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(12) United States Design Patent

Jenner

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(54) **CENTRALIZER**

(71) Applicant: **CENTEK LIMITED**, Newton Abbot (GB)

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

(73) Assignee: **CENTEK 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)

(56) **References Cited**

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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;
(Continued)

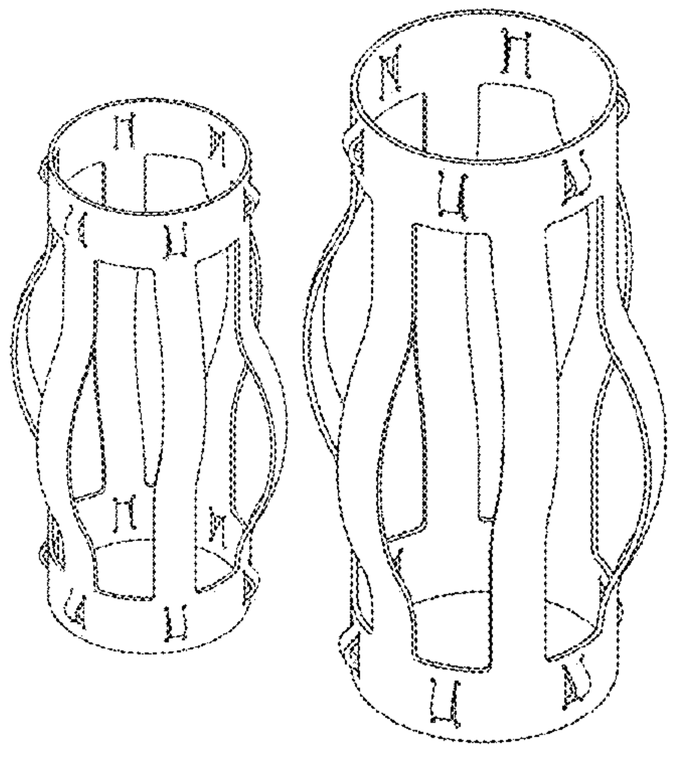

FIG. **26** is a back elevation view thereof;
FIG. **27** is a right elevation view thereof;
FIG. **28** is a left elevation view thereof,
FIG. **29** is a top elevation view thereof, the bottom elevation view being identical thereto;
FIG. **30** is a perspective view thereof;
FIG. **31** is a front 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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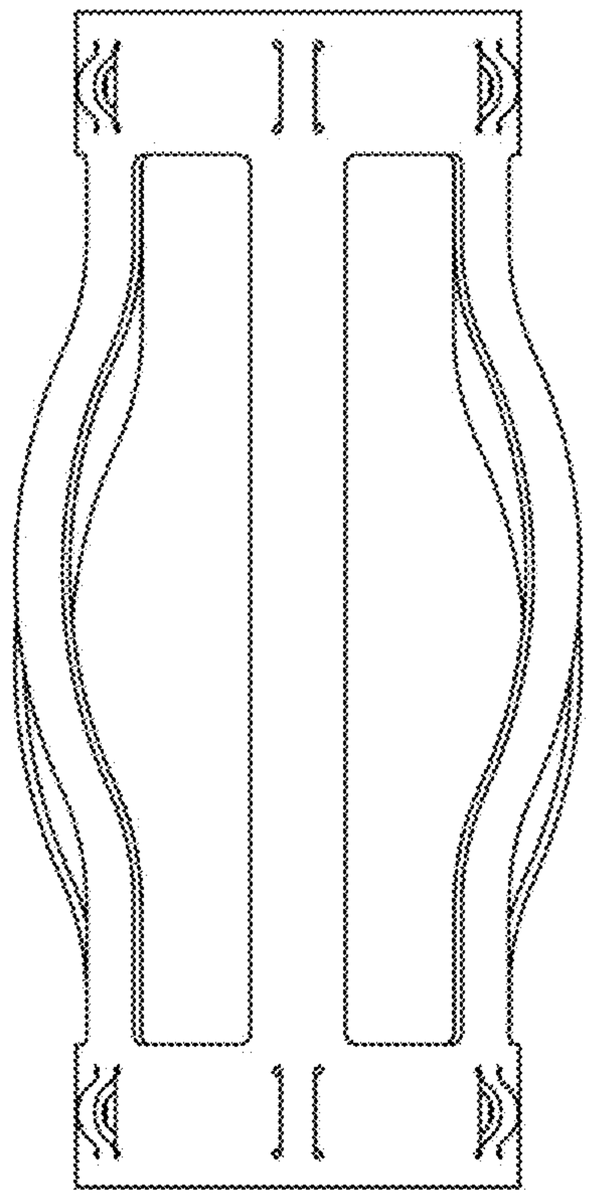
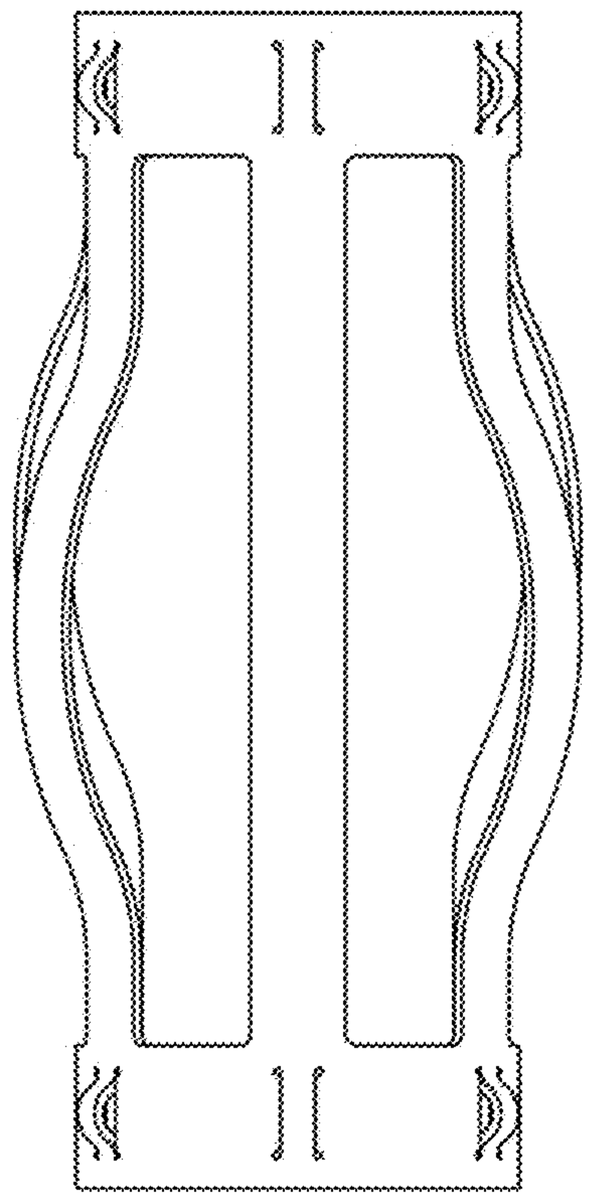


Figure 1



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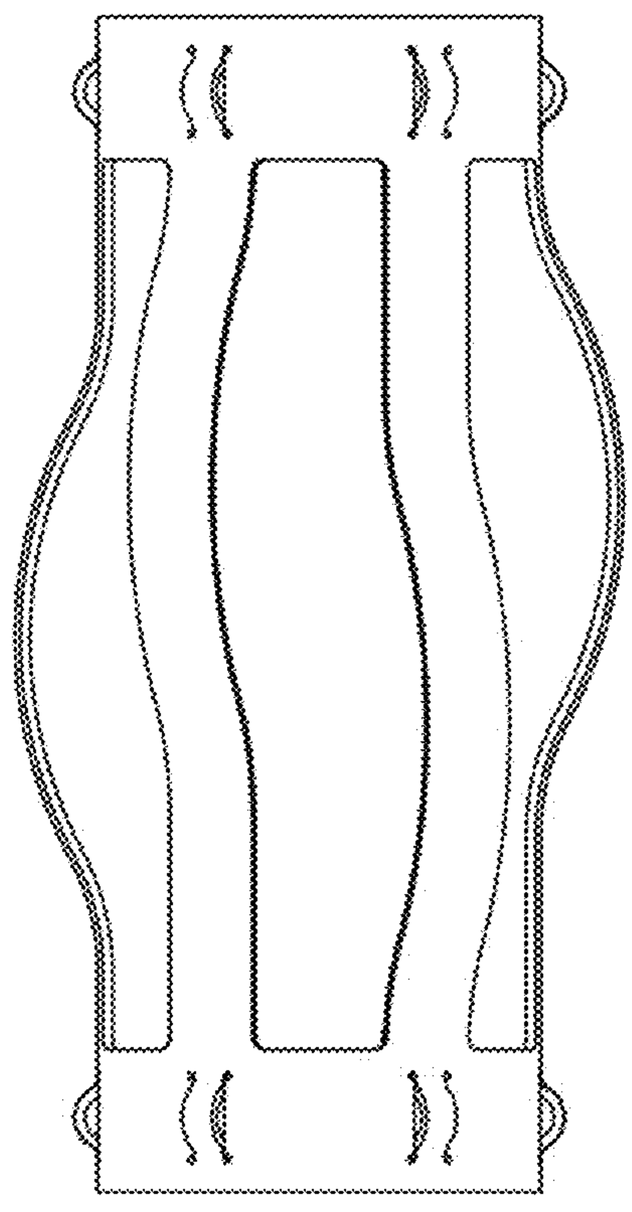

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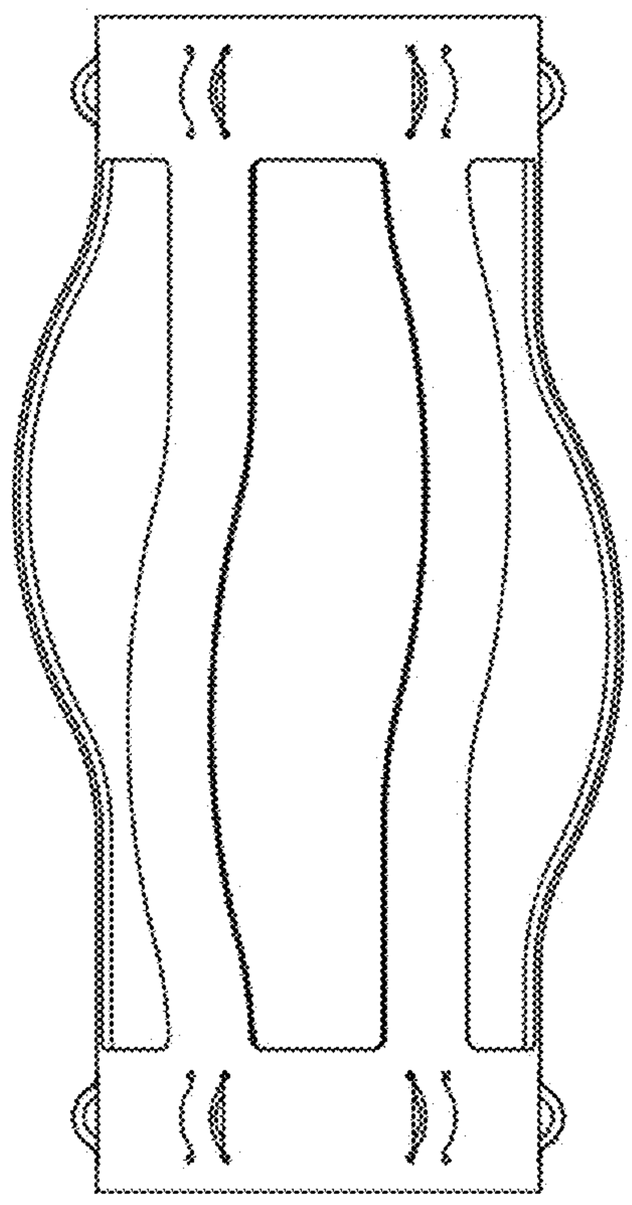

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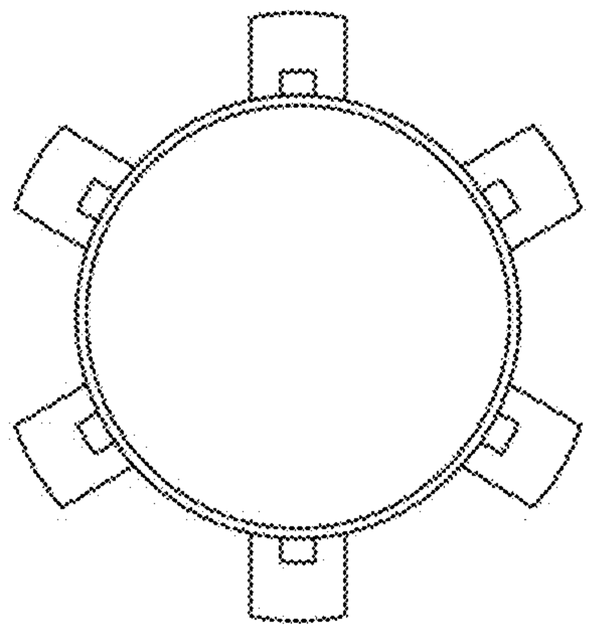

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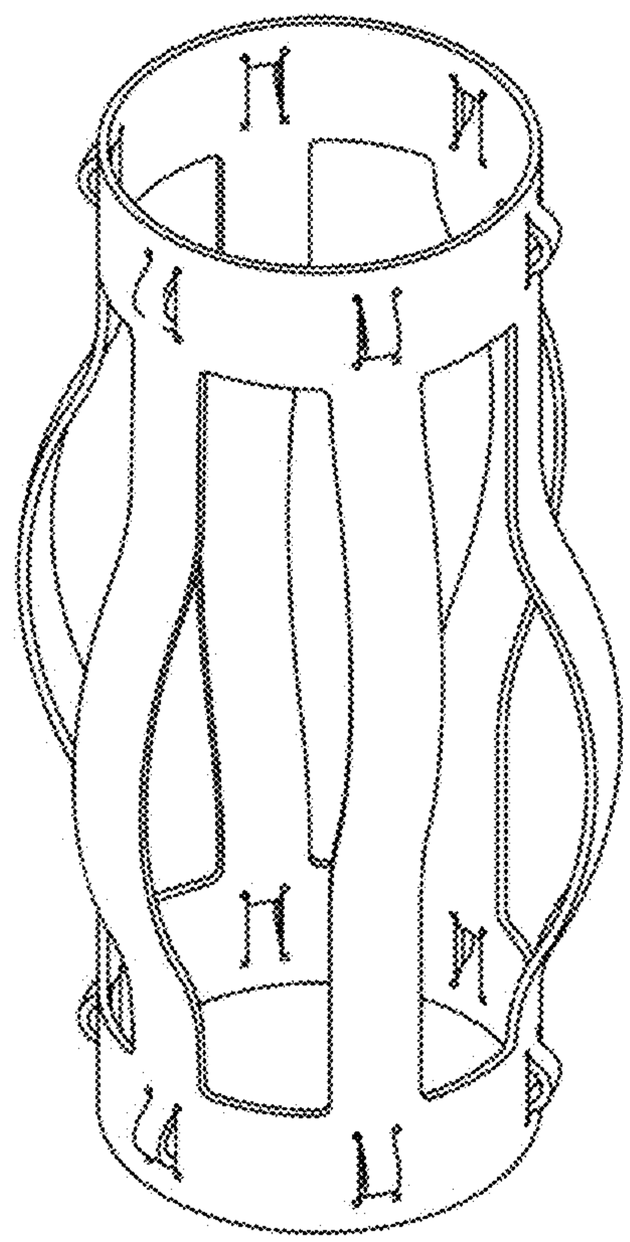

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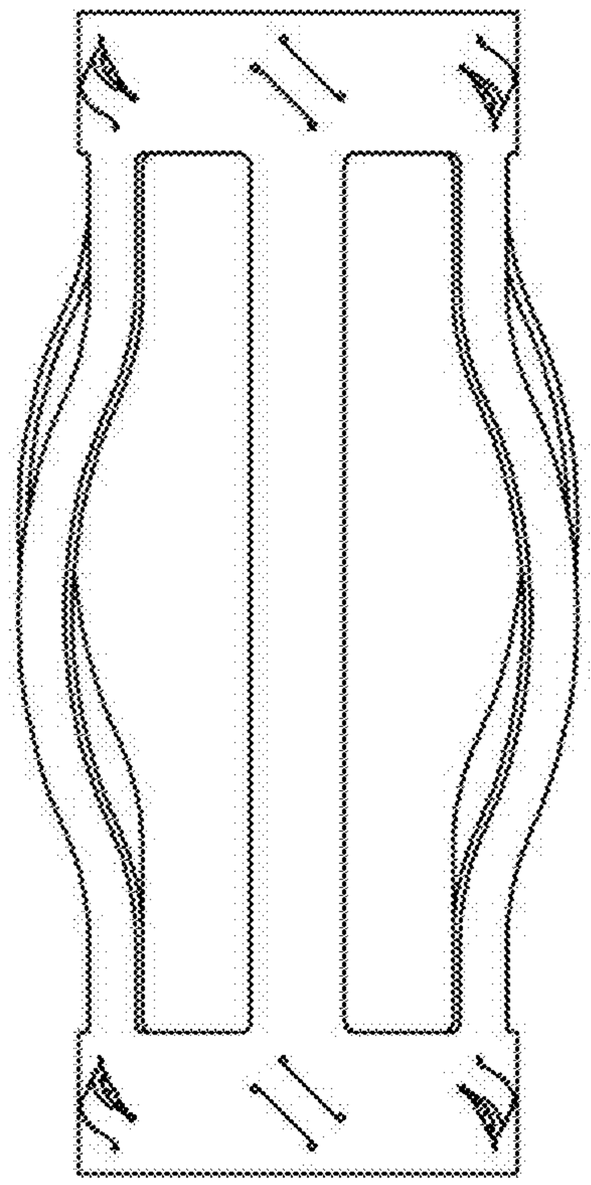

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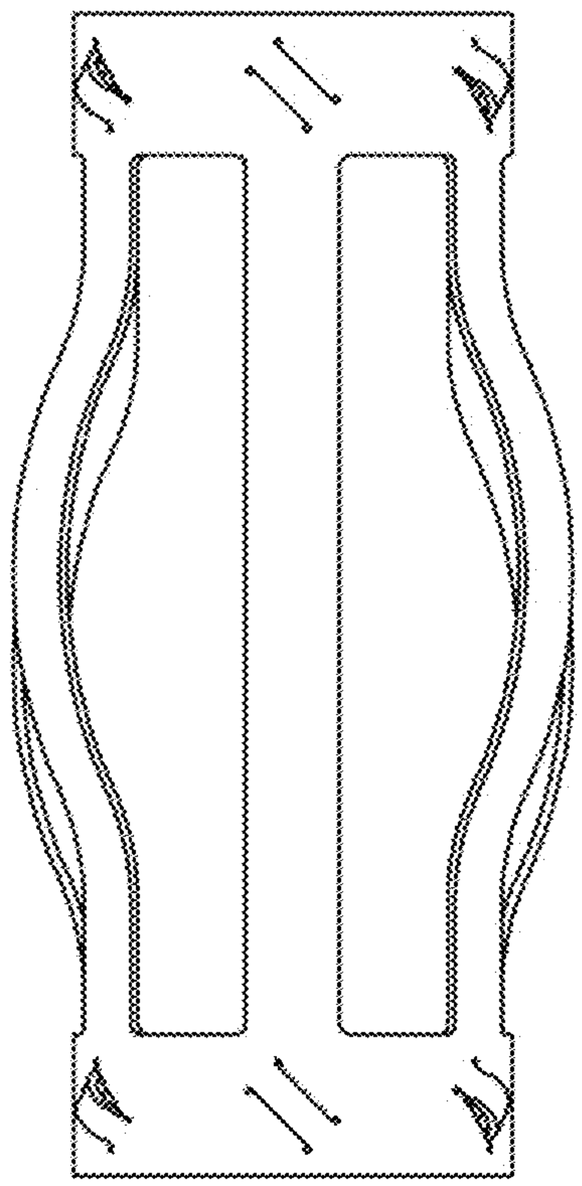

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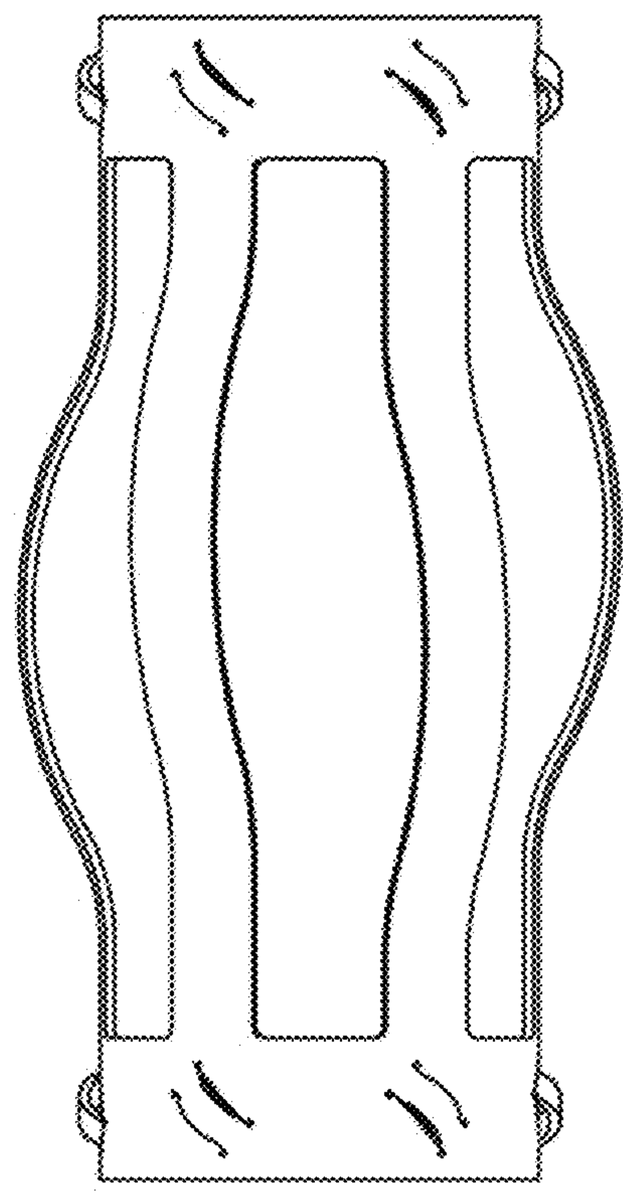

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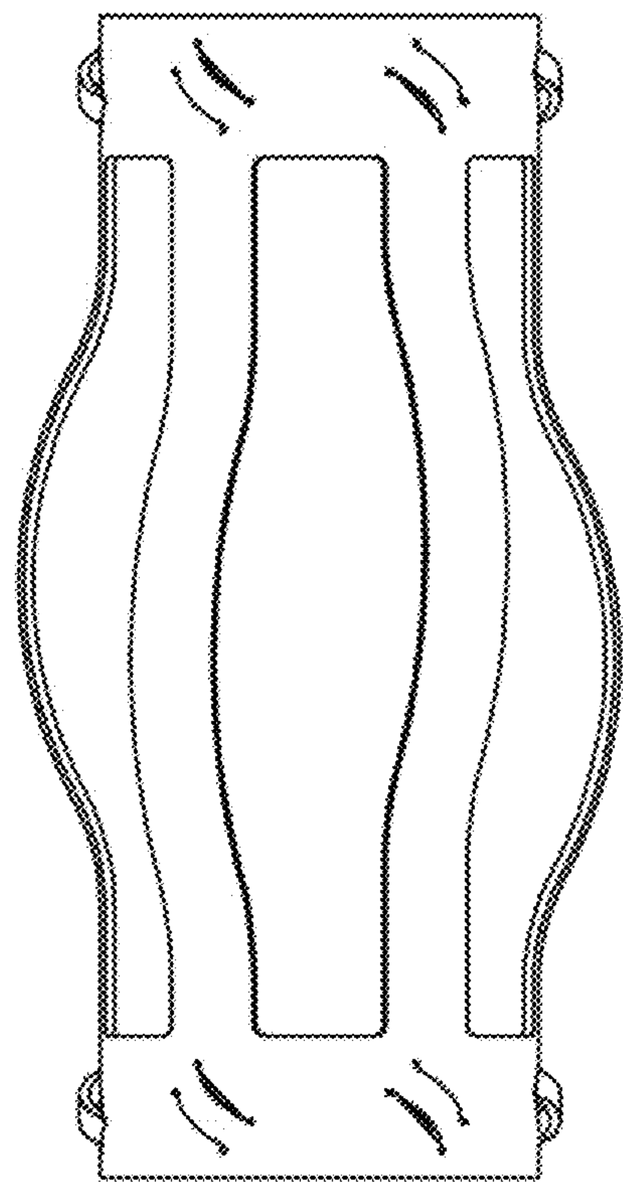

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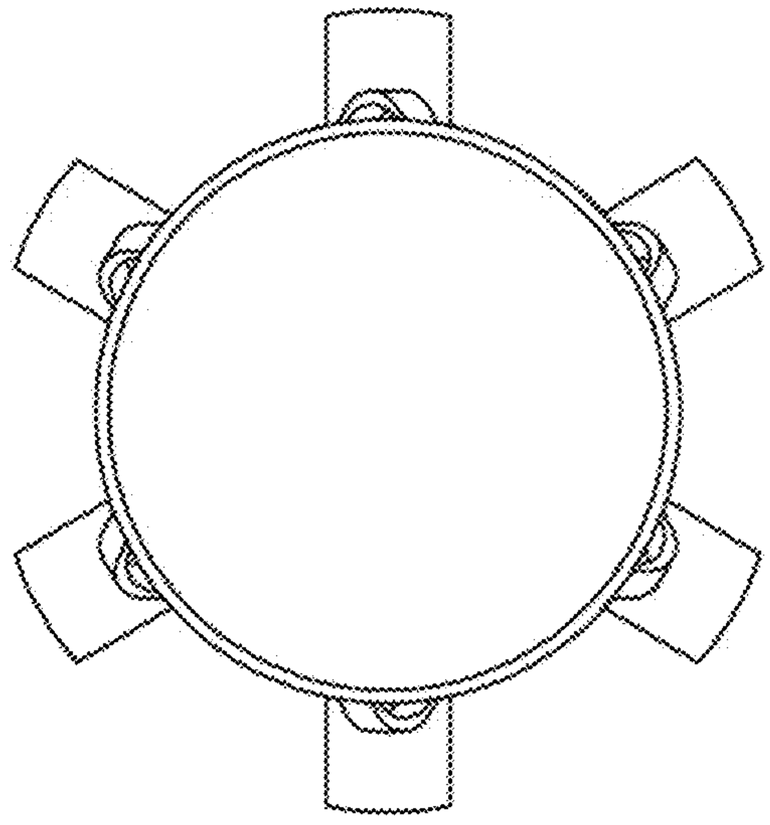

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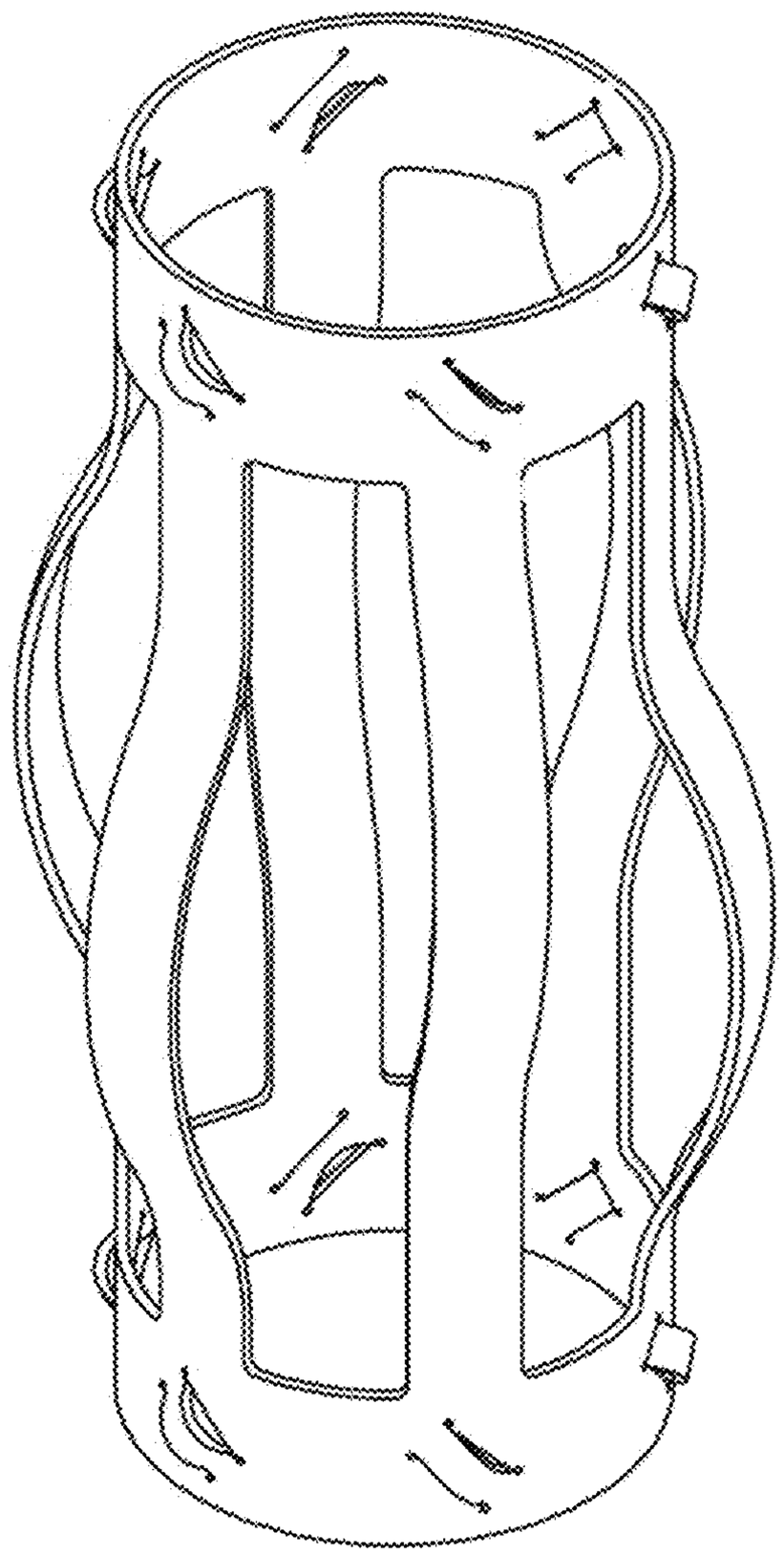

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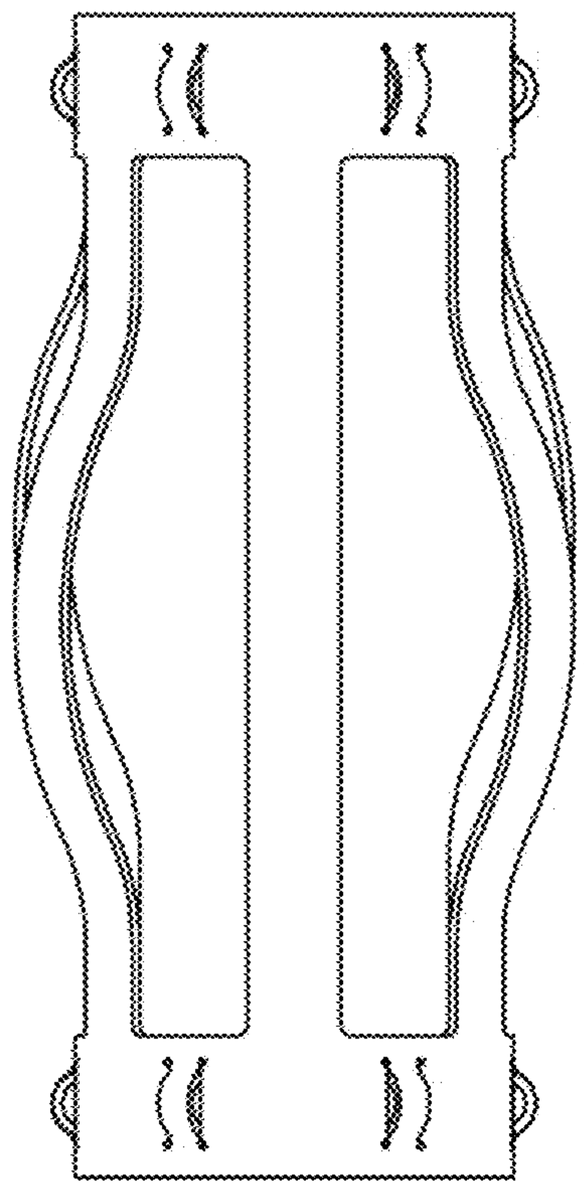

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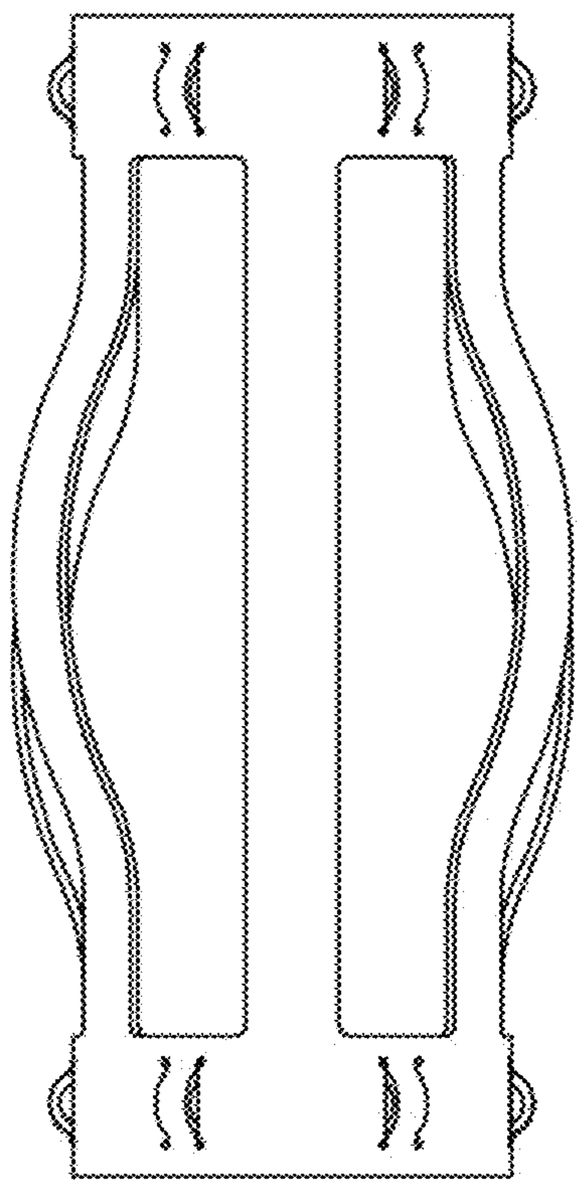

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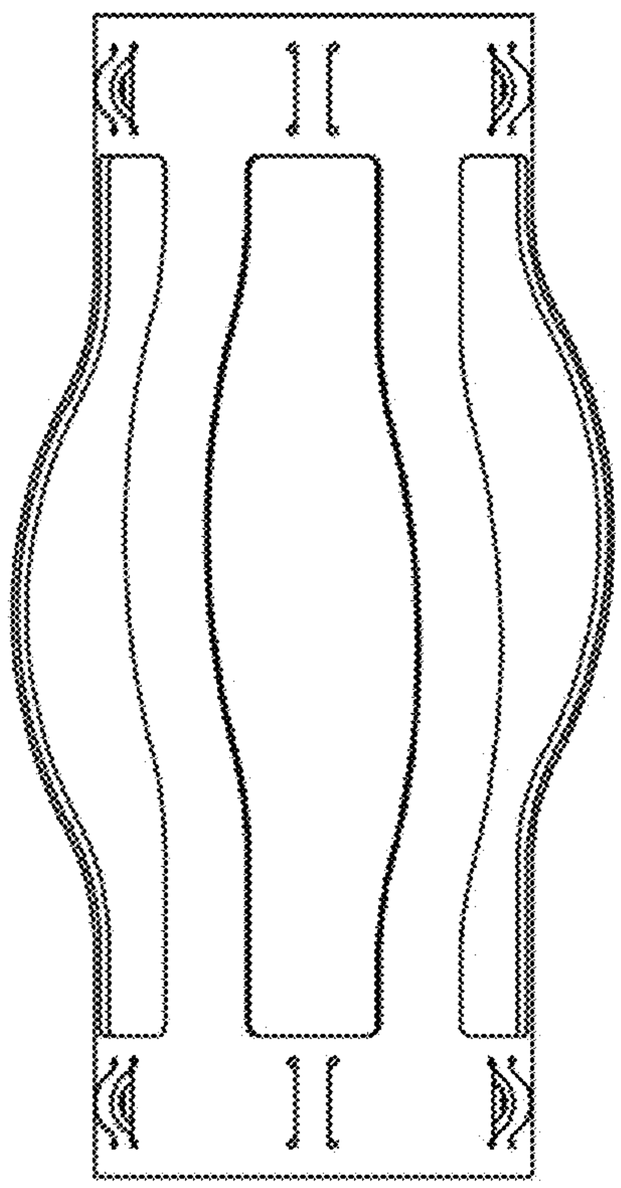

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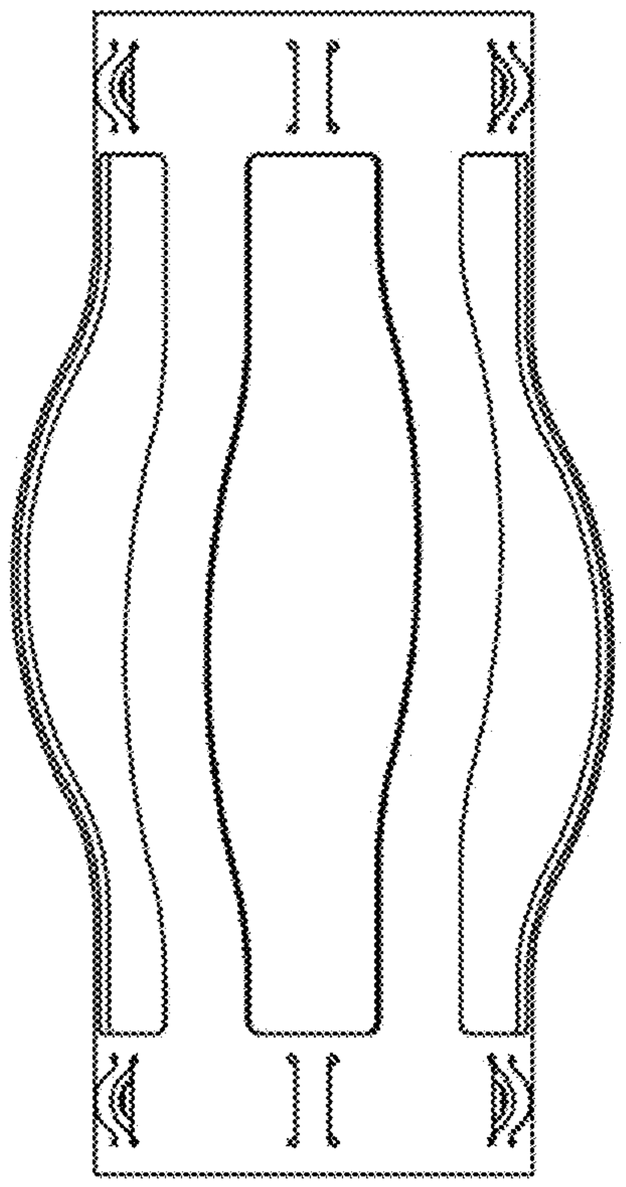

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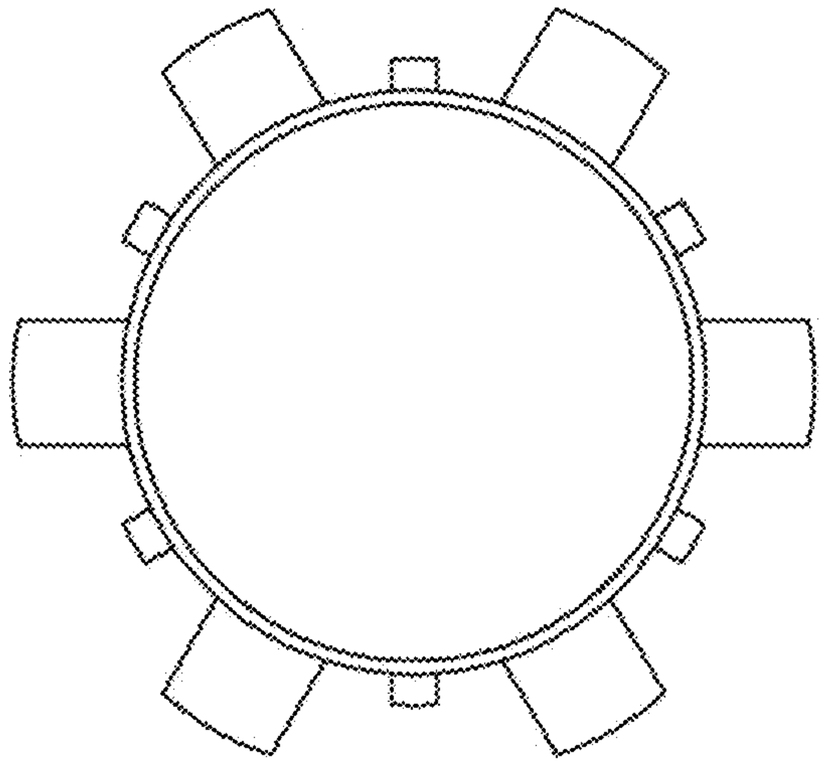

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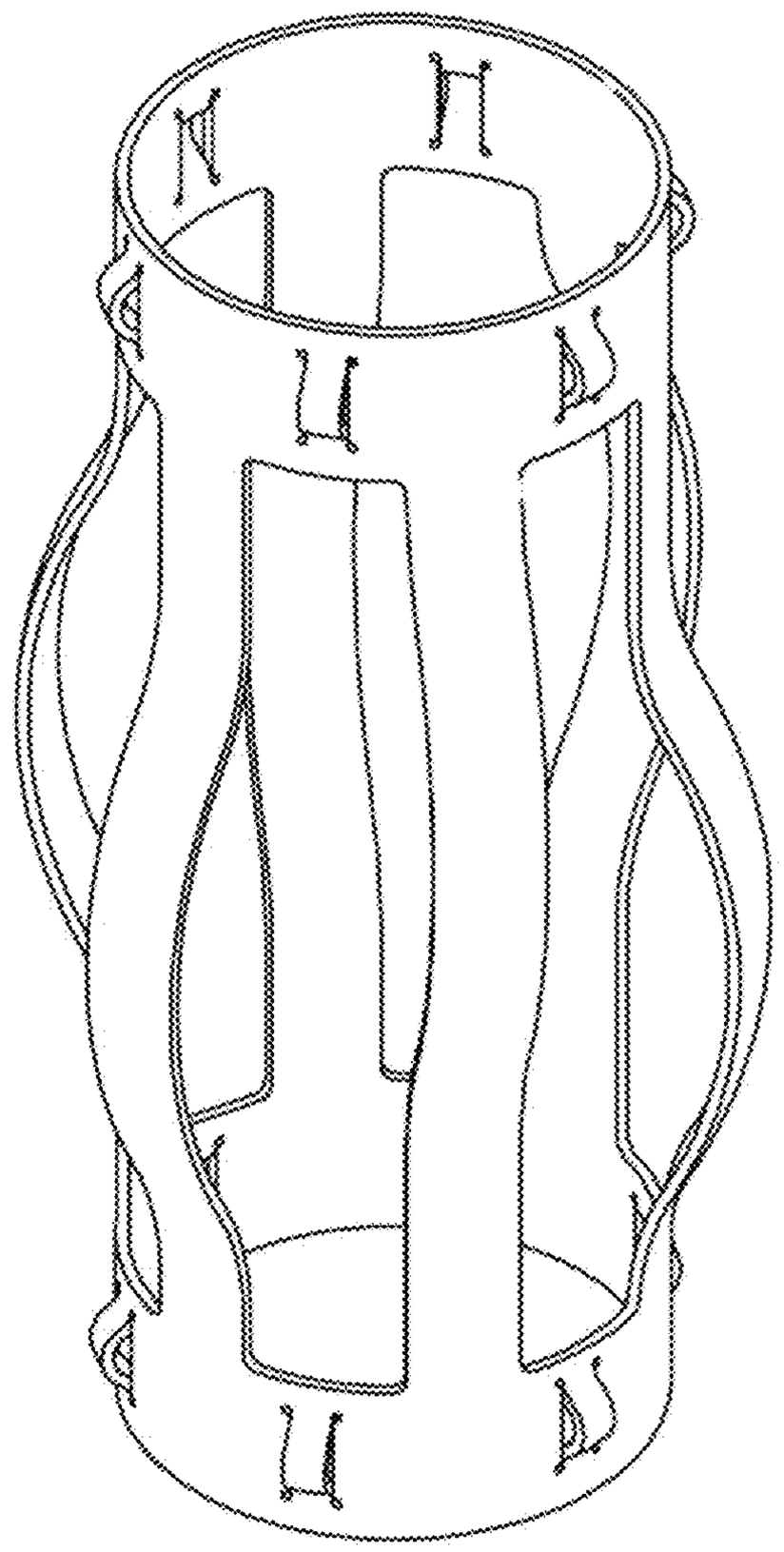

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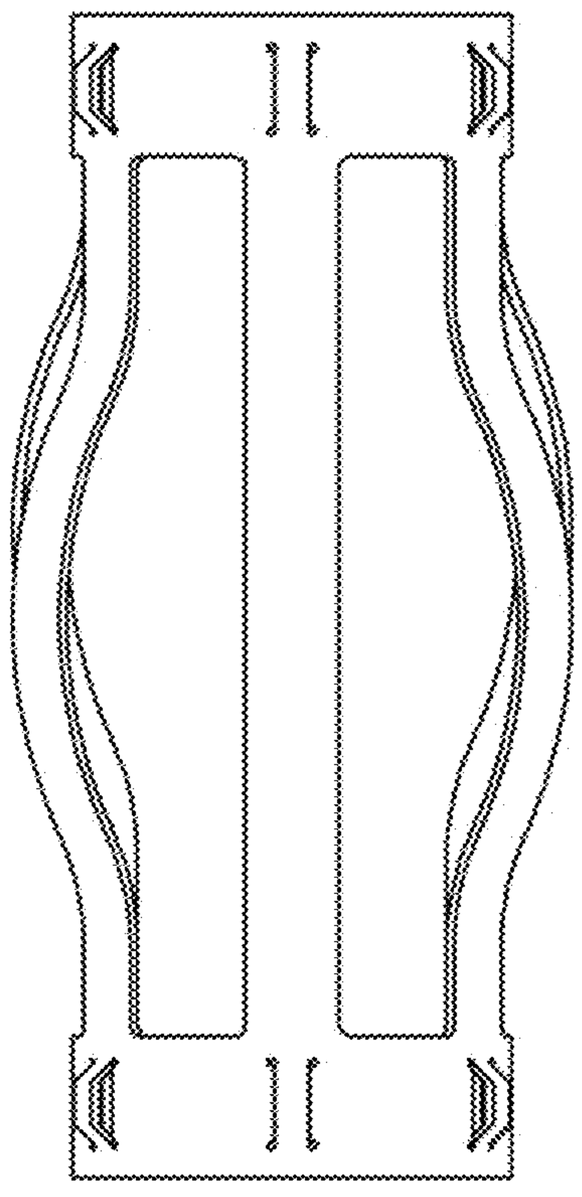

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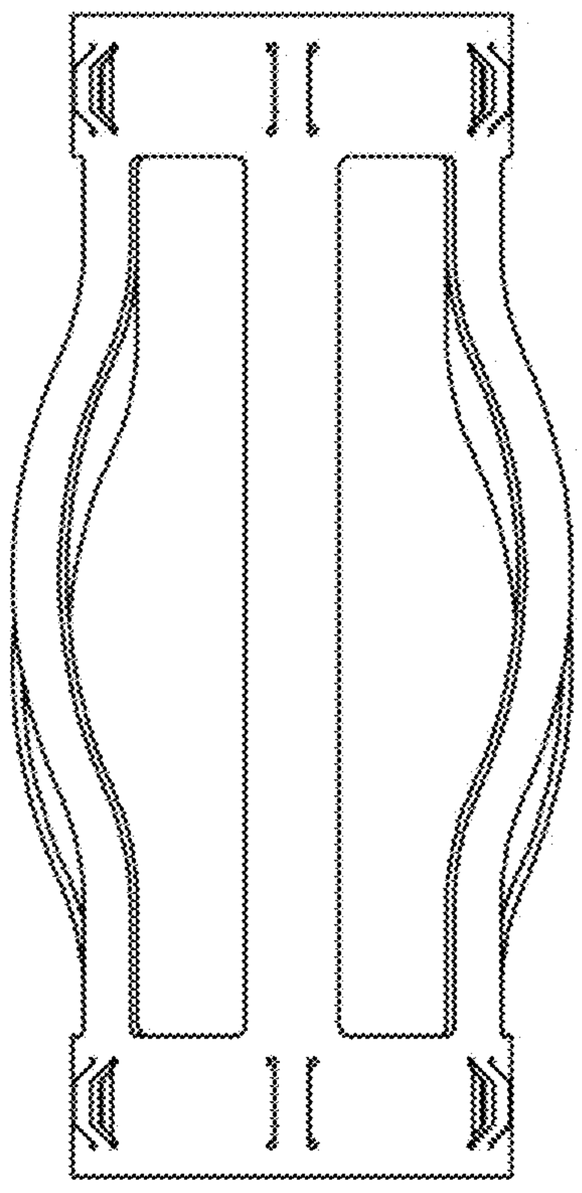

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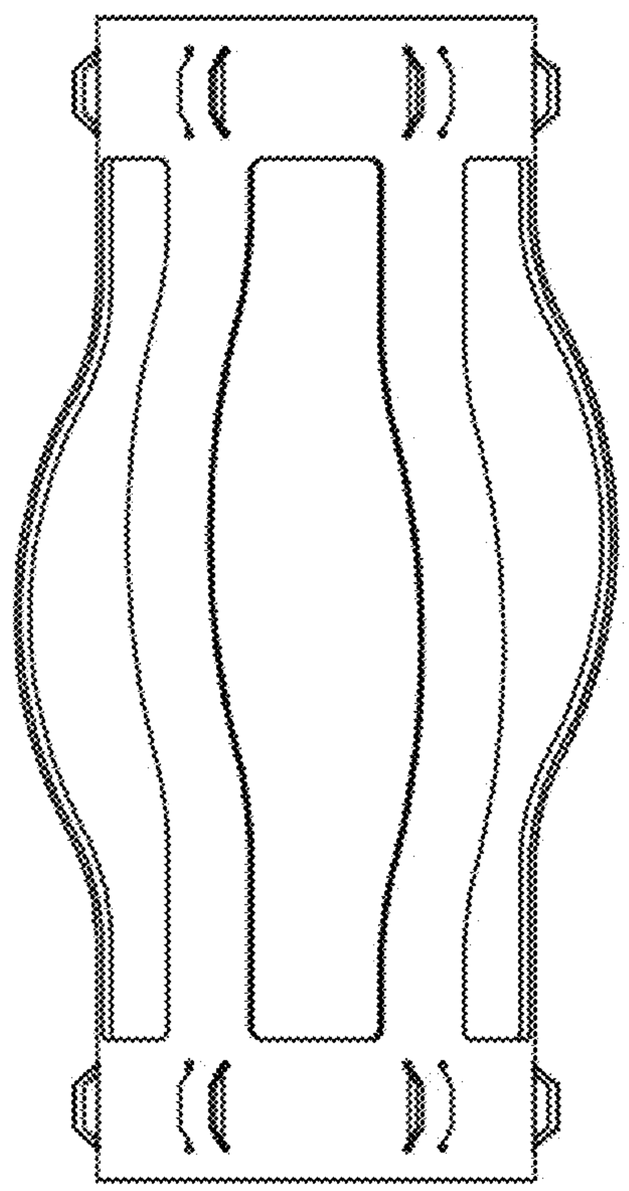

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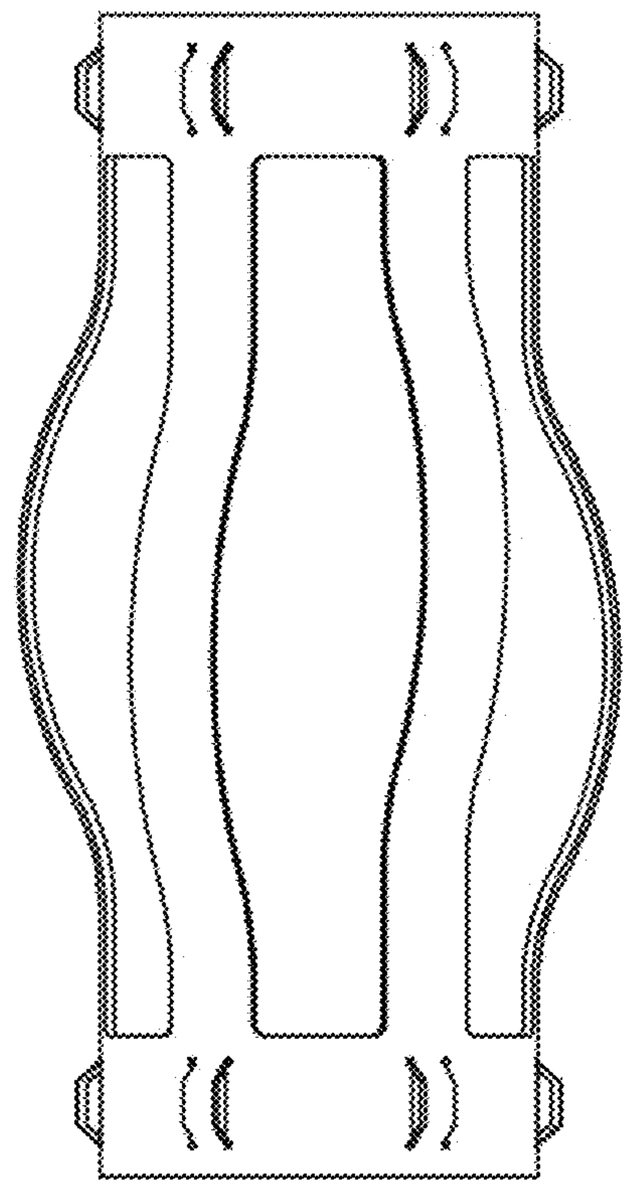

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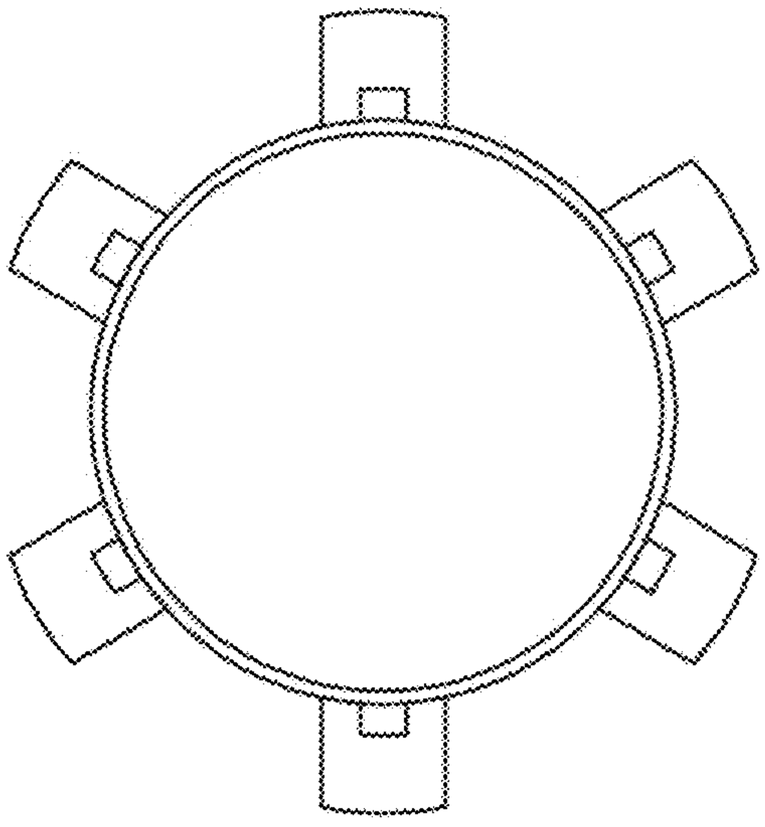

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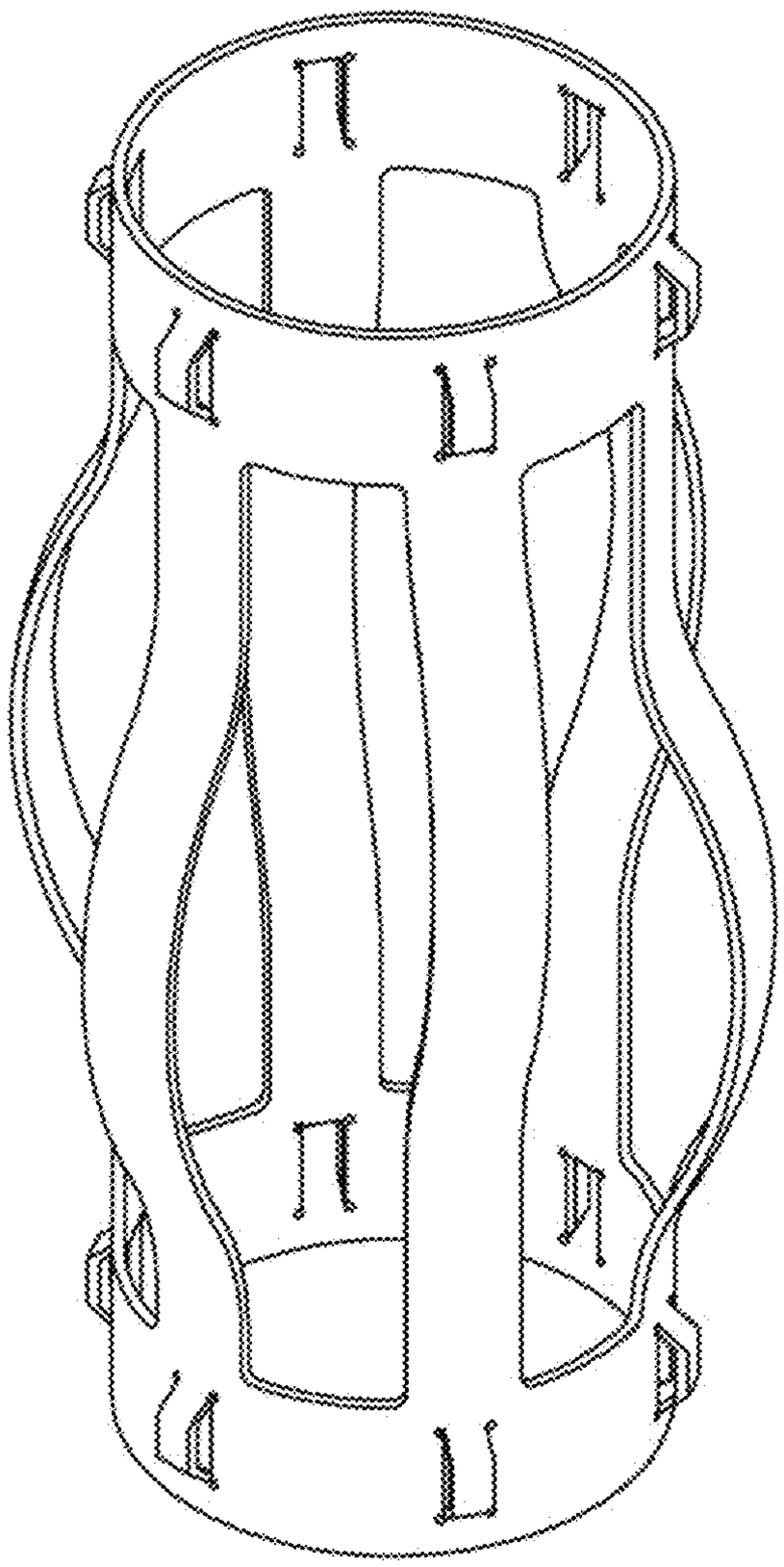

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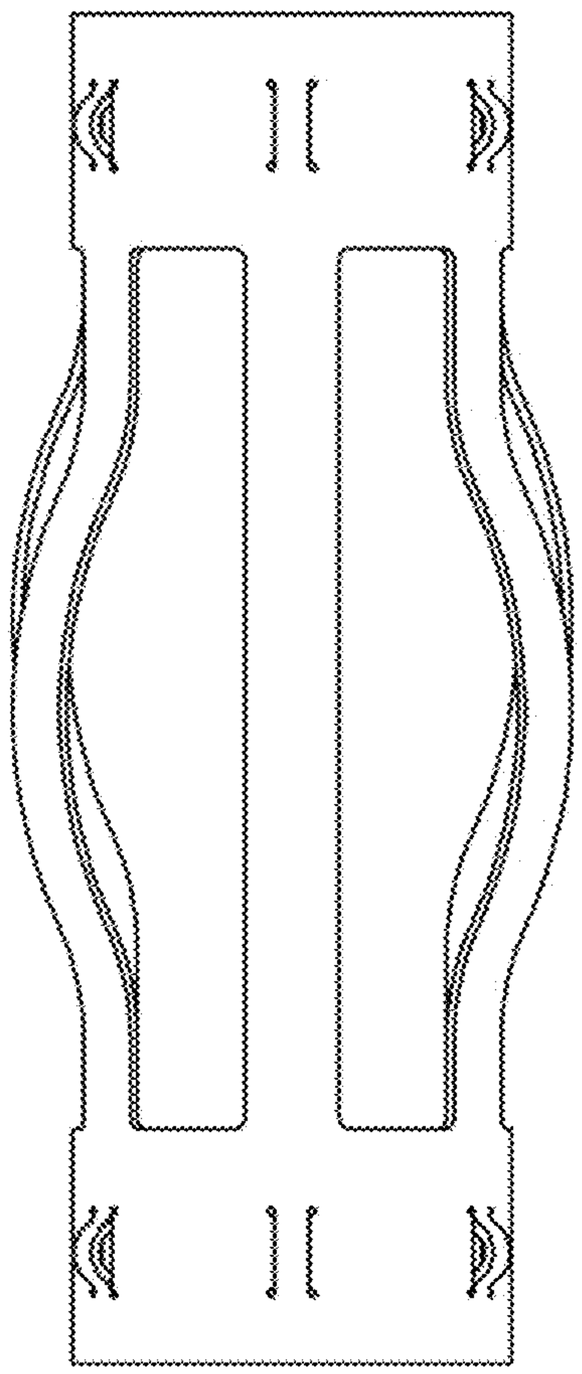

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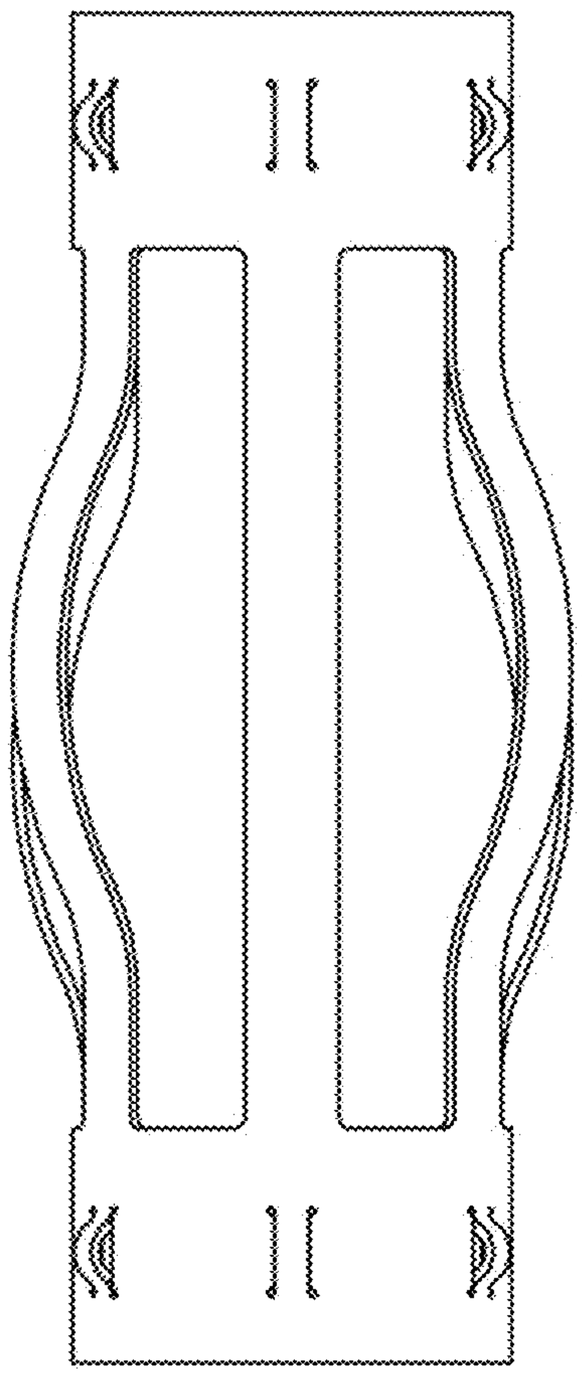

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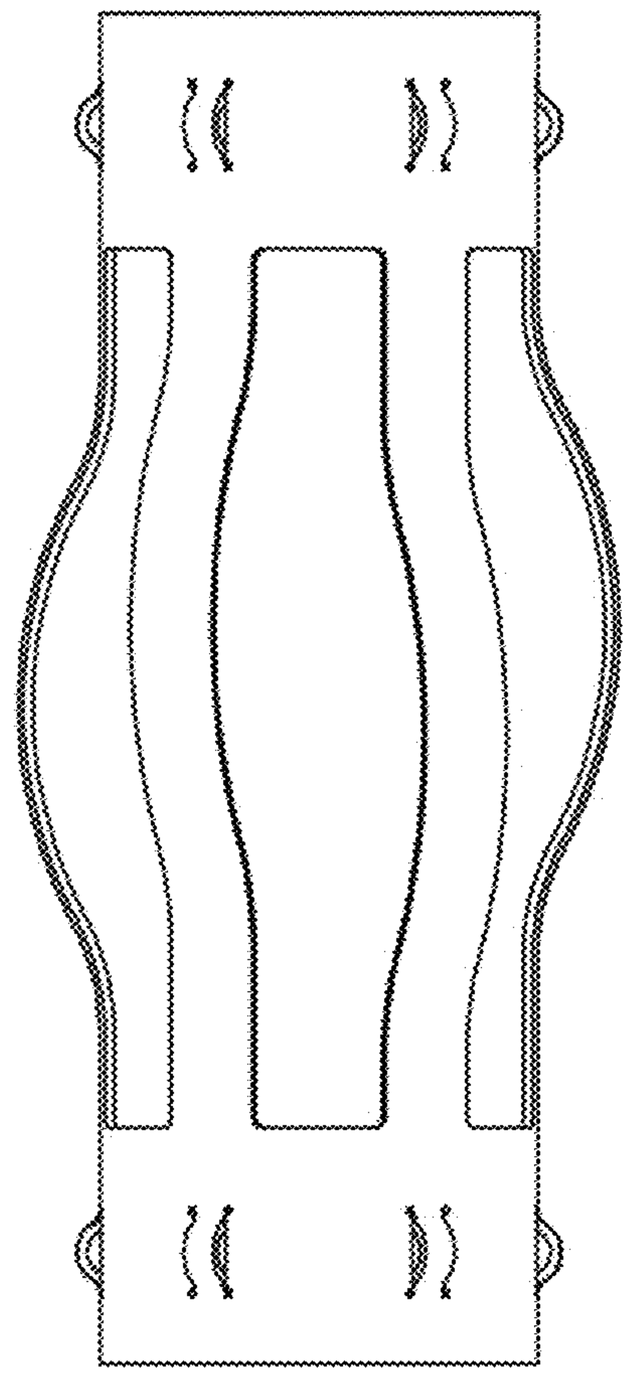

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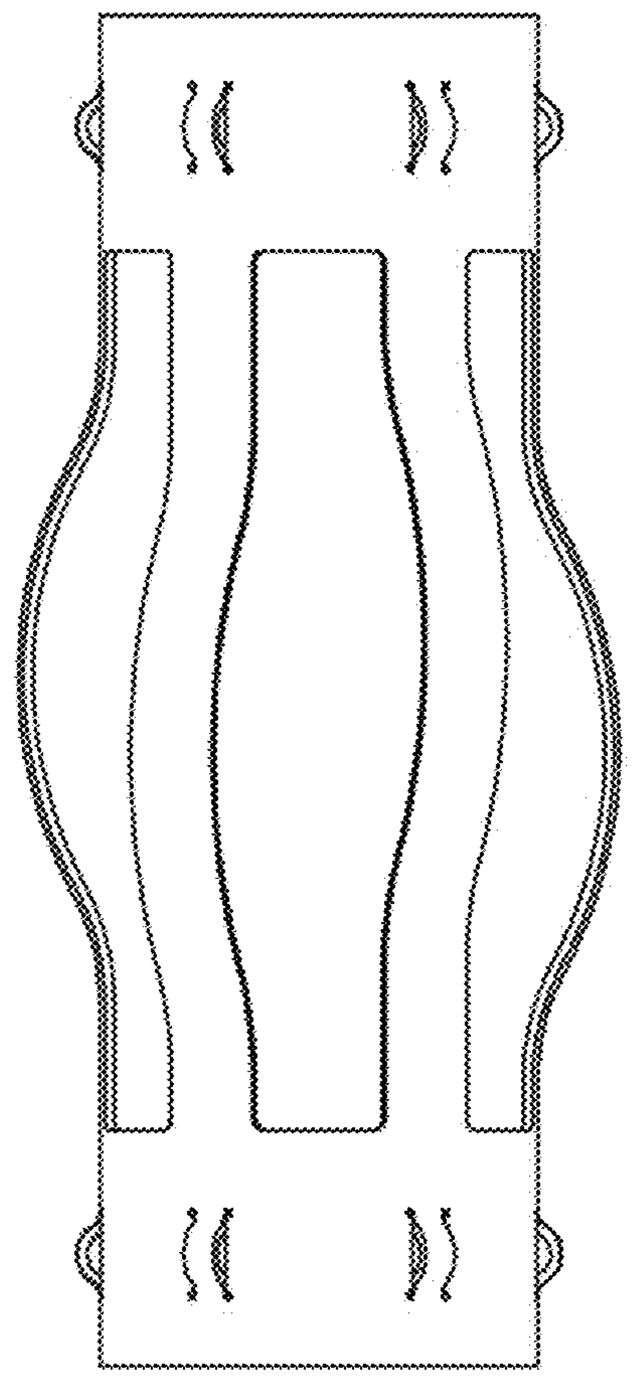

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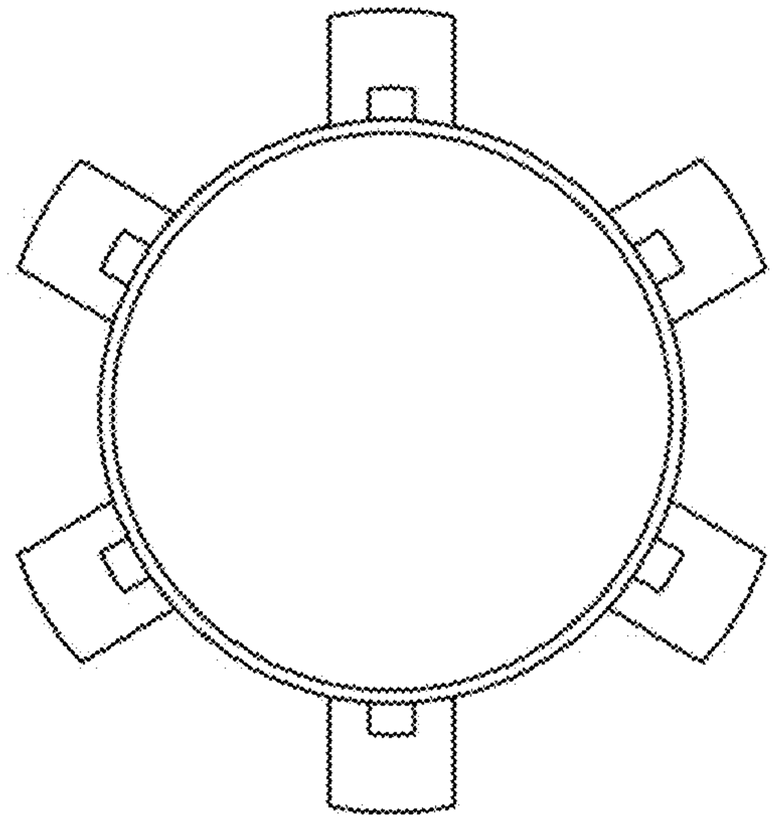

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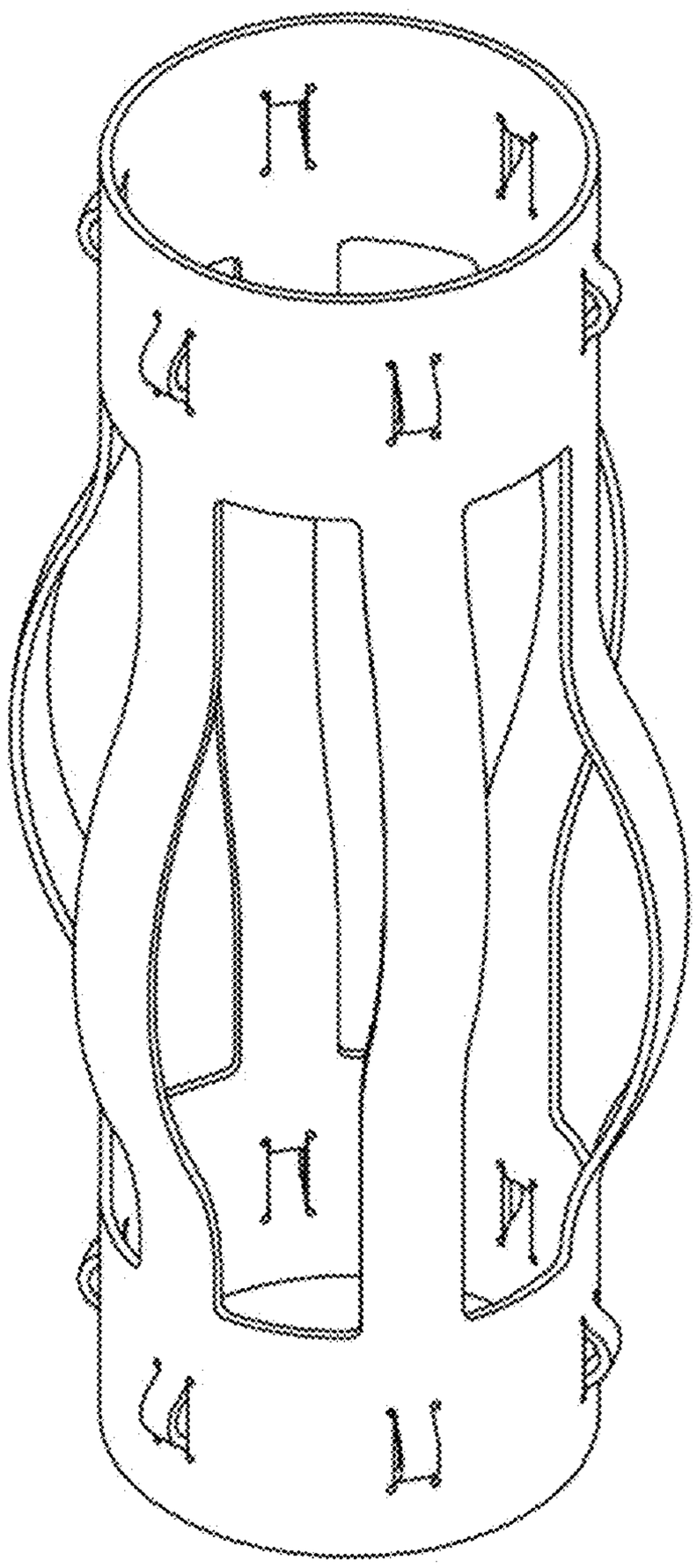

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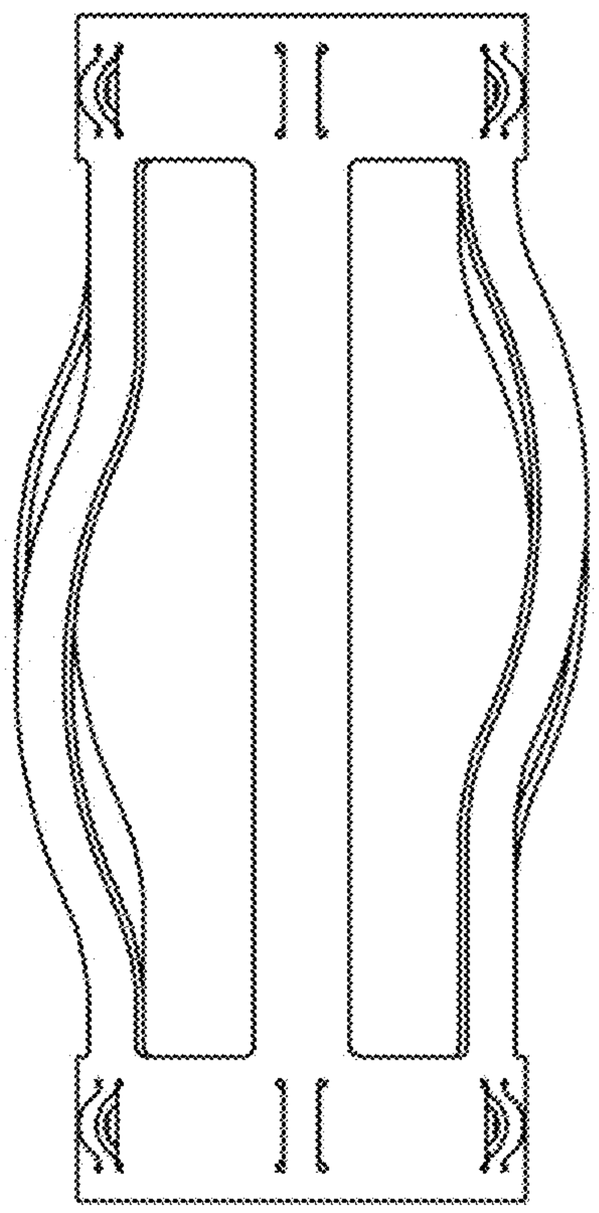

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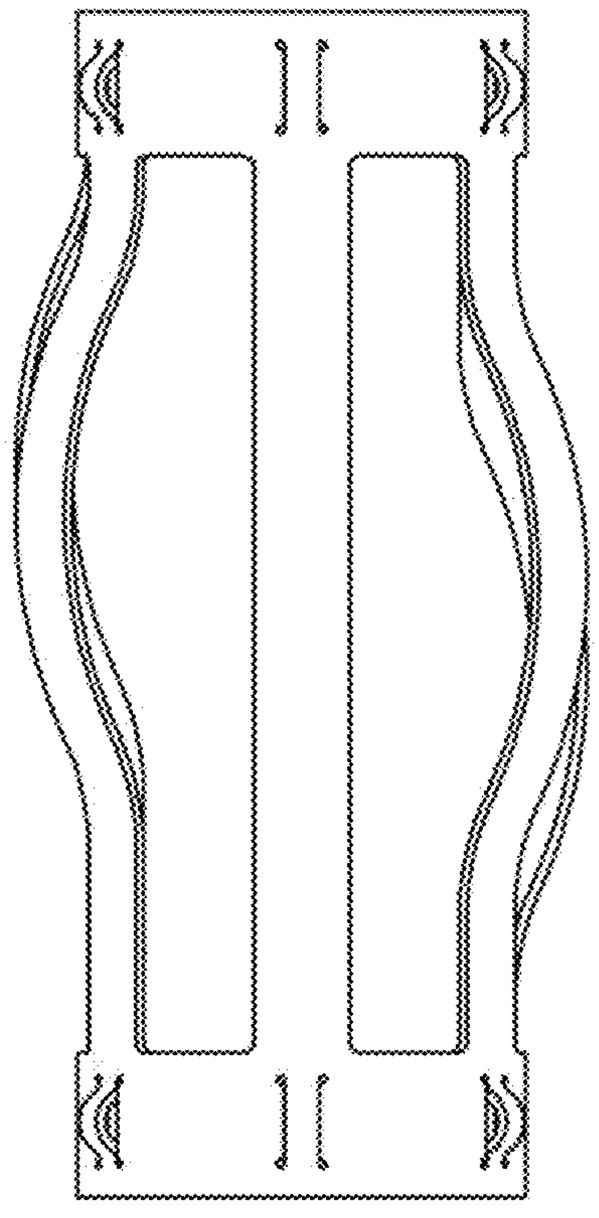

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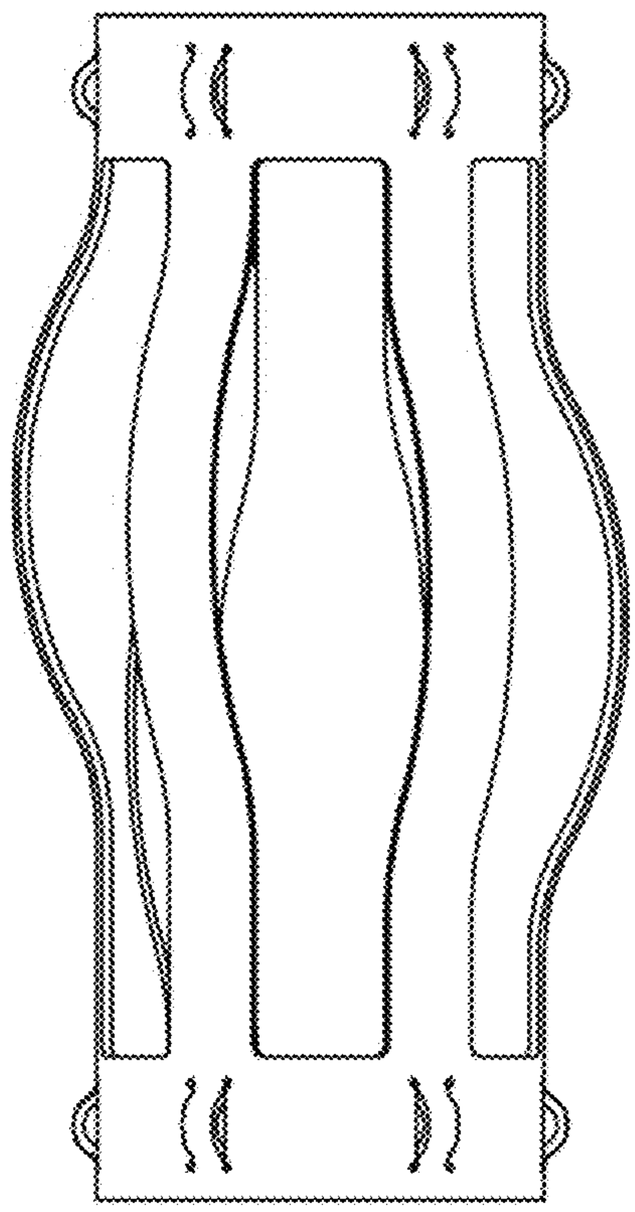

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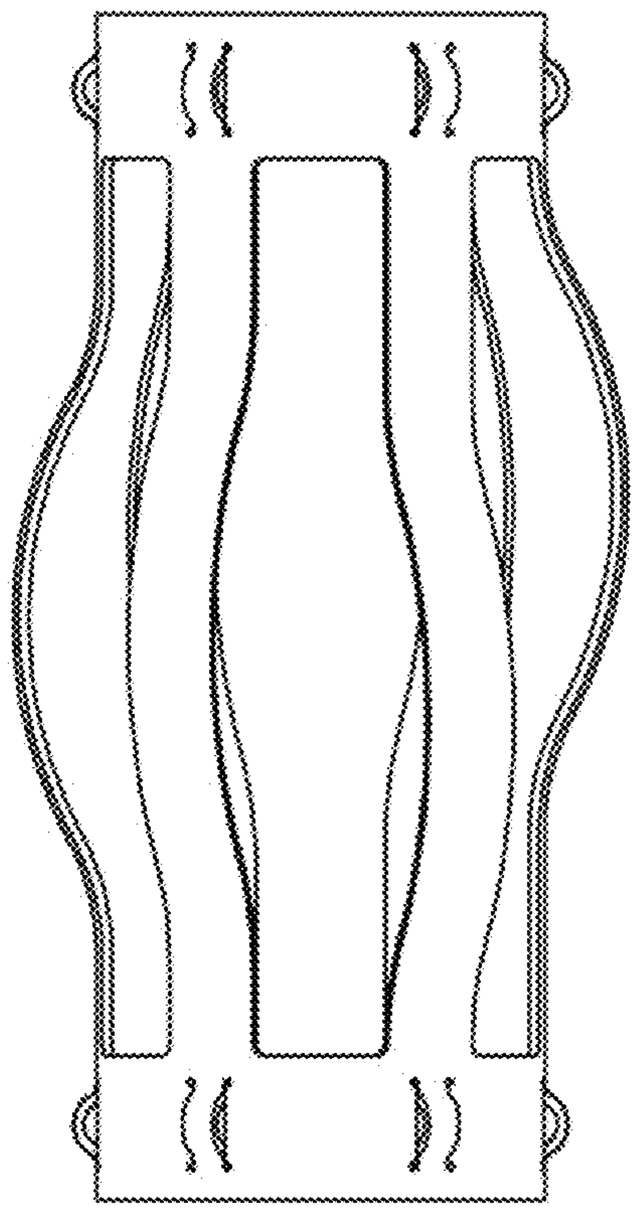

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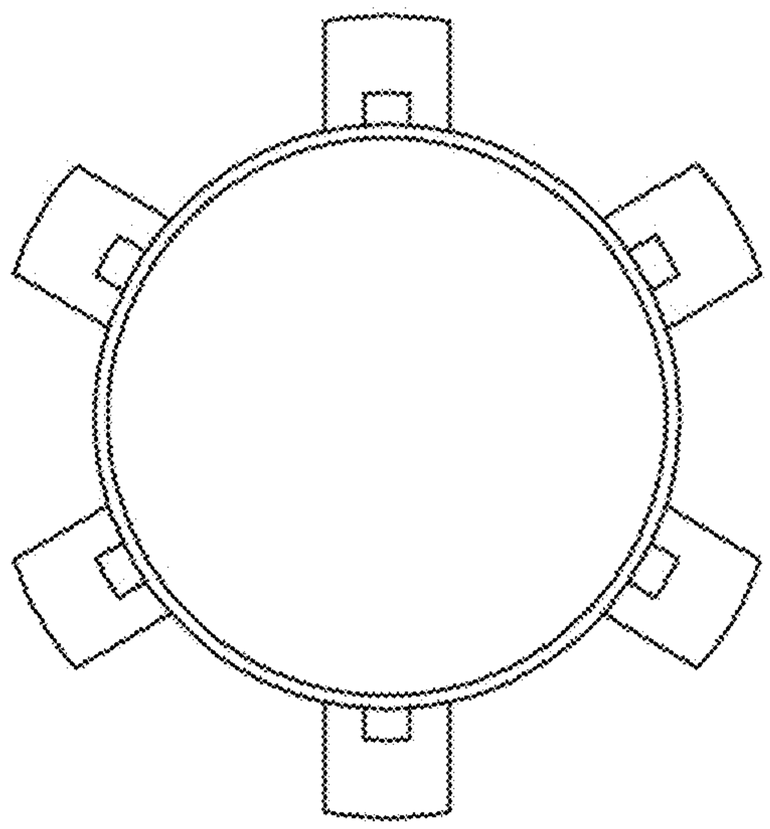

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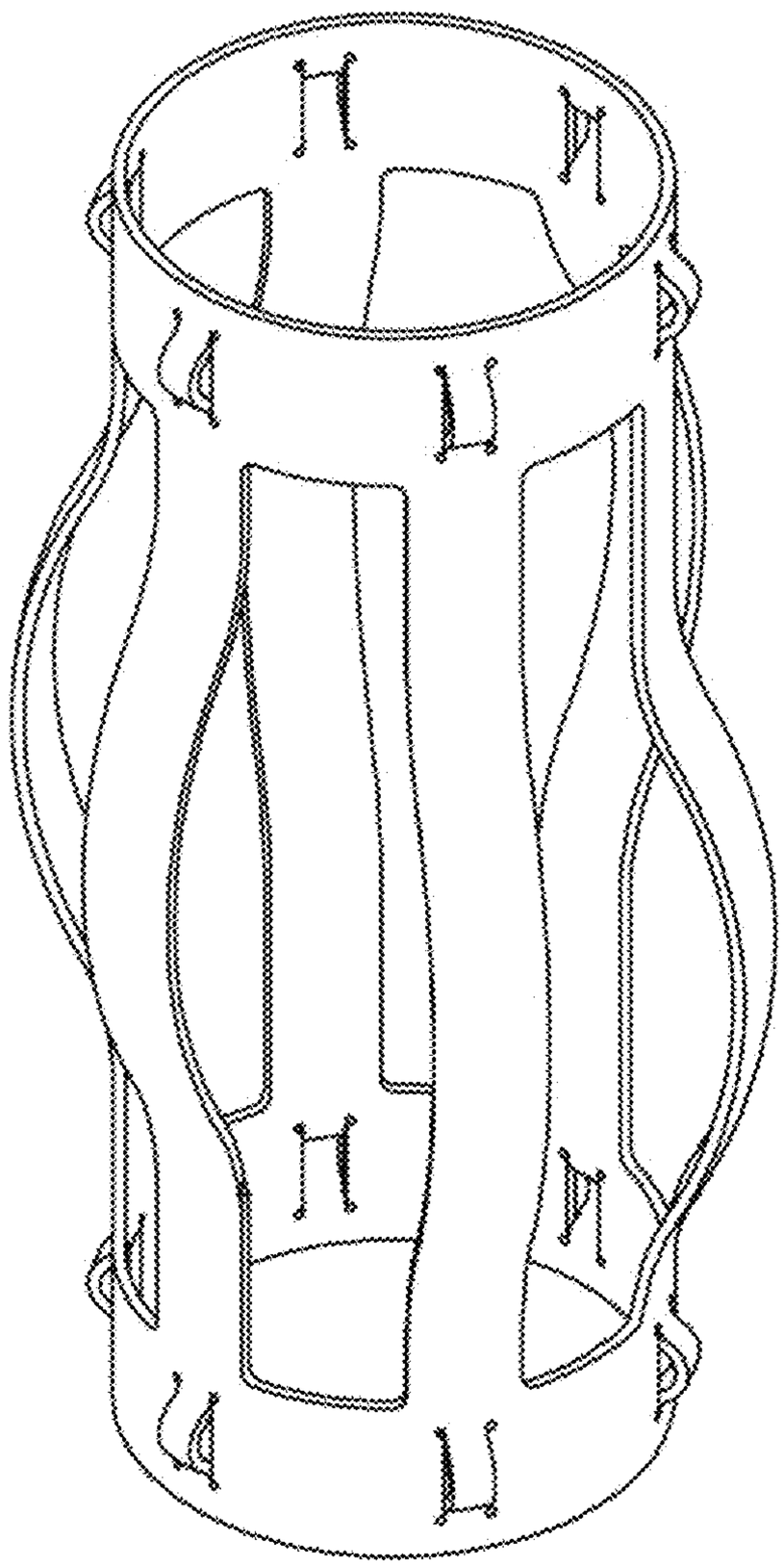

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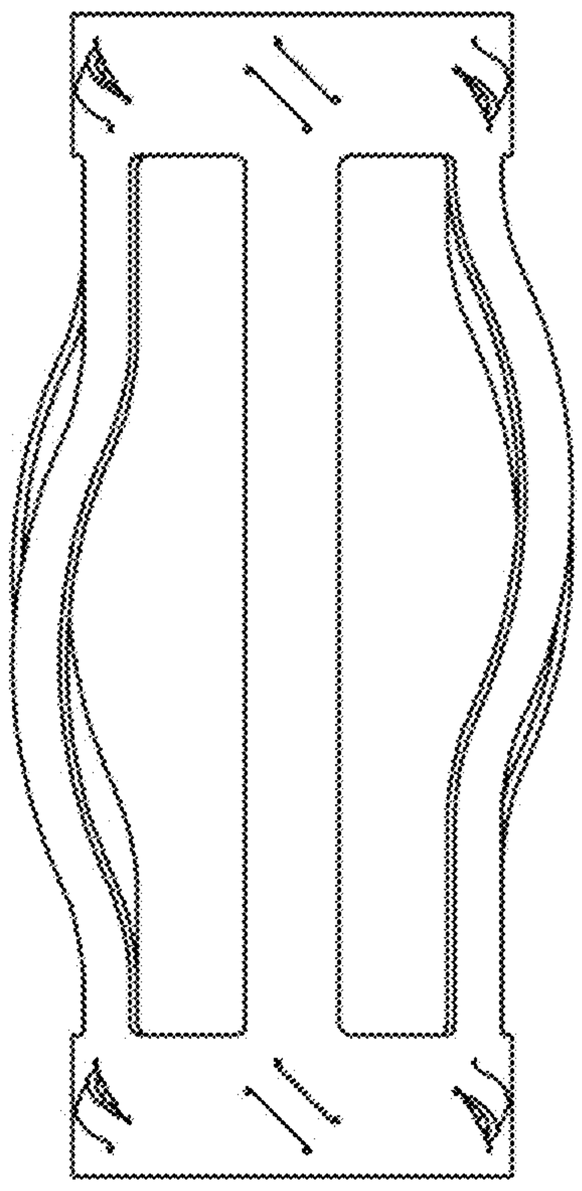

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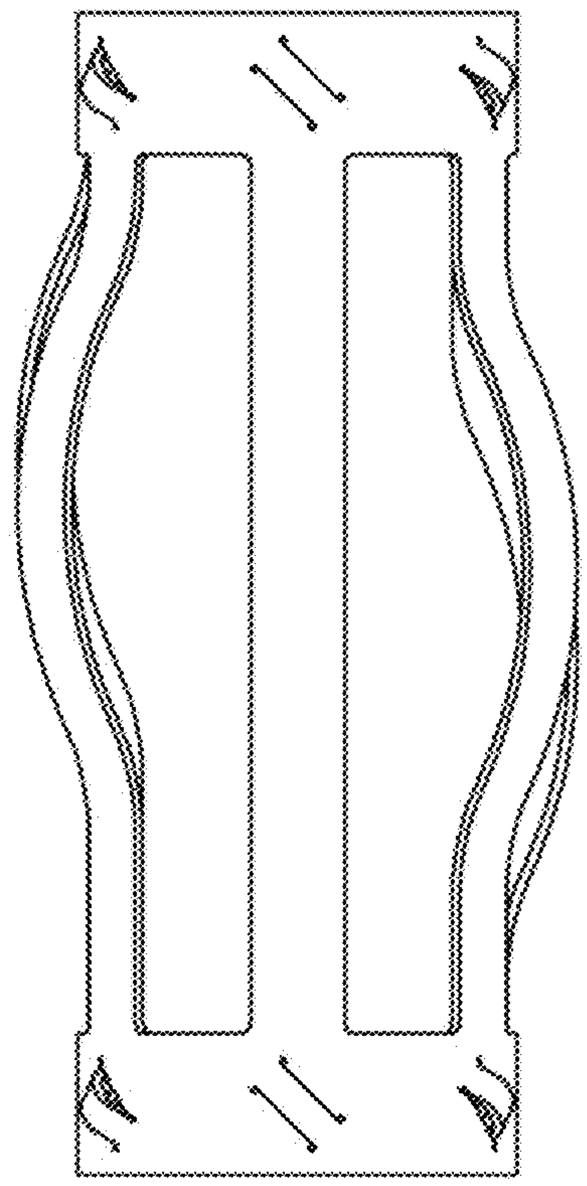

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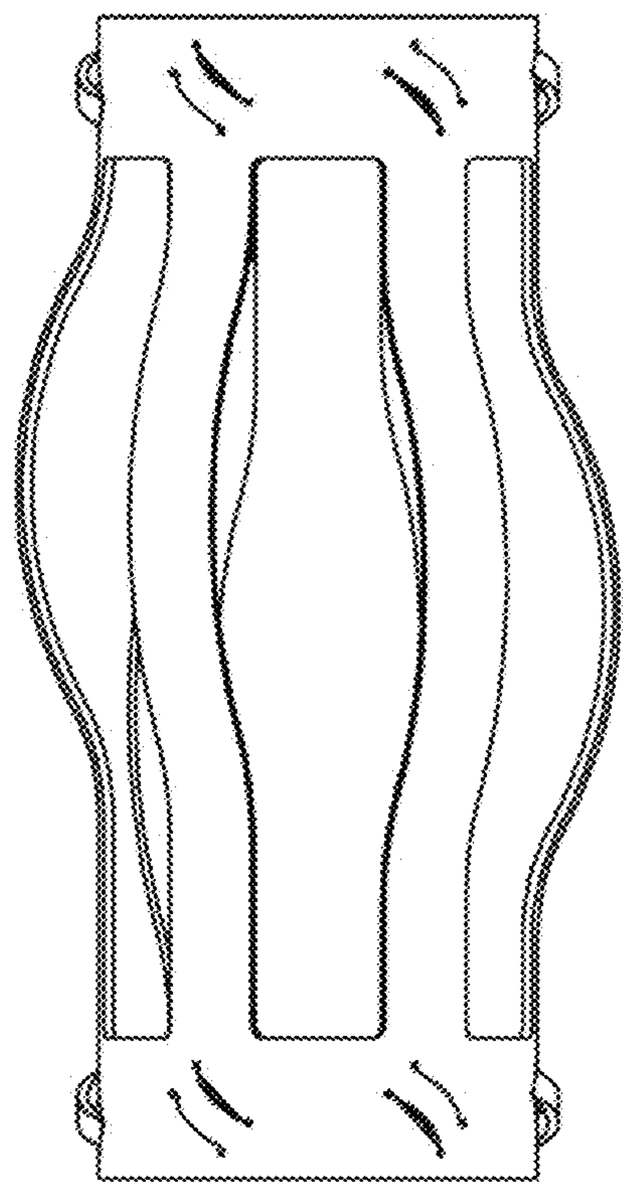

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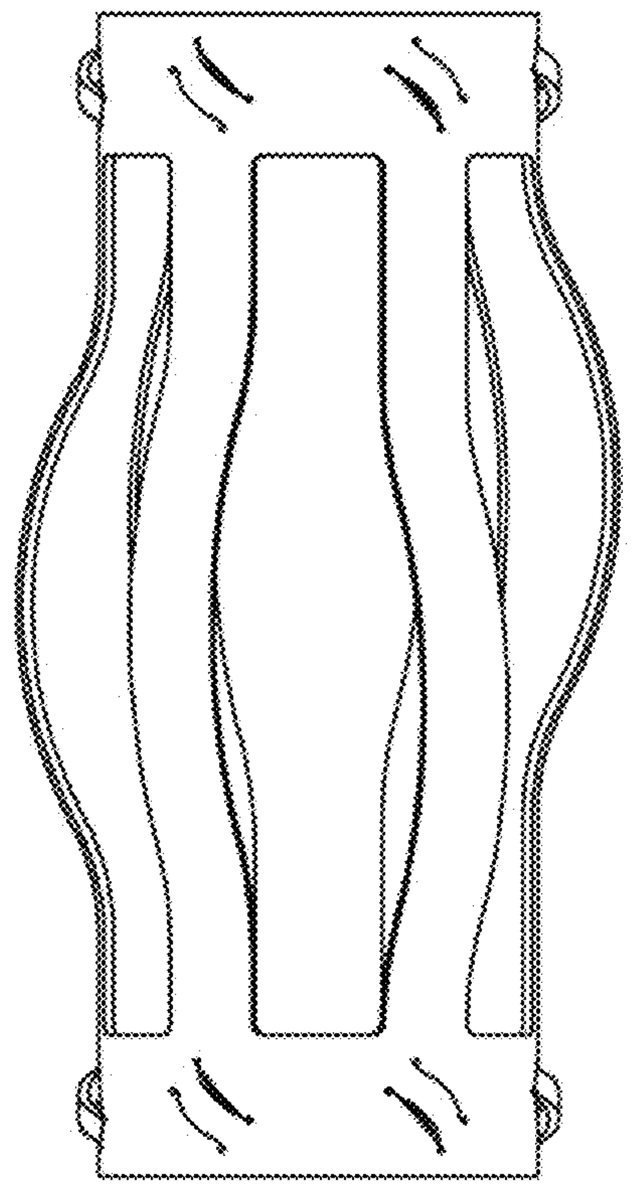

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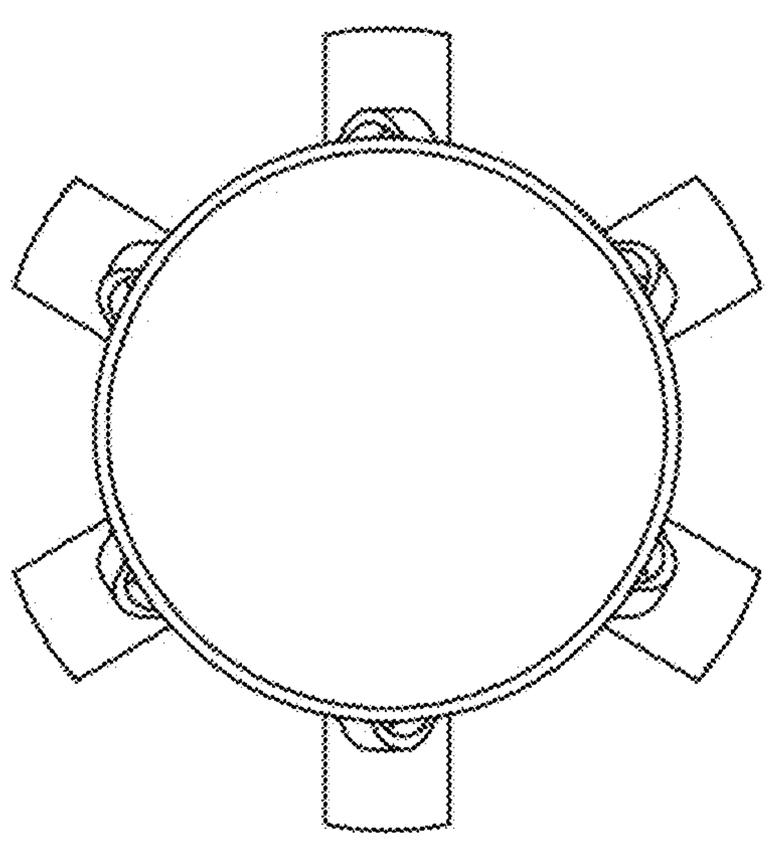

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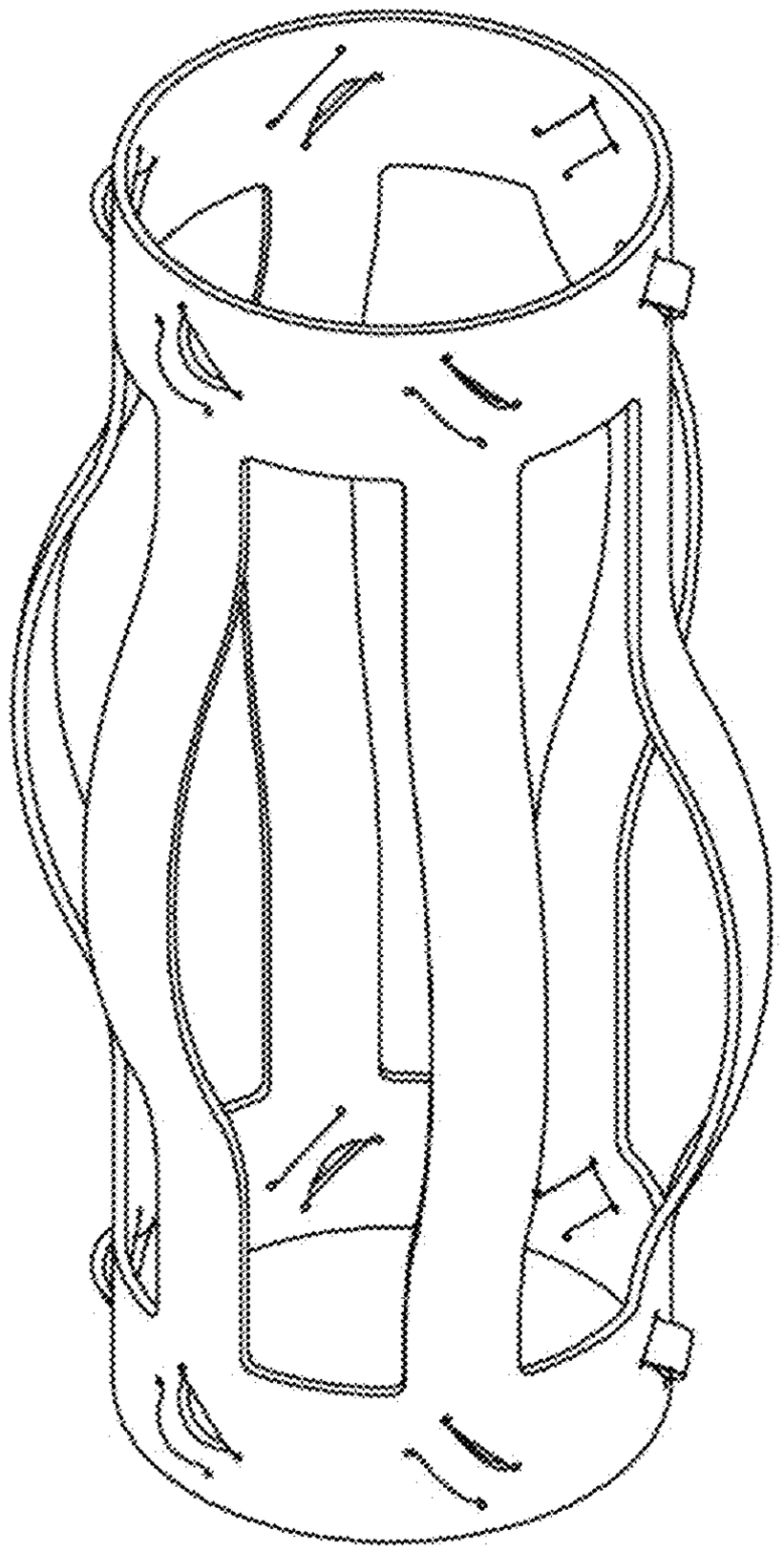

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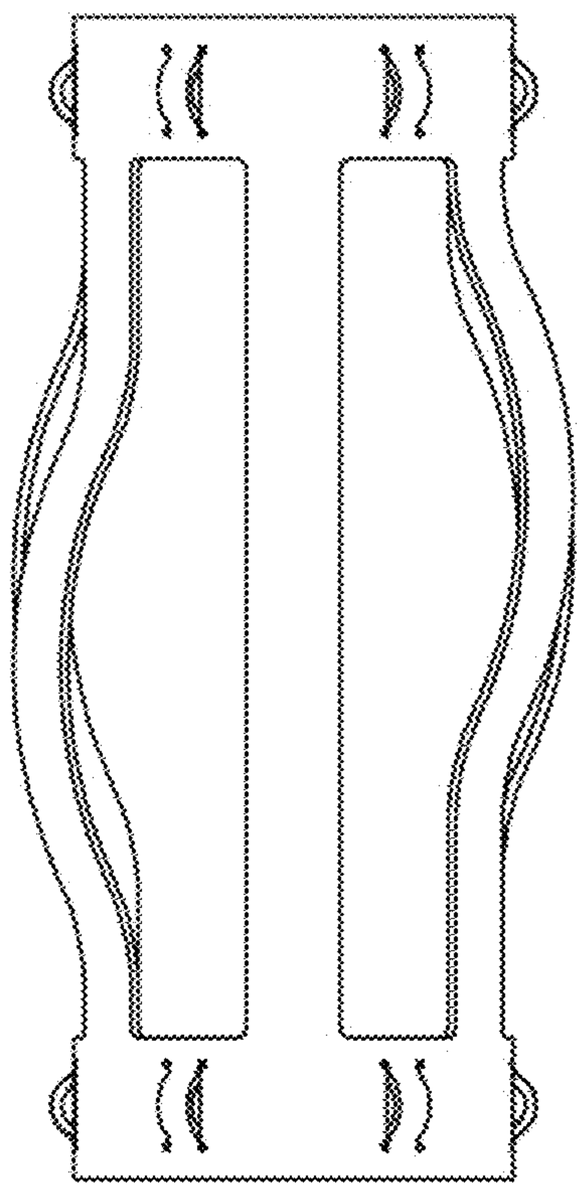
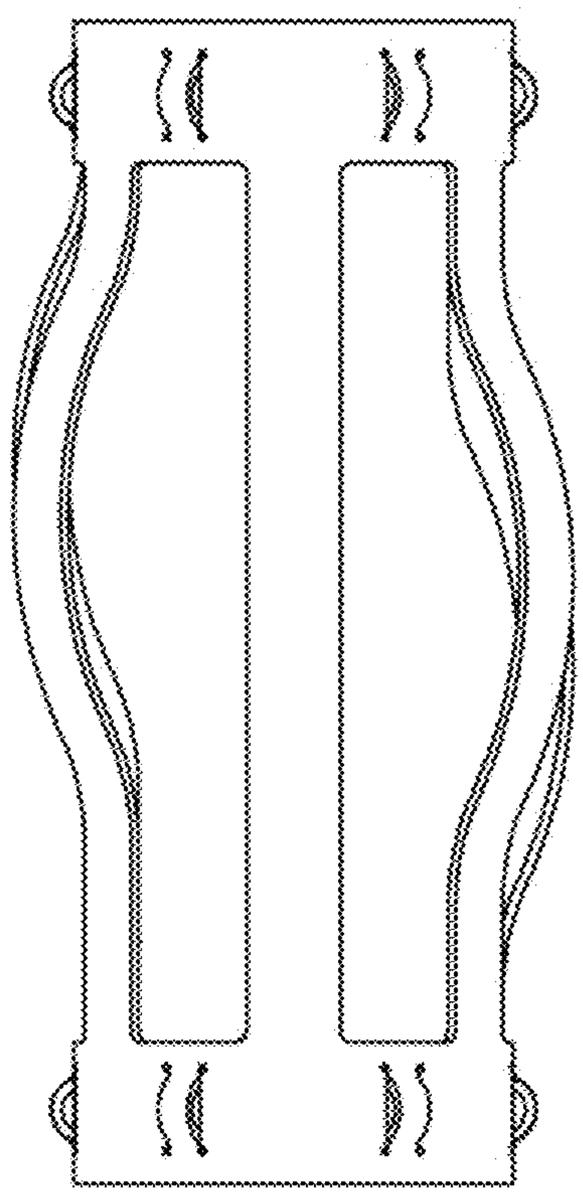


Figure 43



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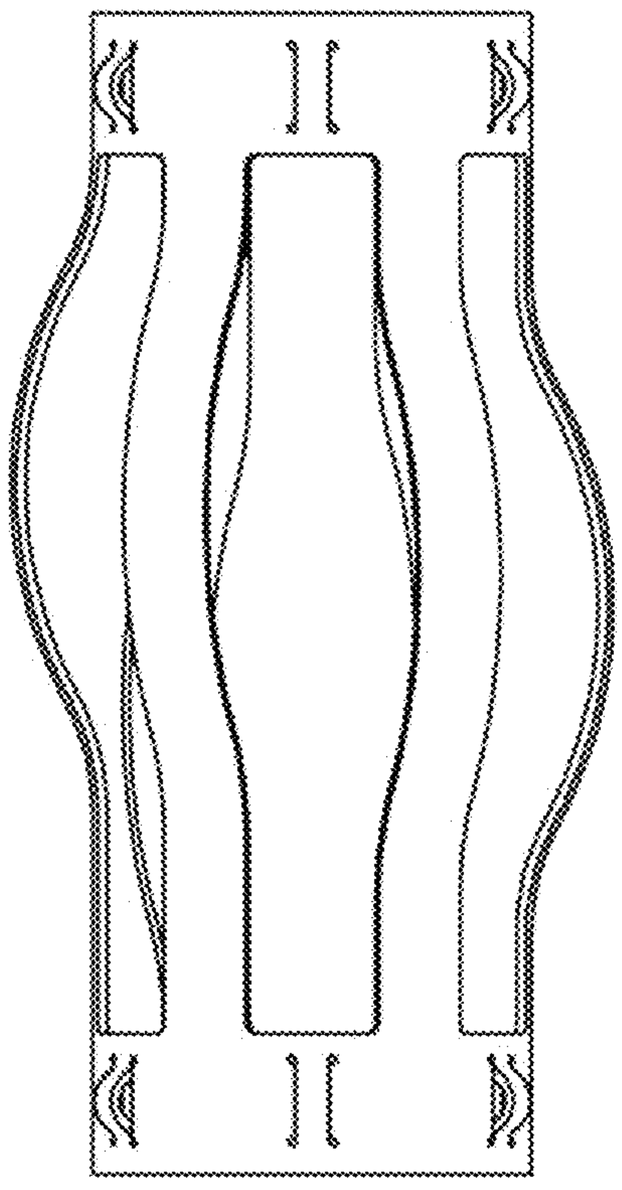

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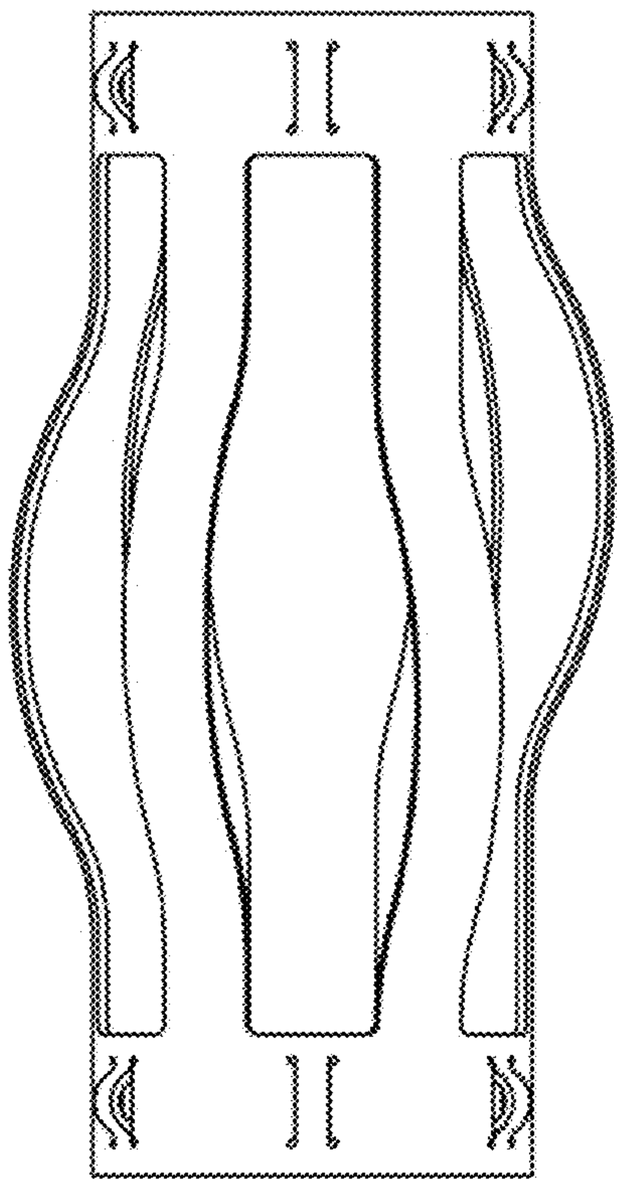

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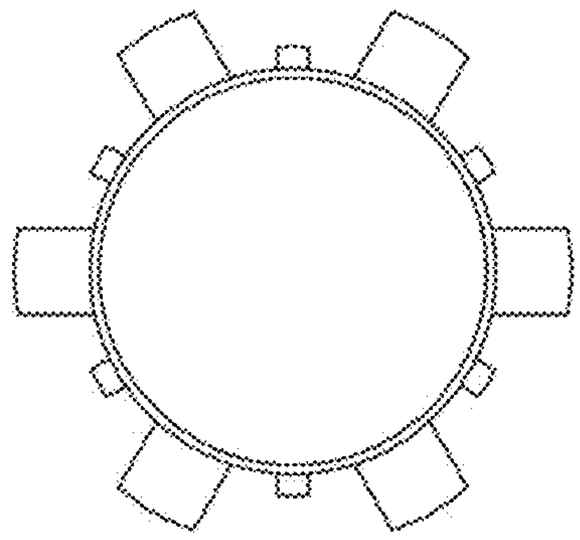

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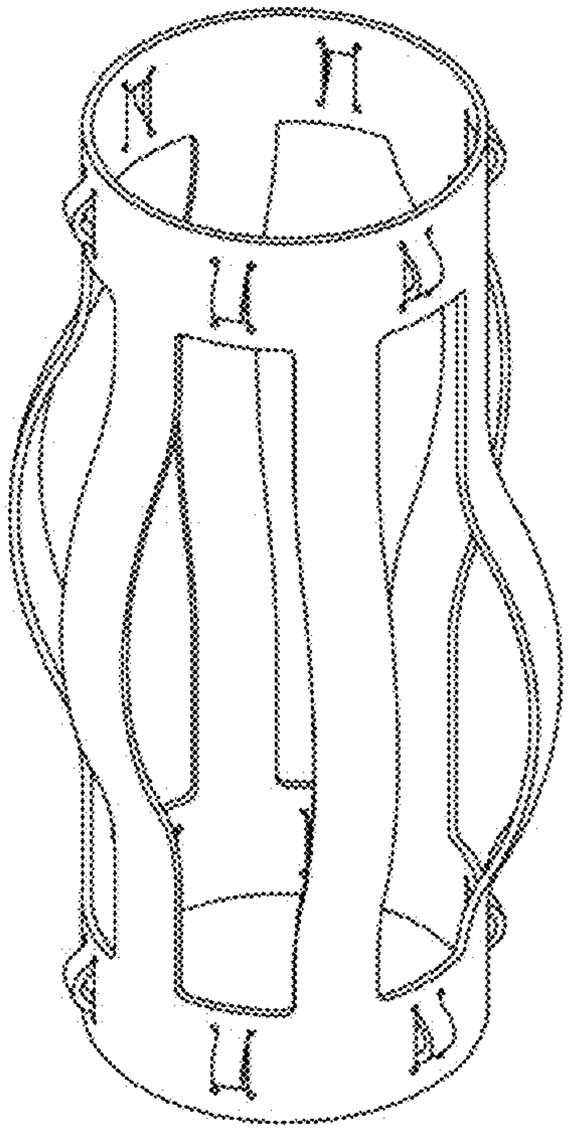

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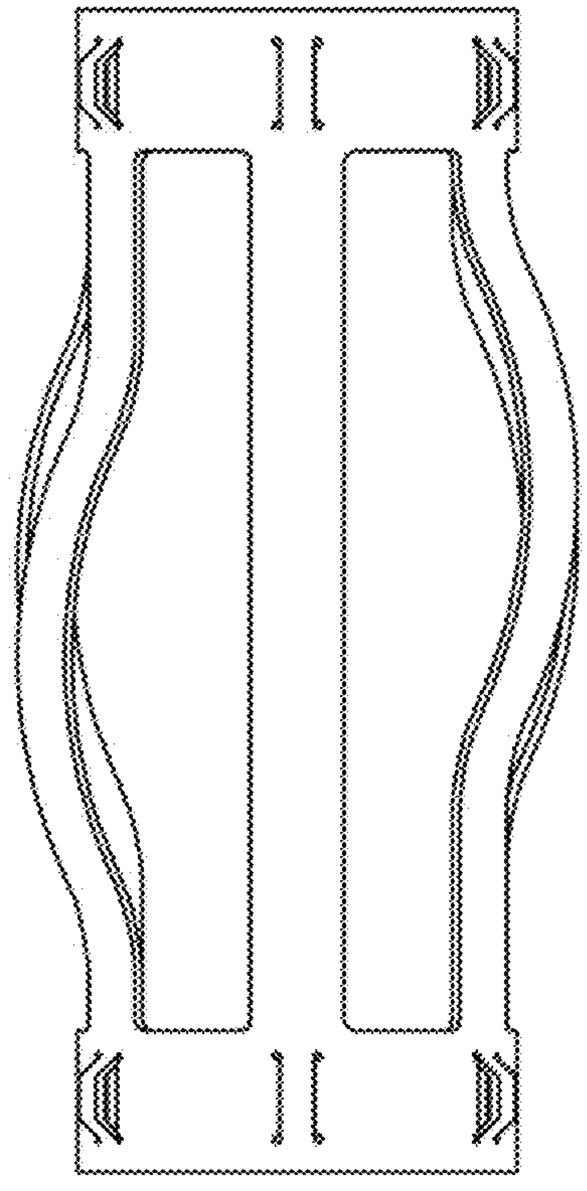

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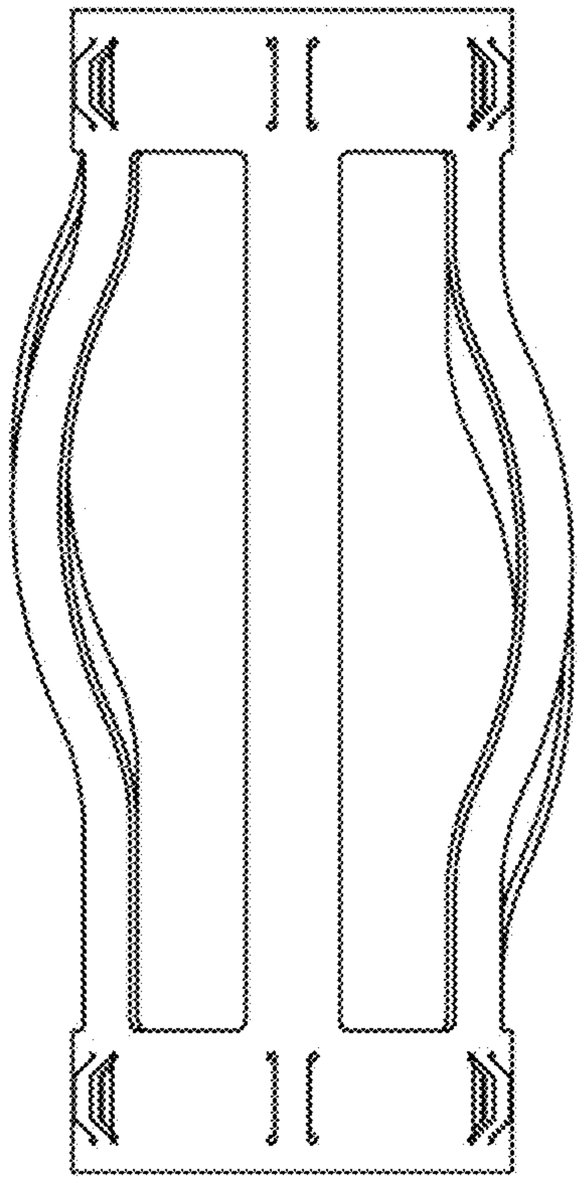

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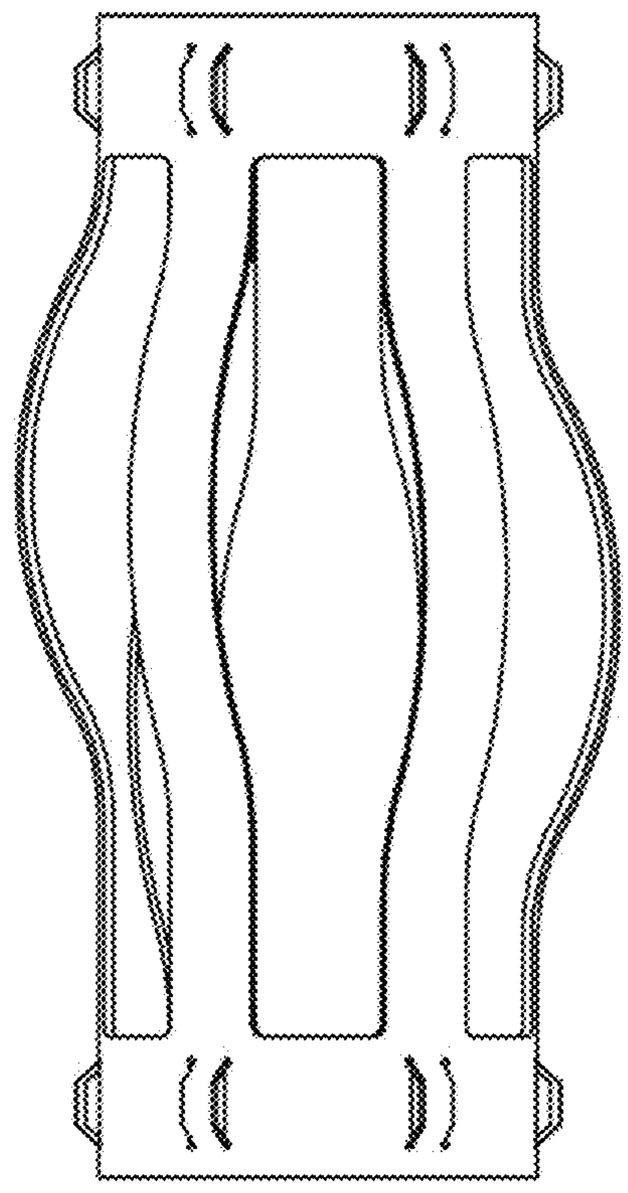

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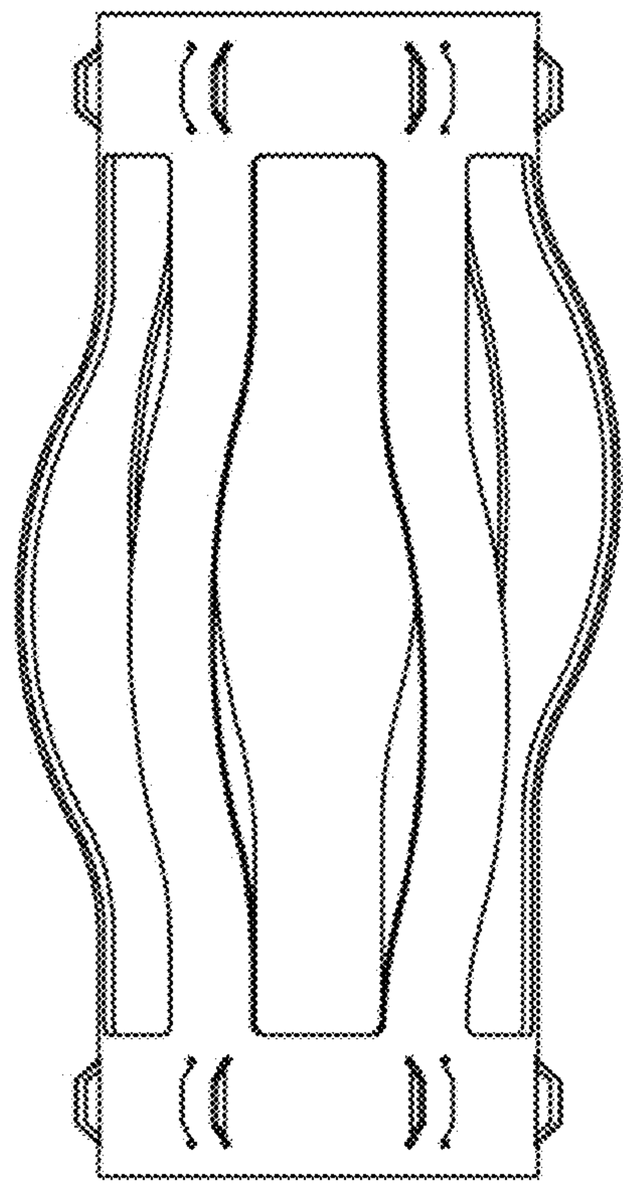

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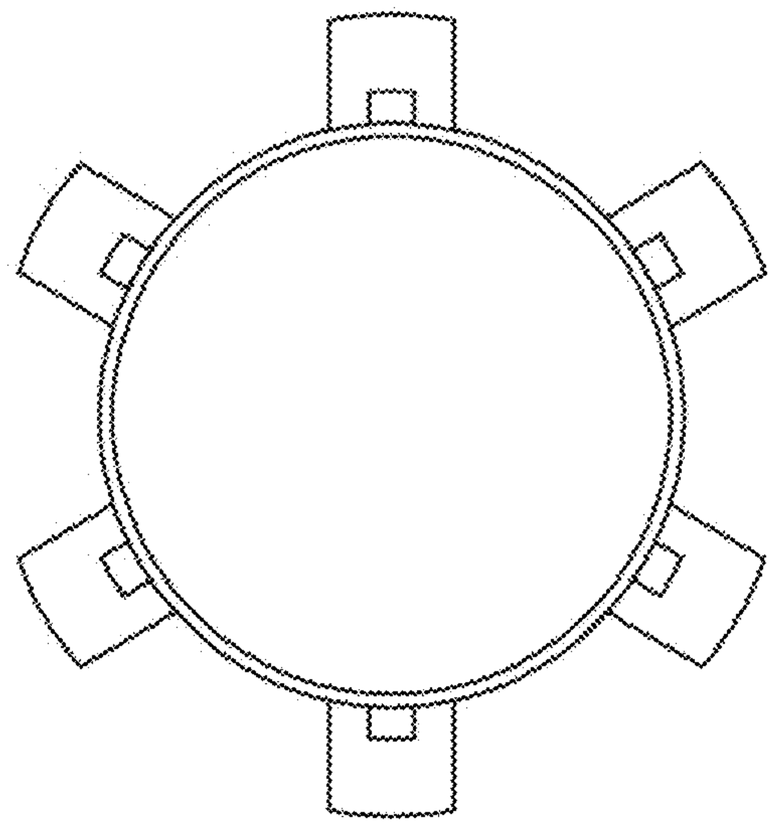

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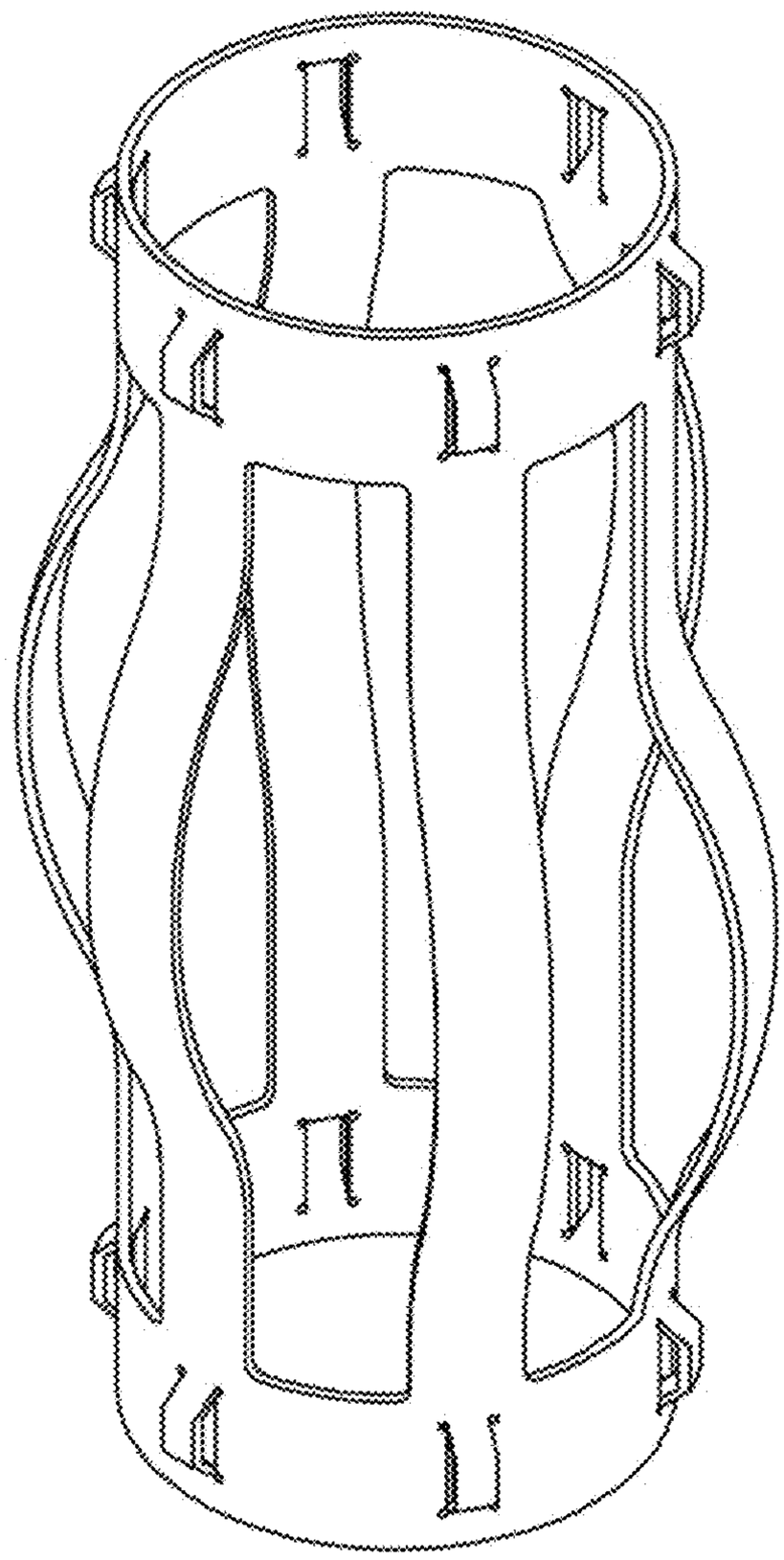

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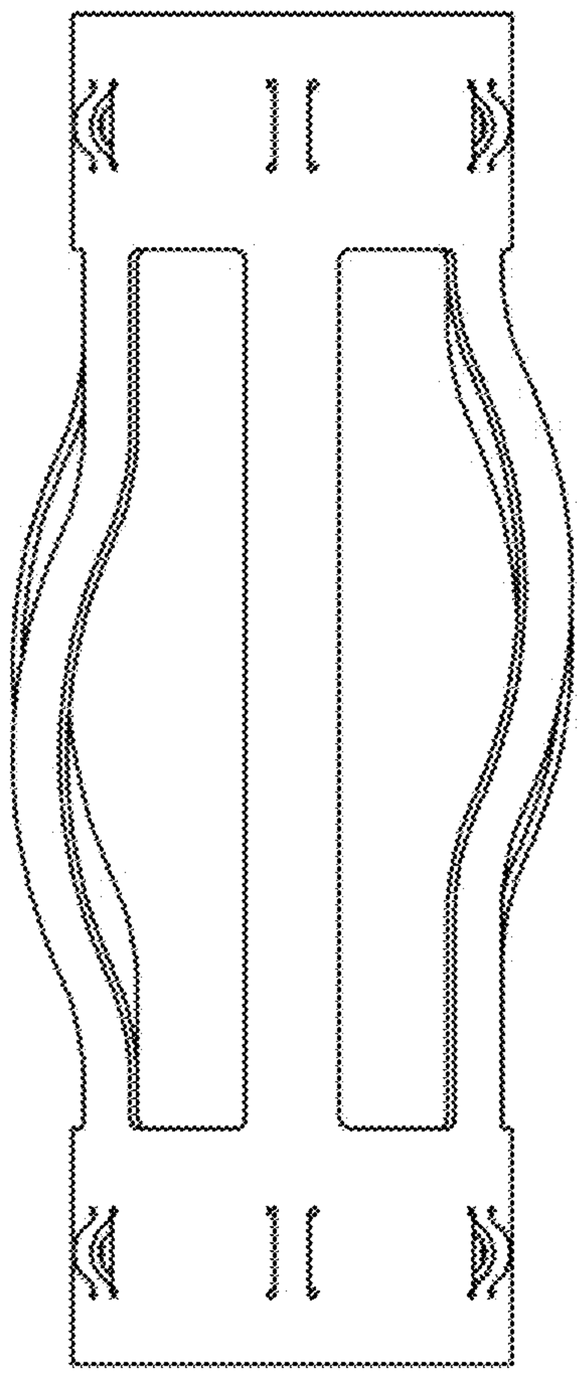

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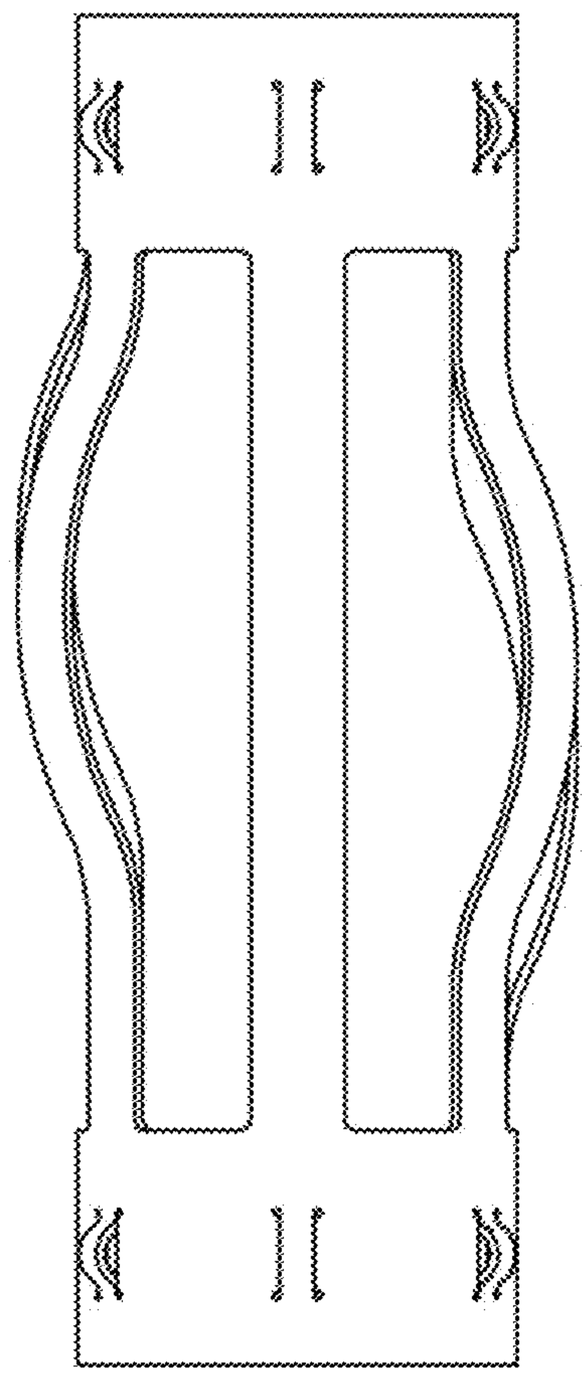

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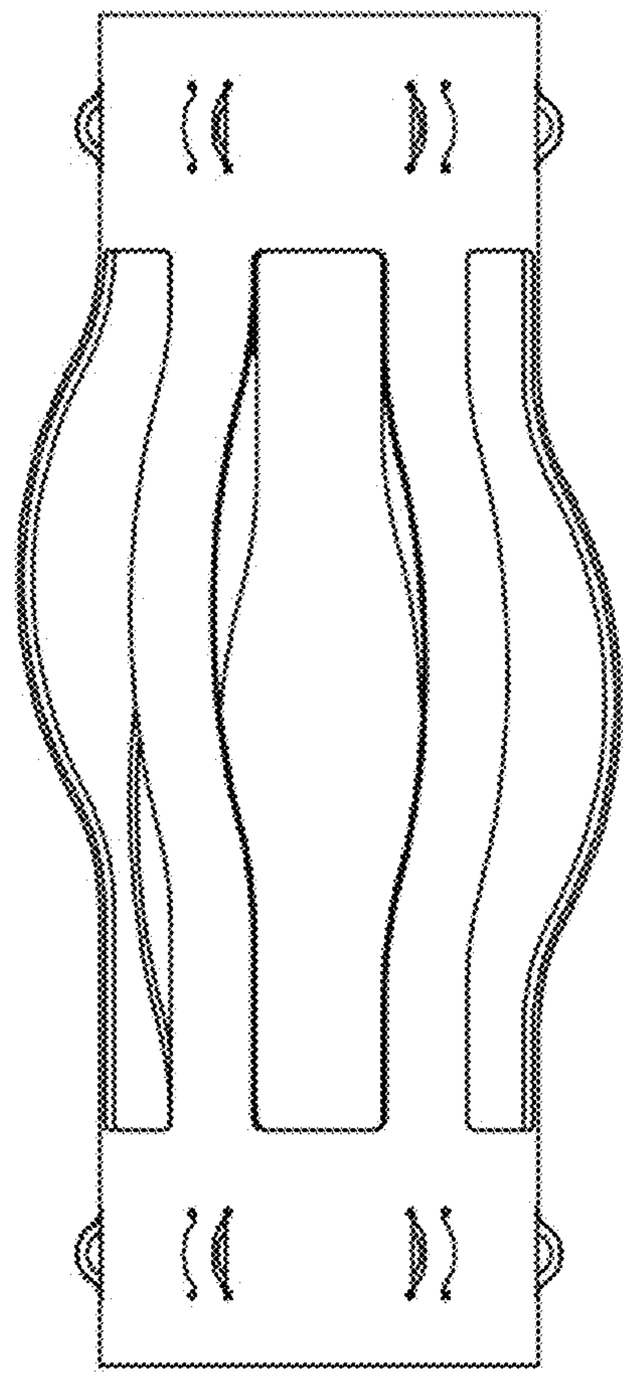

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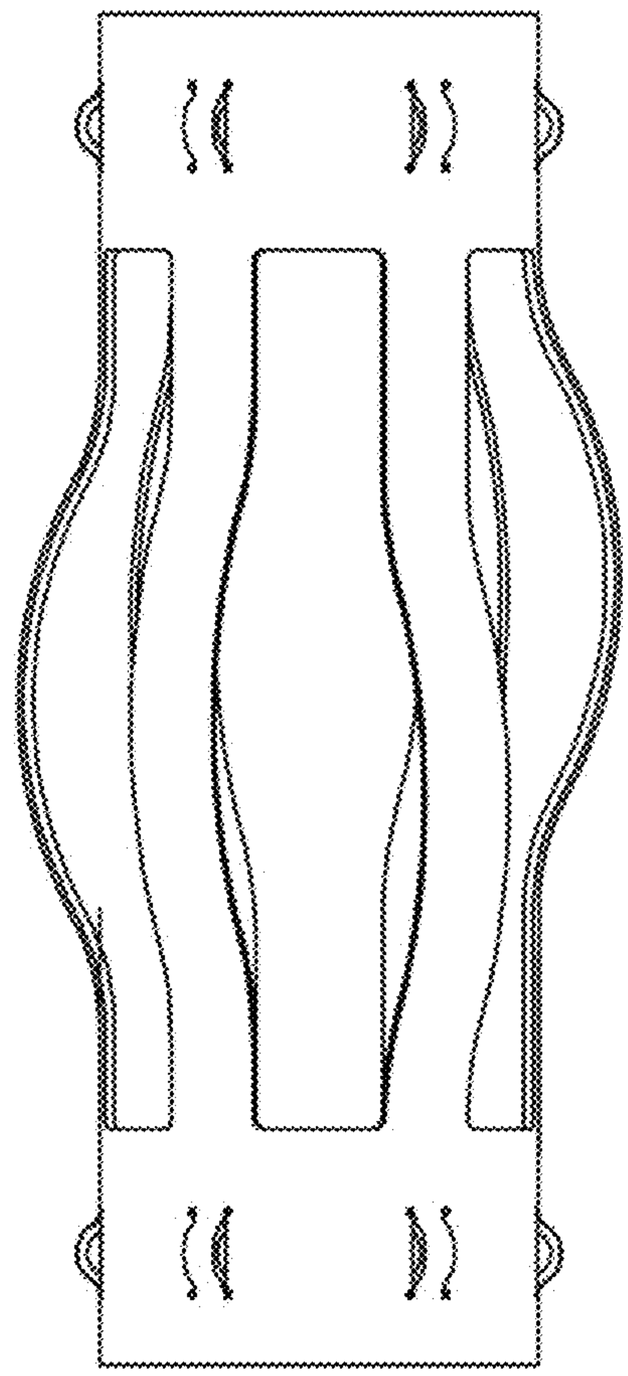

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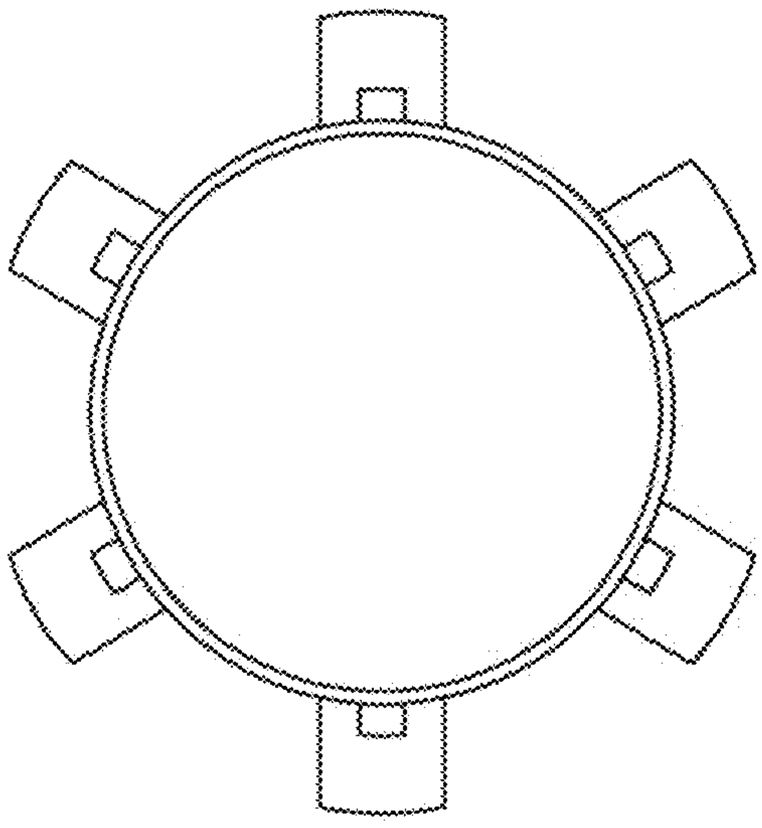

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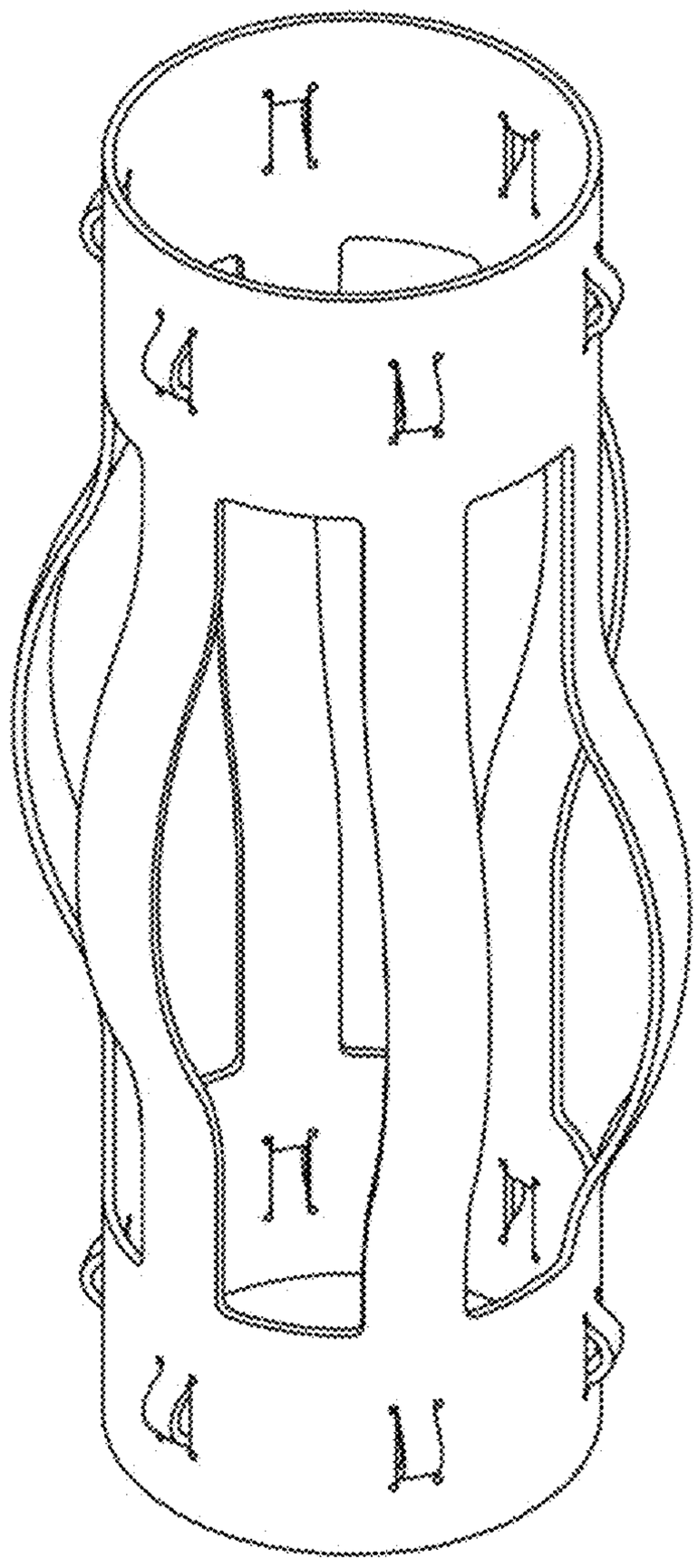

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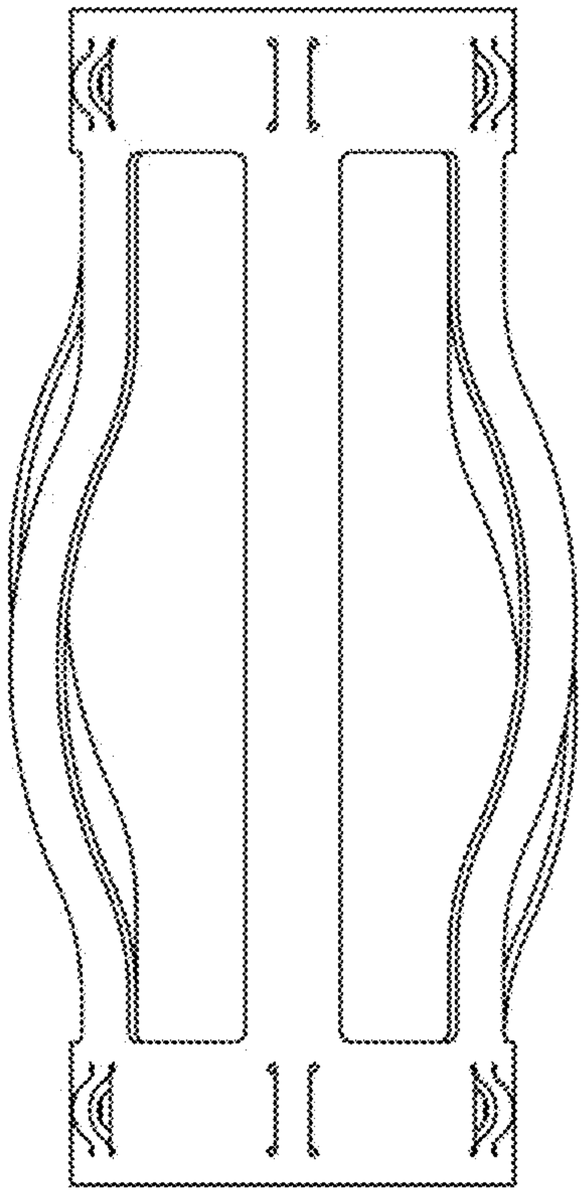

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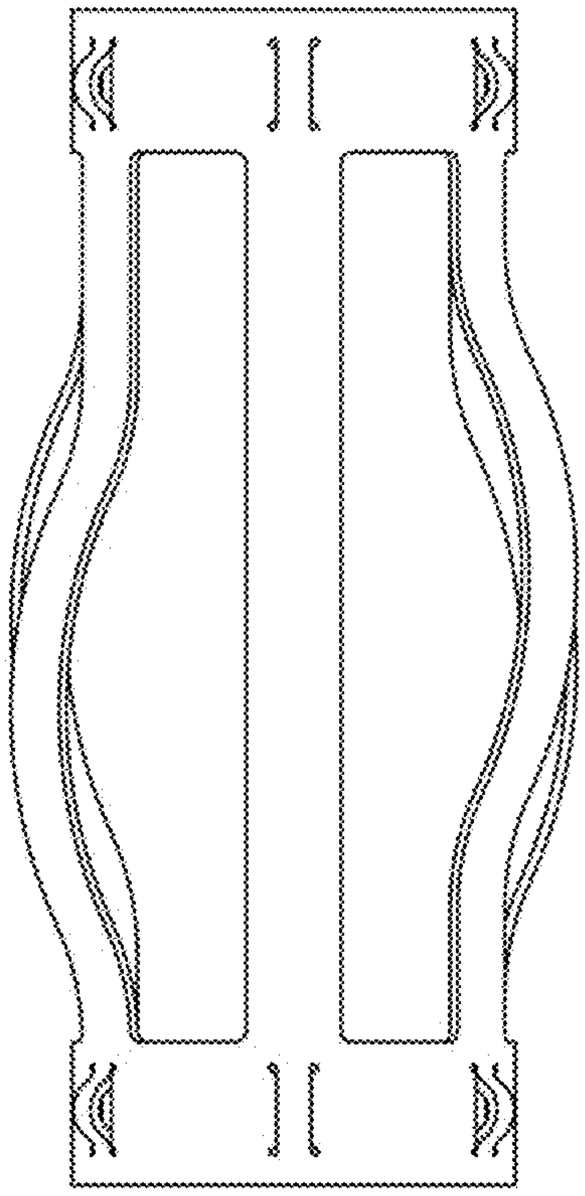

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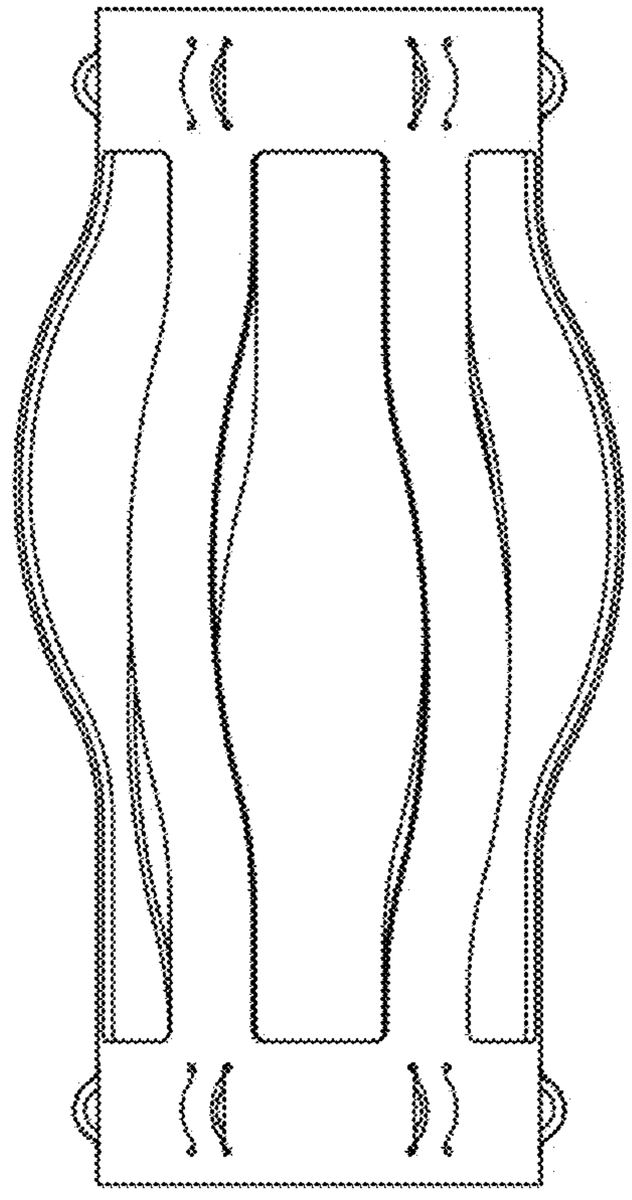

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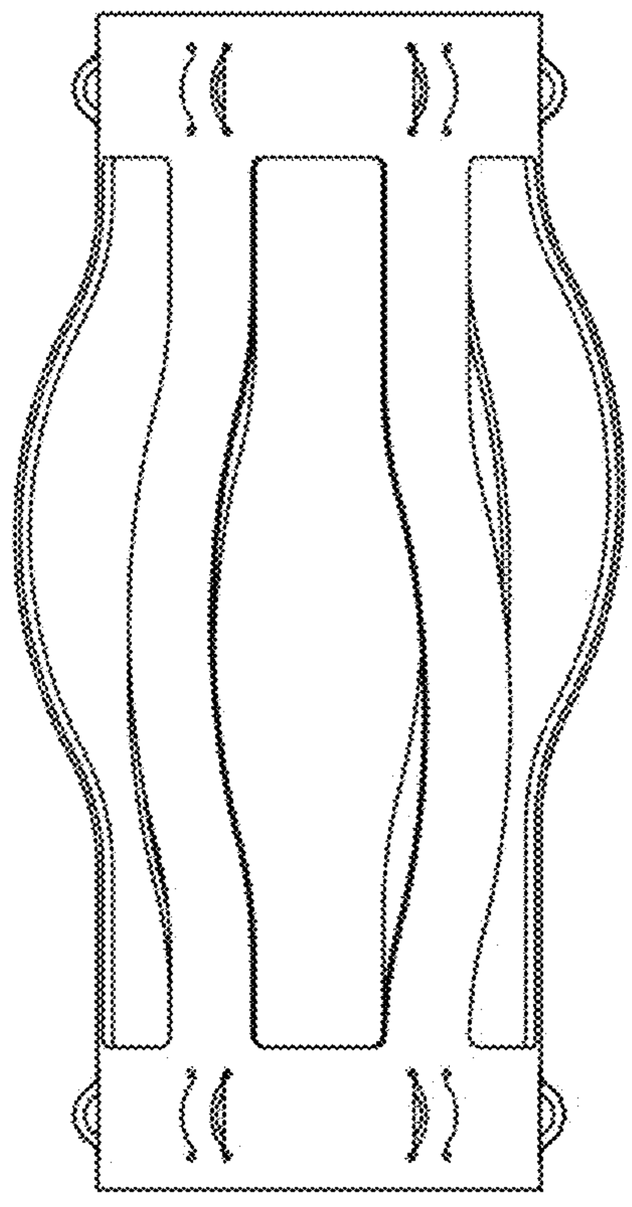

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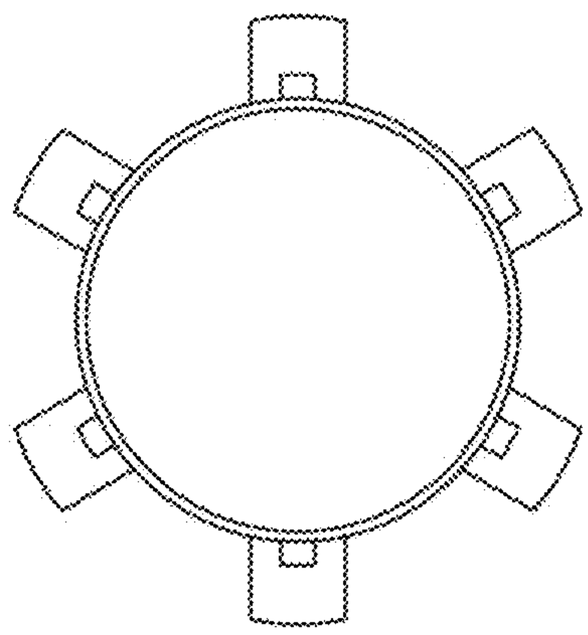

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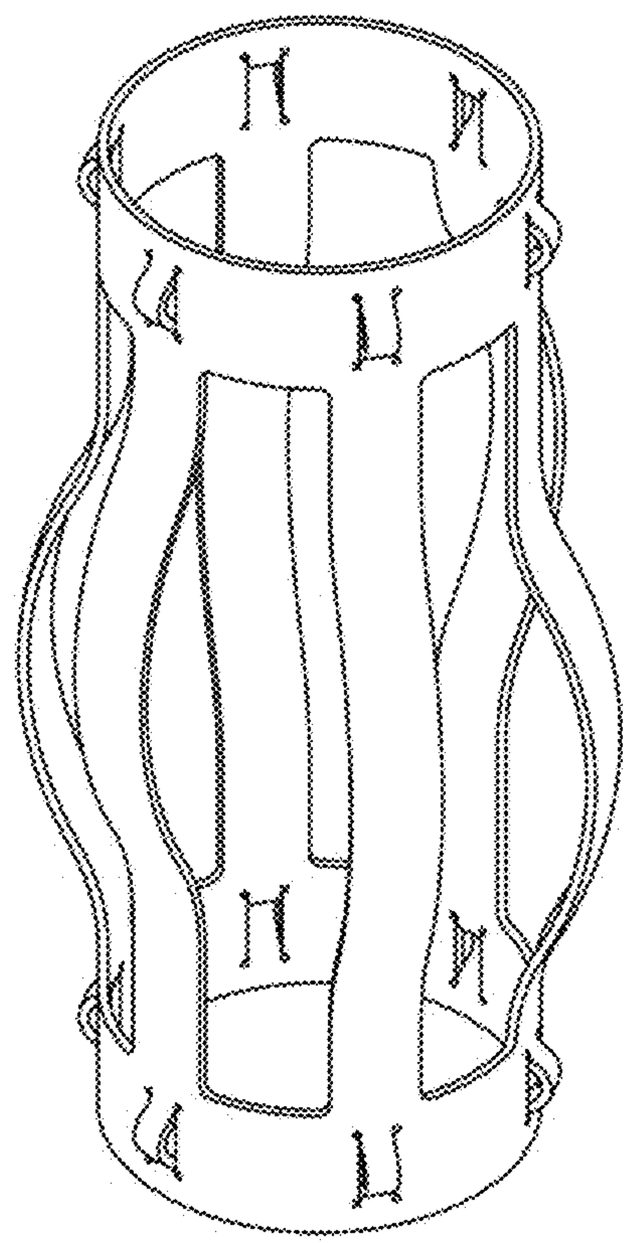
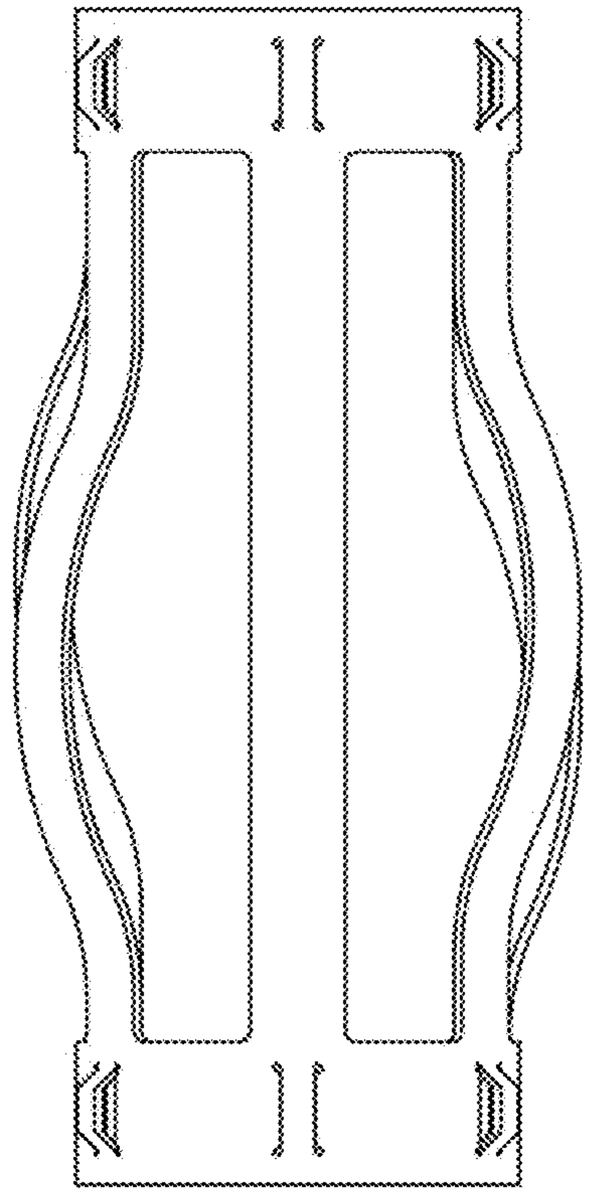


Figure 66



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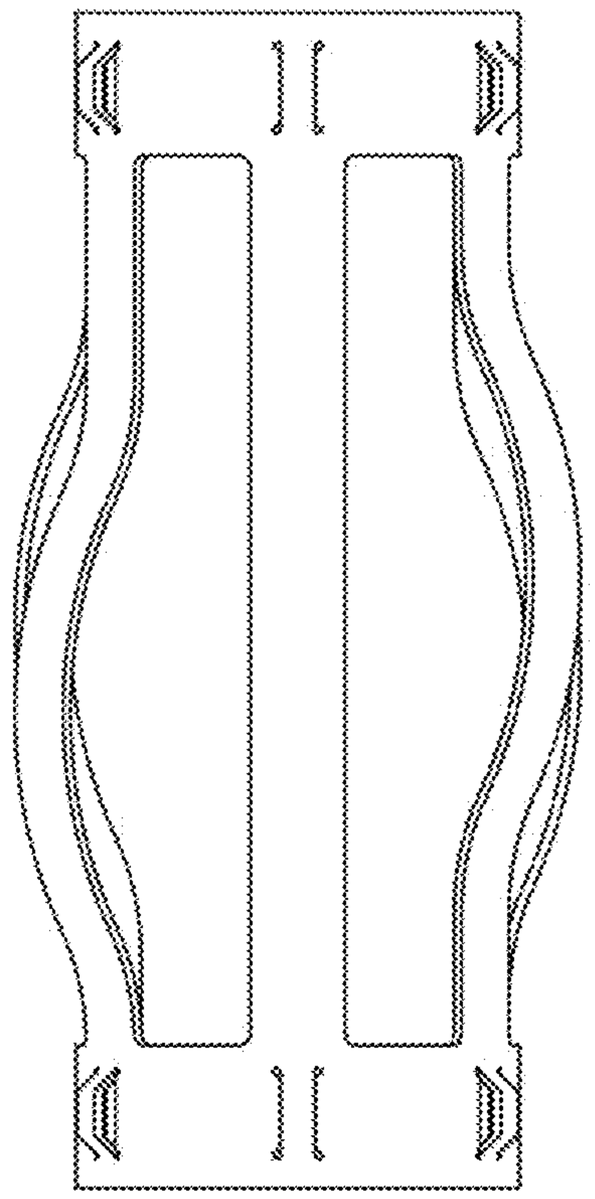

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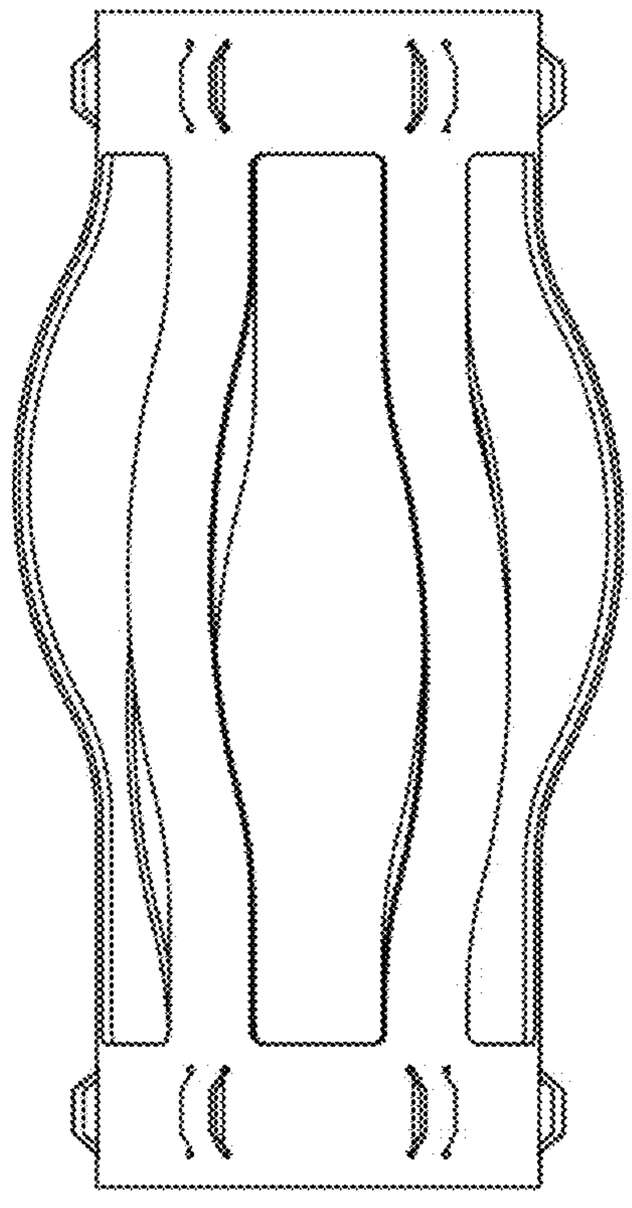

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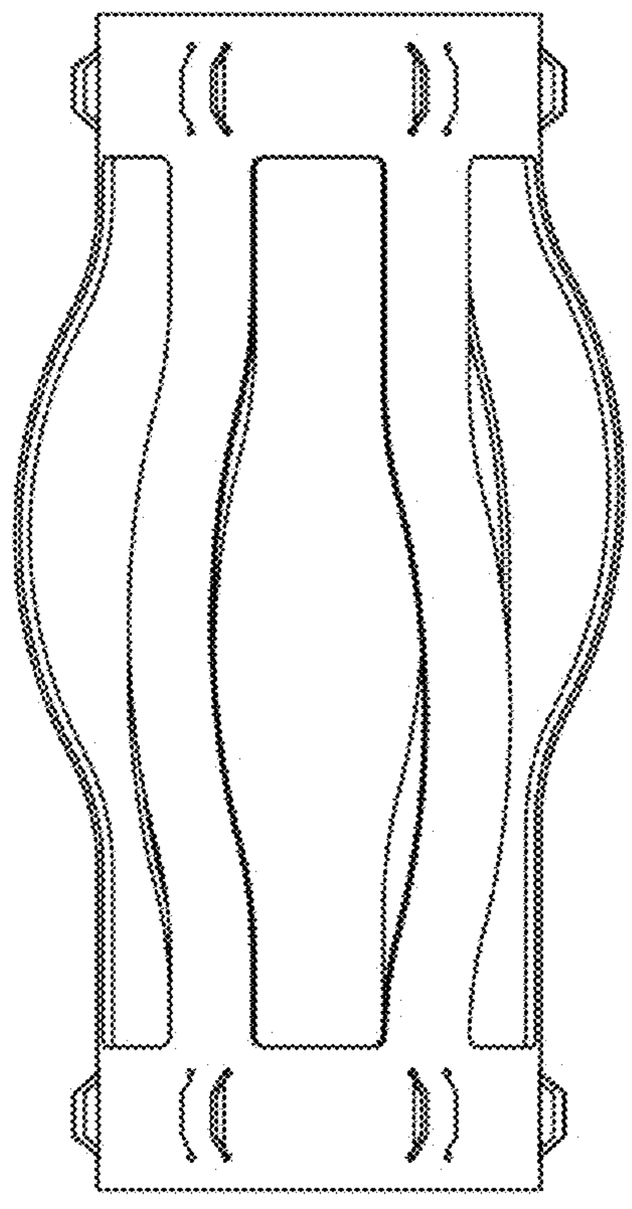

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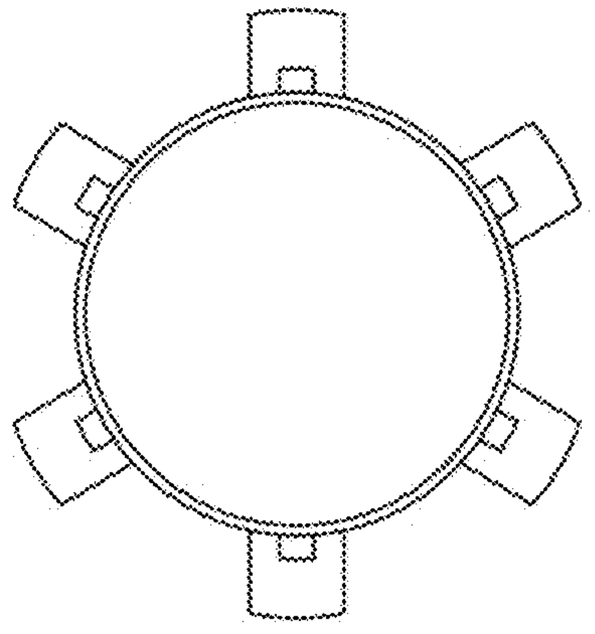

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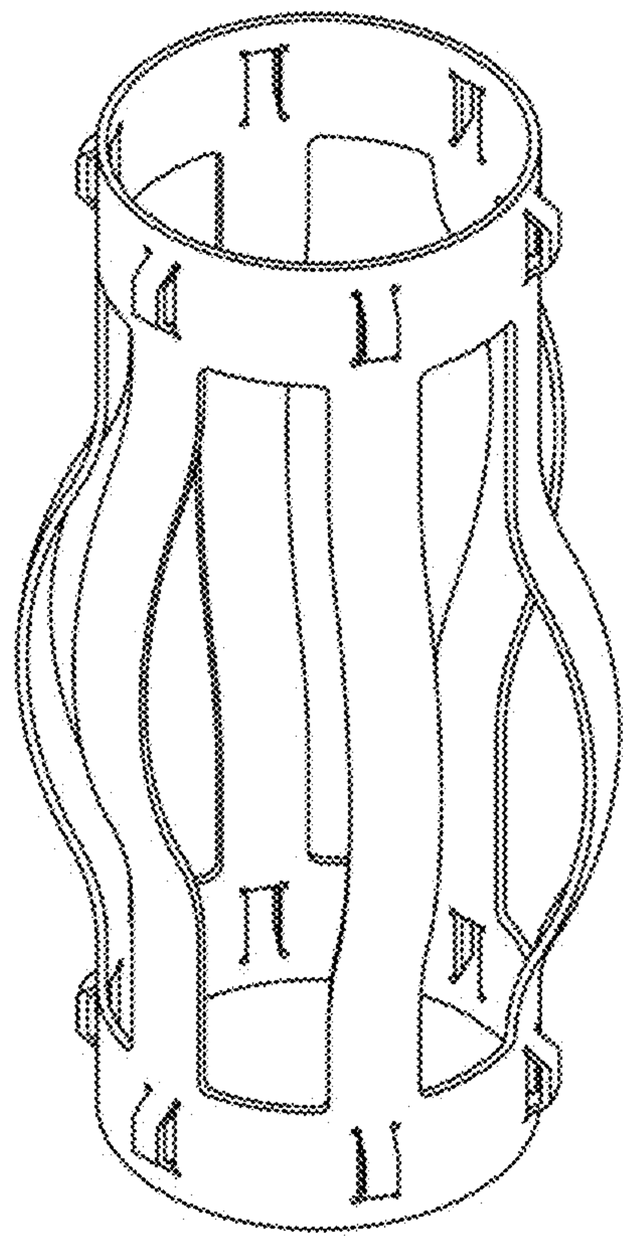

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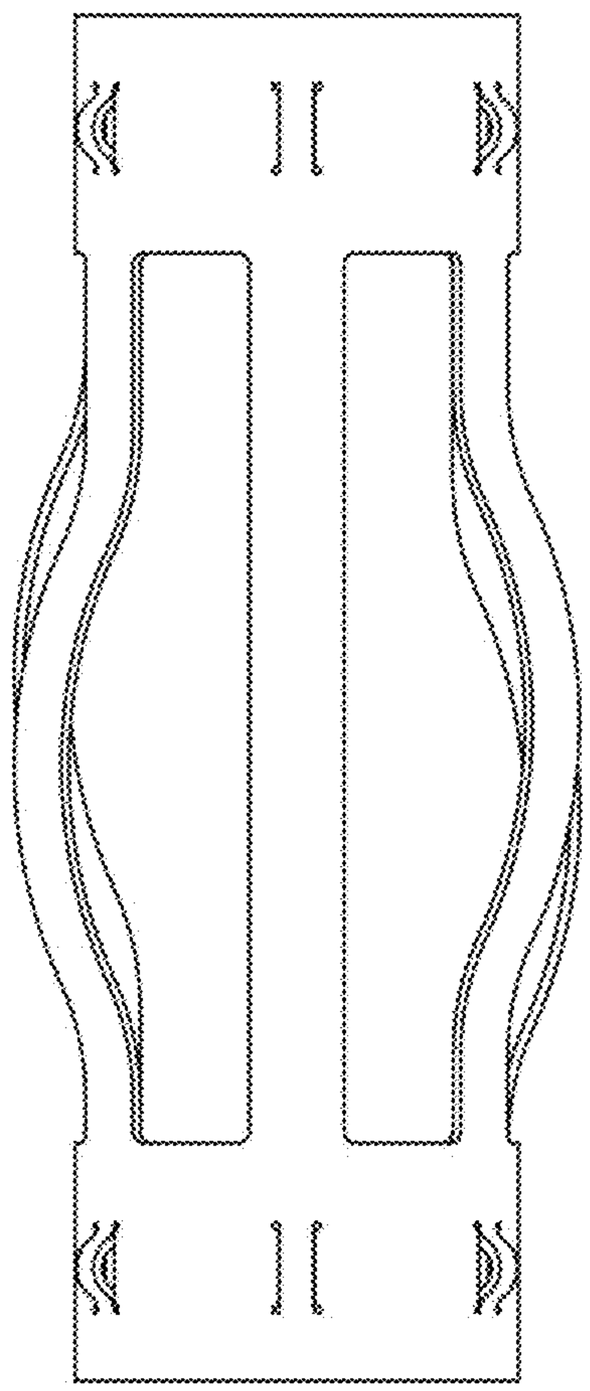

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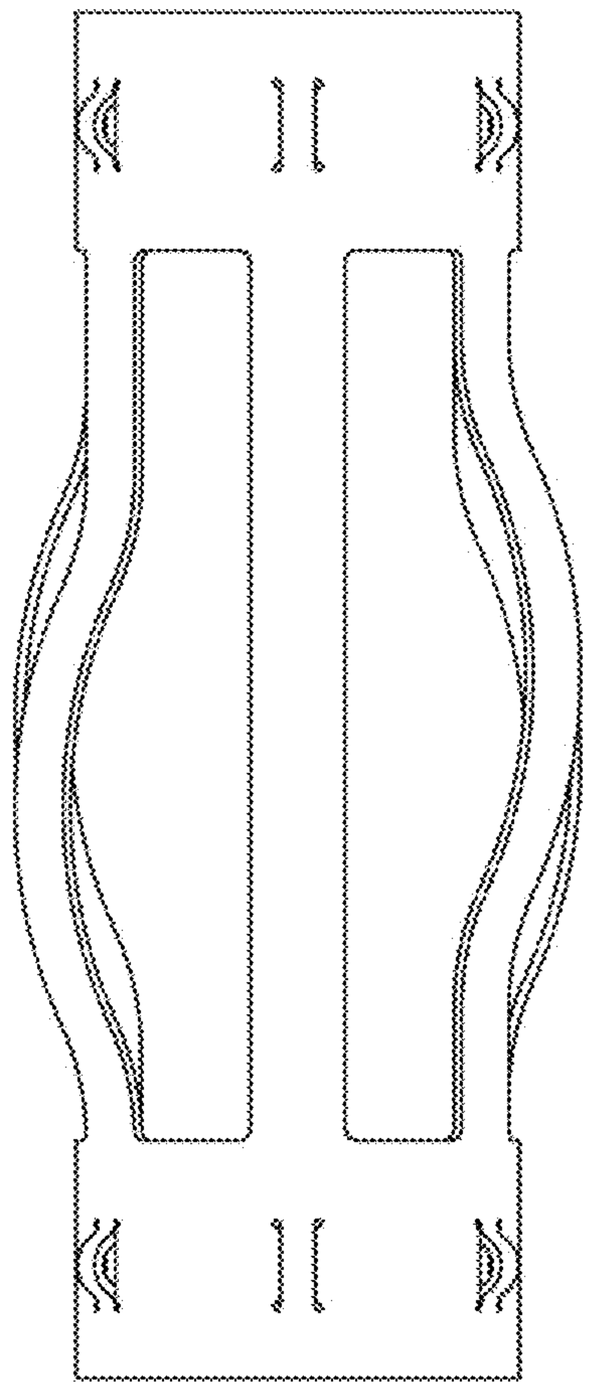

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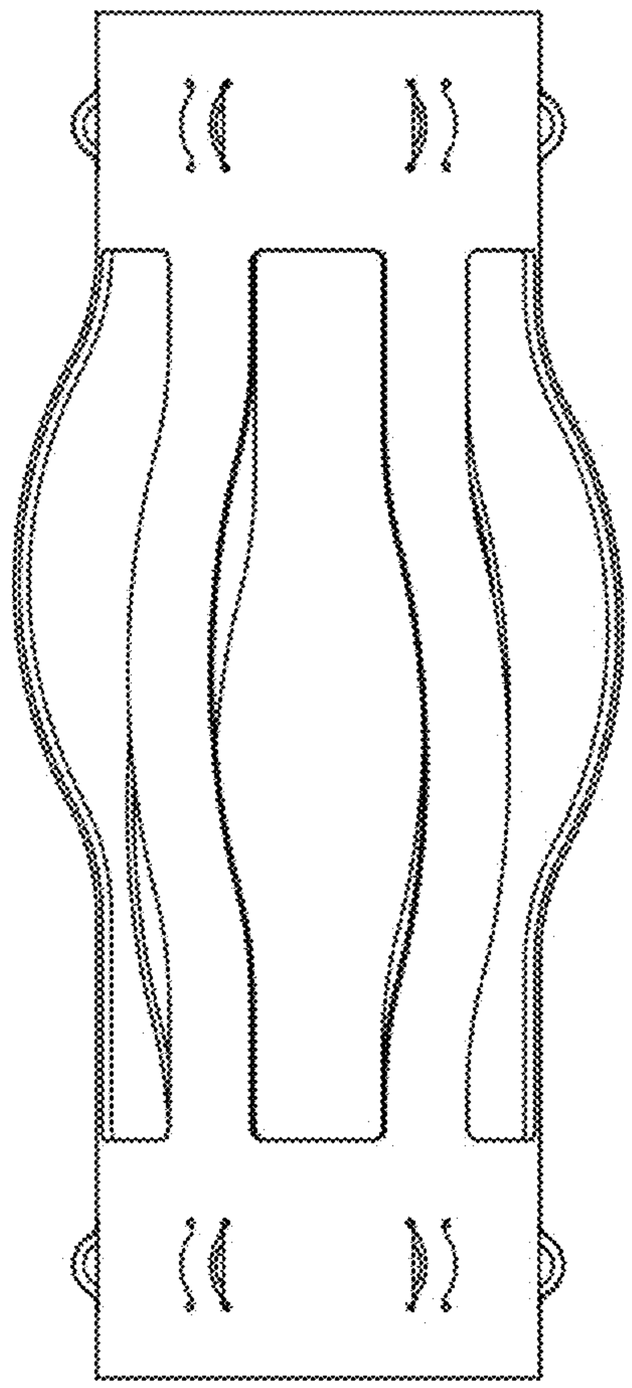

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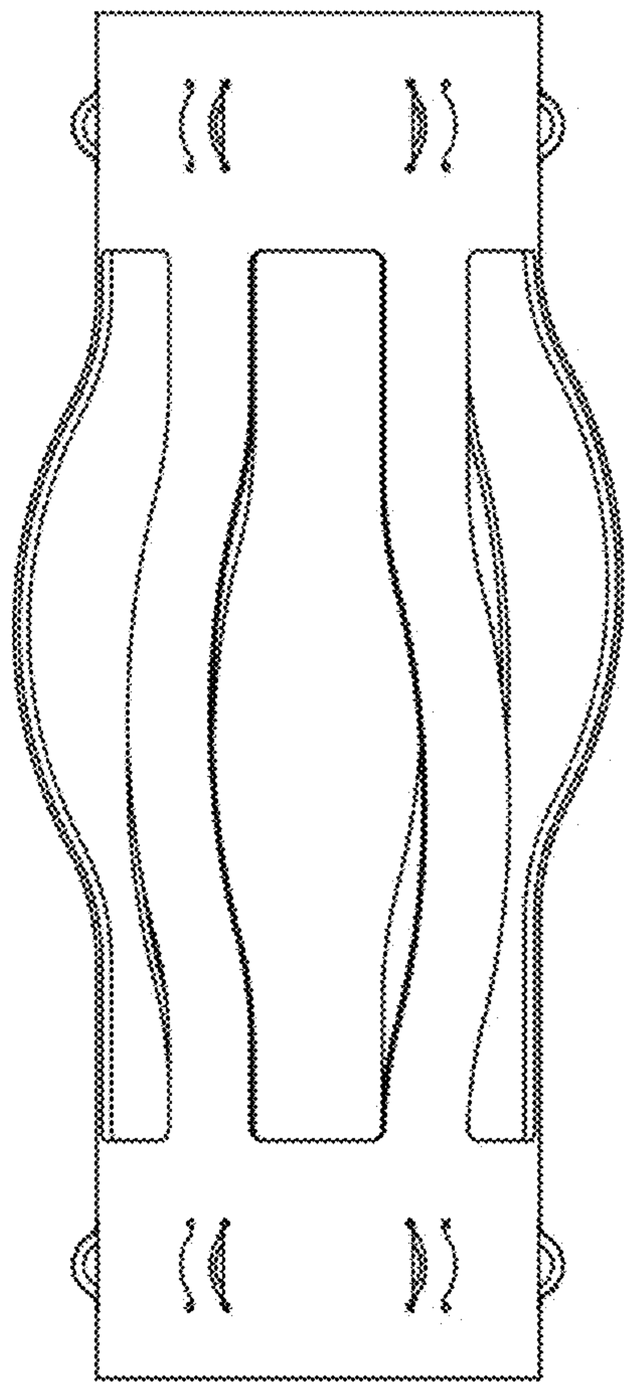

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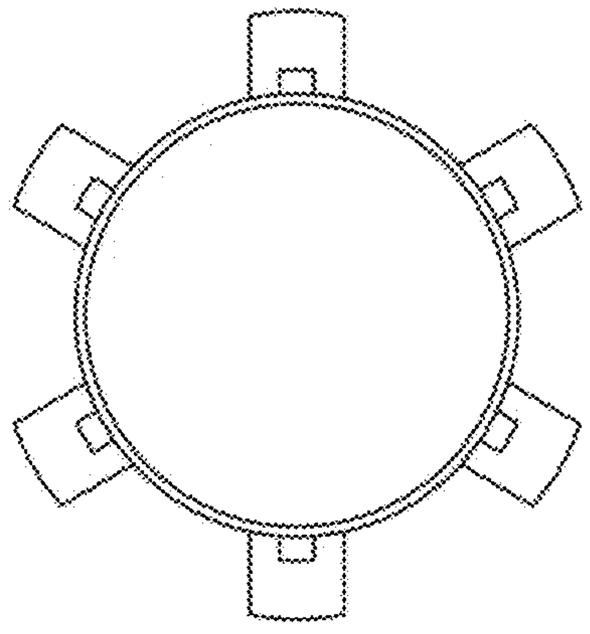

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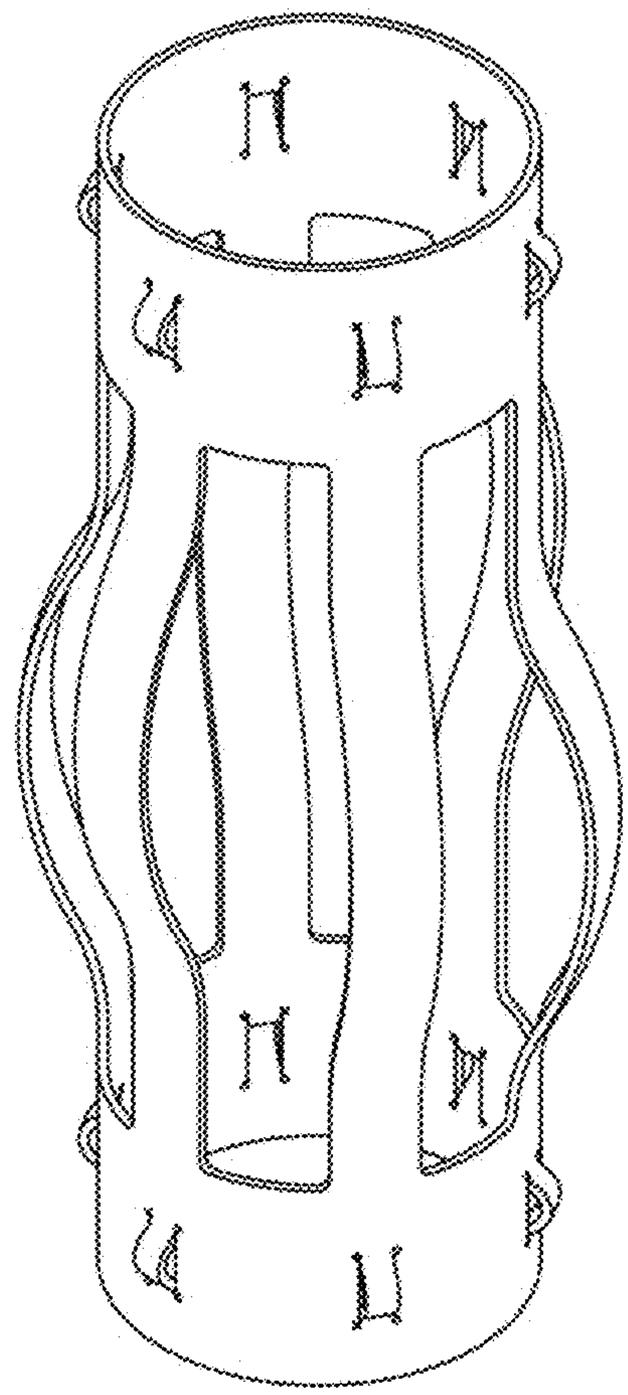

Figure 78