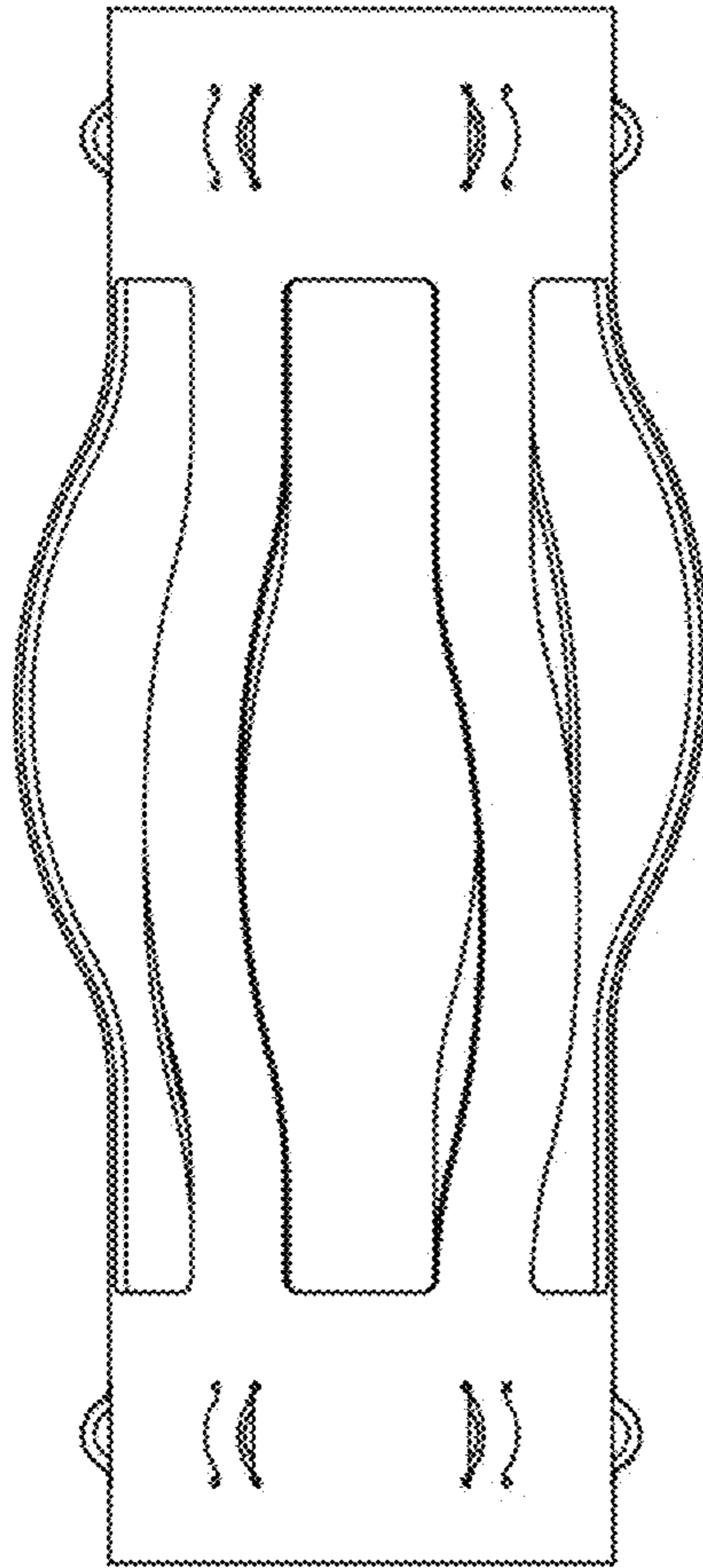


Figure 76

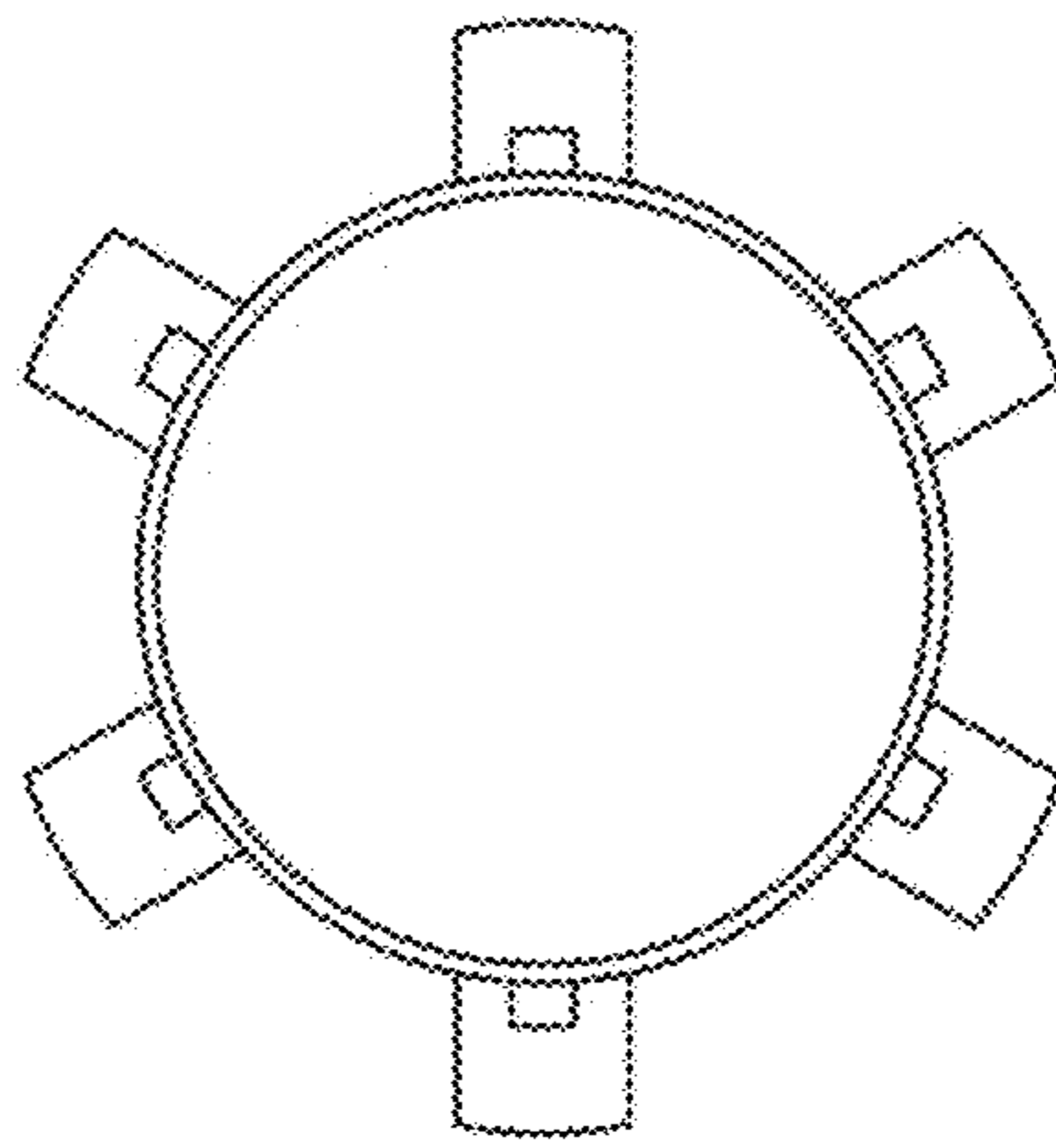


Figure 77

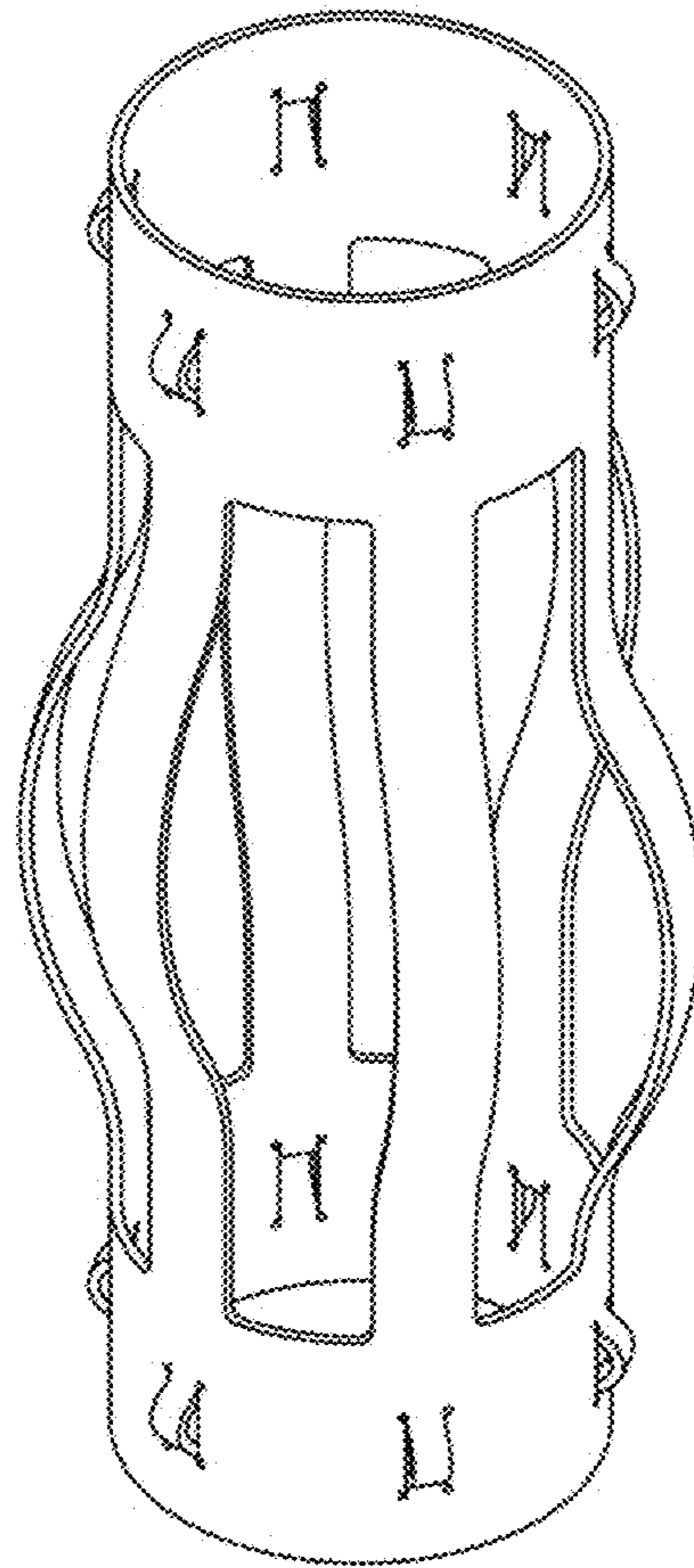


Figure 78