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

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(45) **Date of Patent:** **** Aug. 28, 2001**

(54) **STATOR OF AC GENERATOR FOR VEHICLES**

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(73) Assignee: **Mitsubishi Denki Kabushiki Kaisha**, Tokyo (JP)

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

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(30) **Foreign Application Priority Data**

Dec. 14, 1999 (JP) 11-34427

(51) **LOC (7) Cl.** **13-01**

(52) **U.S. Cl.** **D13/122**

(58) **Field of Search** D13/118, 122;
310/52, 179, 180, 201, 254-260

(56) **References Cited**

U.S. PATENT DOCUMENTS

D. 425,857 * 5/2000 Umeda et al. D13/118
D. 426,191 * 6/2000 Umeda et al. D13/122
3,453,468 * 7/1969 Lund 310/180
4,741,098 * 5/1988 Barrera 29/736
5,640,062 * 6/1997 Yockey 310/68 D
5,998,903 * 12/1999 Umeda et al. 310/179
6,049,154 * 4/2000 Asao et al. 310/201
6,051,906 * 4/2000 Umeda et al. 310/179

FOREIGN PATENT DOCUMENTS

09103052A * 4/1997 (JP) H02K/15/02

1041849 6/1999 (JP) .
1041849-1 6/1999 (JP) .
1041849-2 6/1999 (JP) .
1041849-3 2/2000 (JP) .

OTHER PUBLICATIONS

Mitsubishi '93 Automotive Electrical Equipments Parts Catalog (Alternator) (Starting Motor), Feb. 1993.

* cited by examiner

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(57) **CLAIM**

The ornamental design for a stator of AC generator for vehicles, as shown and described.

DESCRIPTION

FIG. 1 is a front, and top side perspective view of a stator of AC generator for vehicles showing our new design;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a top plan view thereof;

FIG. 4 is a rear elevational view thereof;

FIG. 5 is a bottom plan view thereof;

FIG. 6 is a right side elevational view thereof;

FIG. 7 is a left side elevational view thereof; and,

FIG. 8 is a front, and top side reference perspective view showing a part of the armature coils of the stator.

The broken line showing in FIG. 8 is included for the purpose of indicating a continuous array of the single armature coil part as shown in FIG. 1.

1 Claim, 5 Drawing Sheets

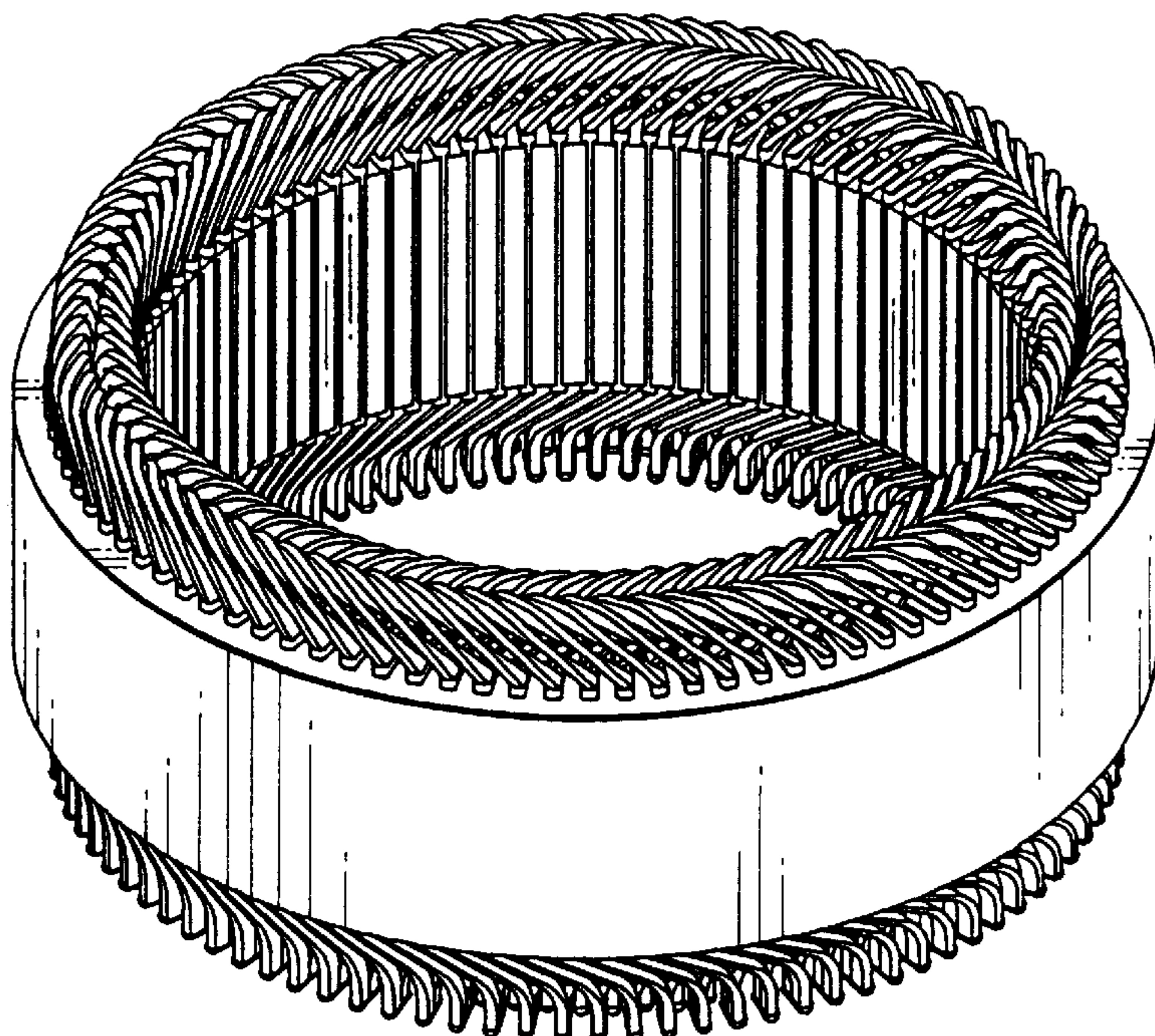


FIG. 1

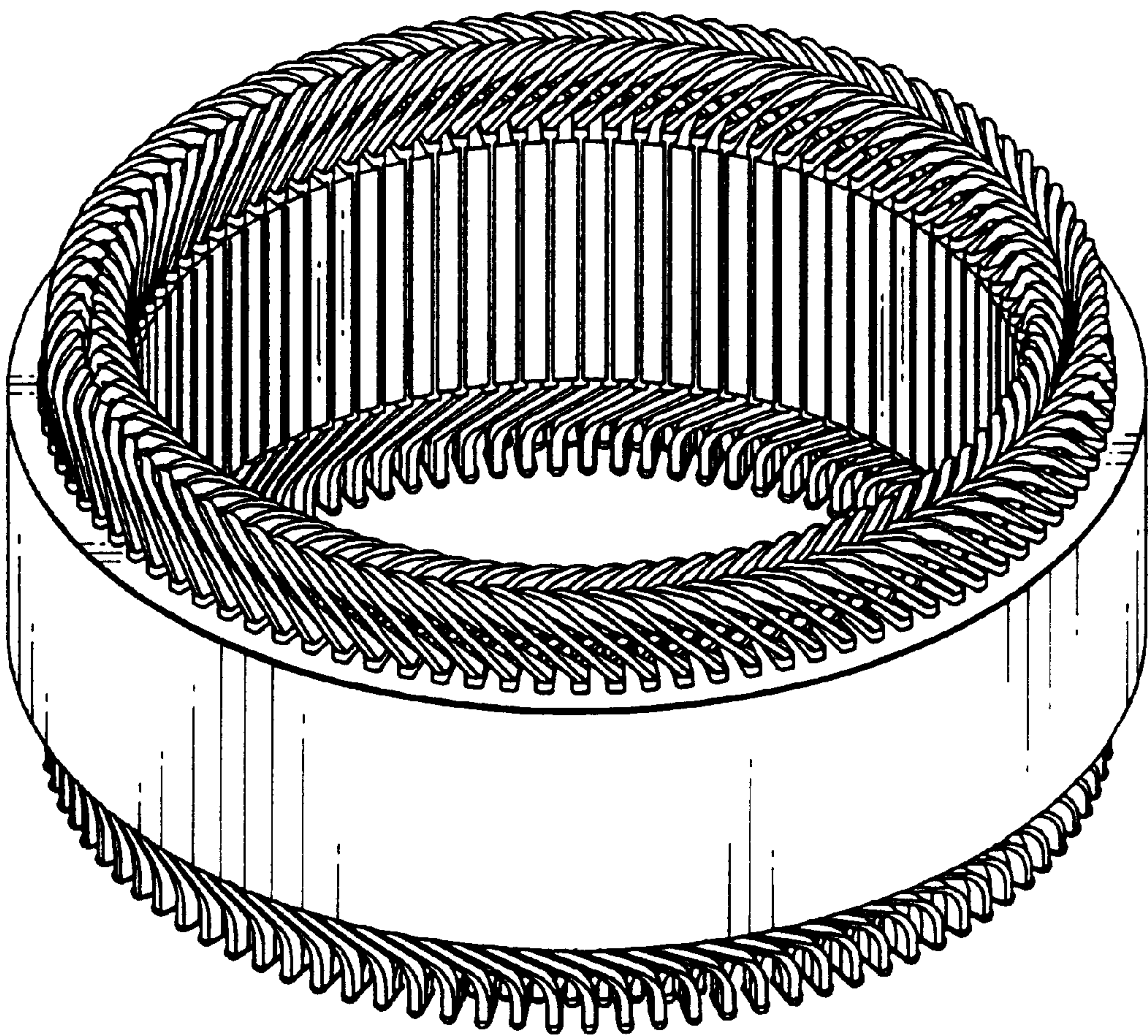


FIG.2

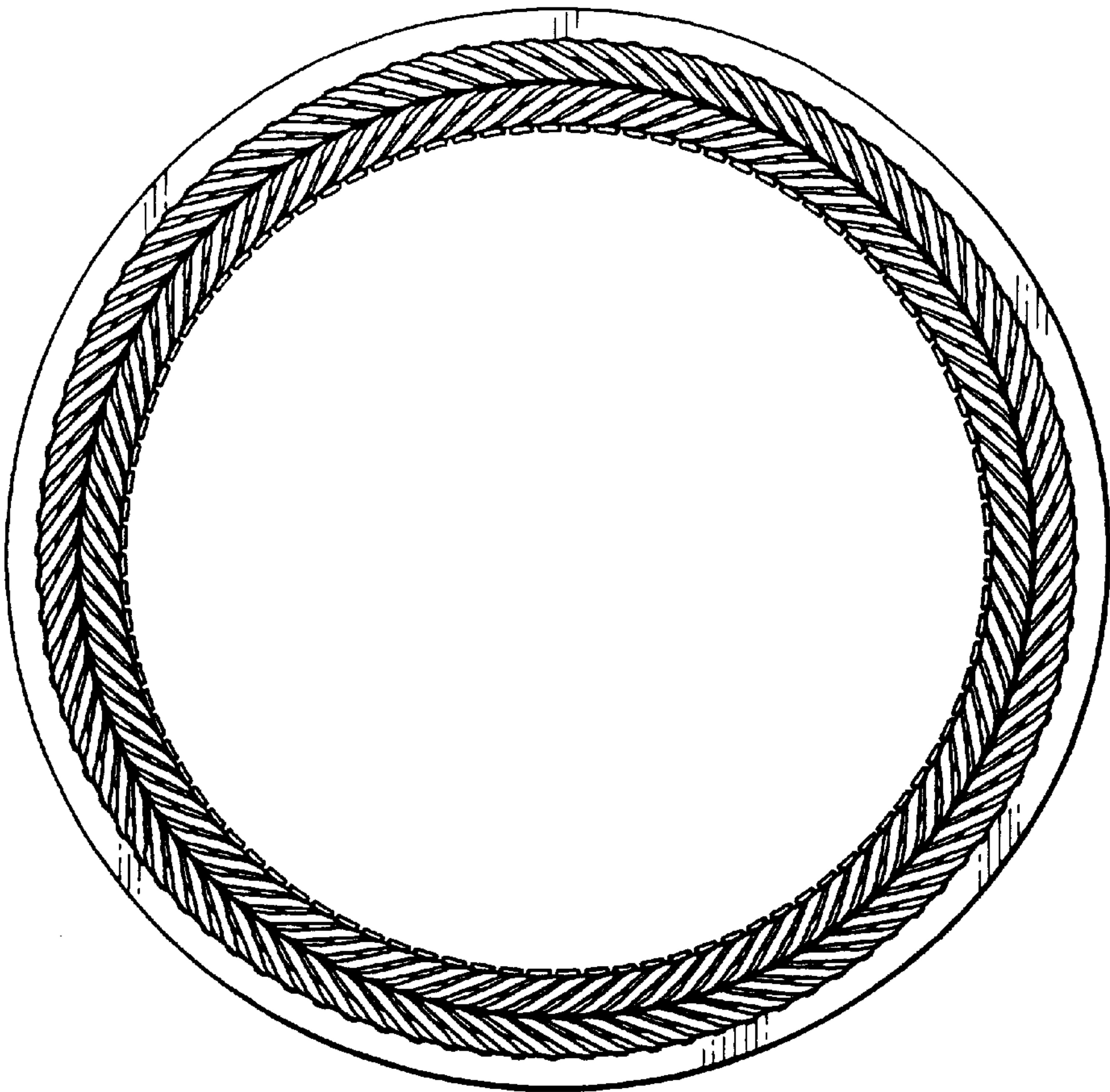


FIG.3

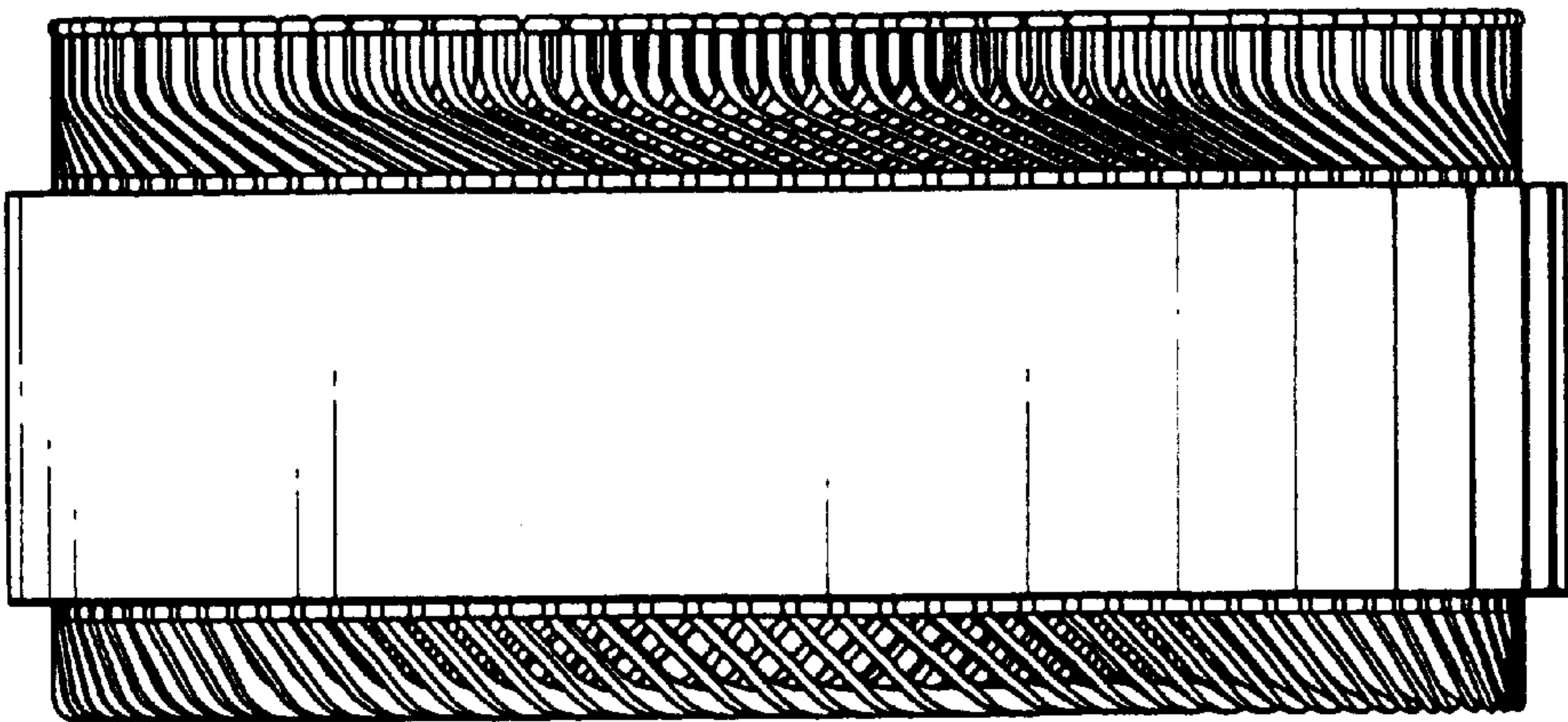


FIG.4

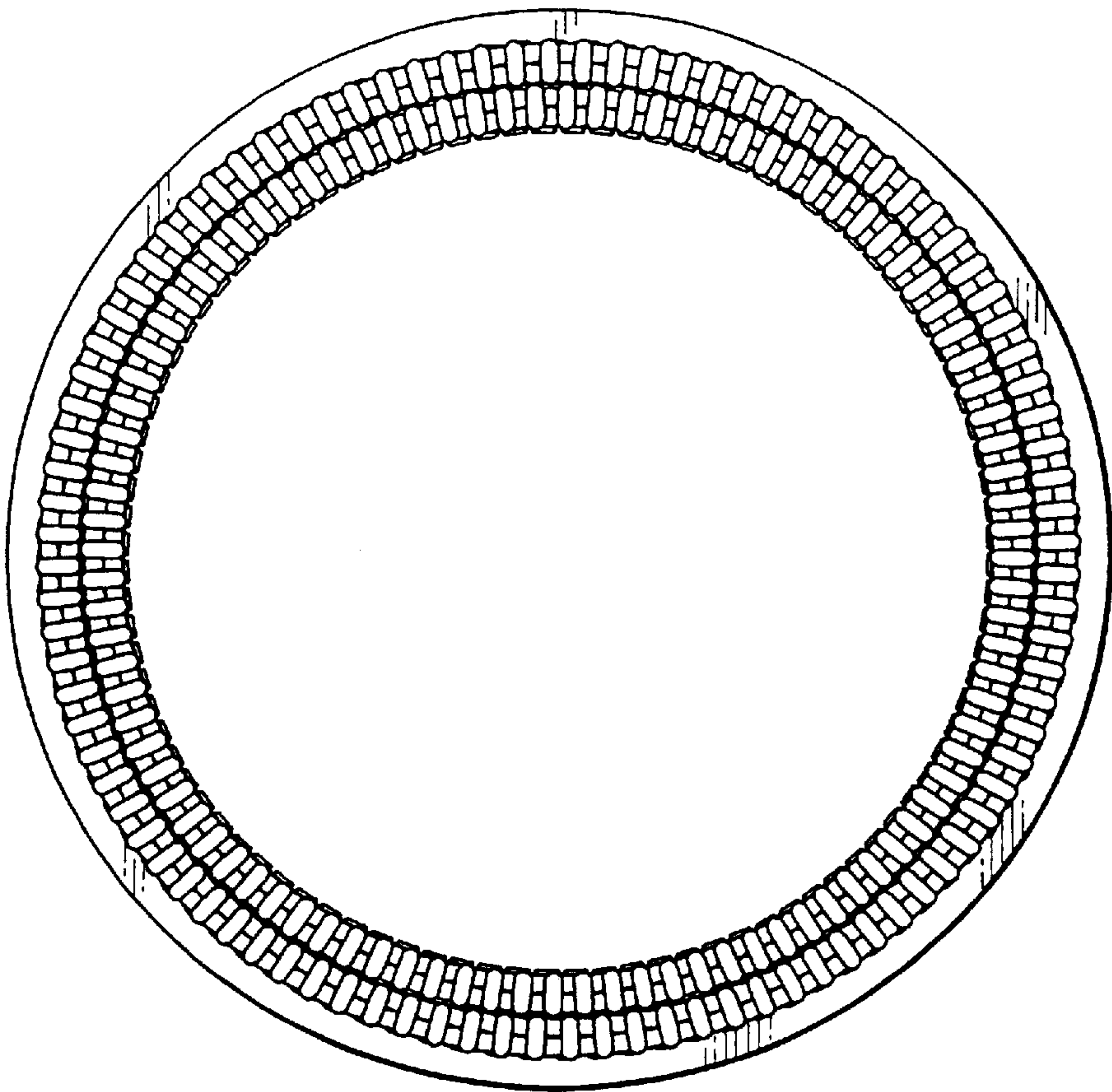


FIG.5

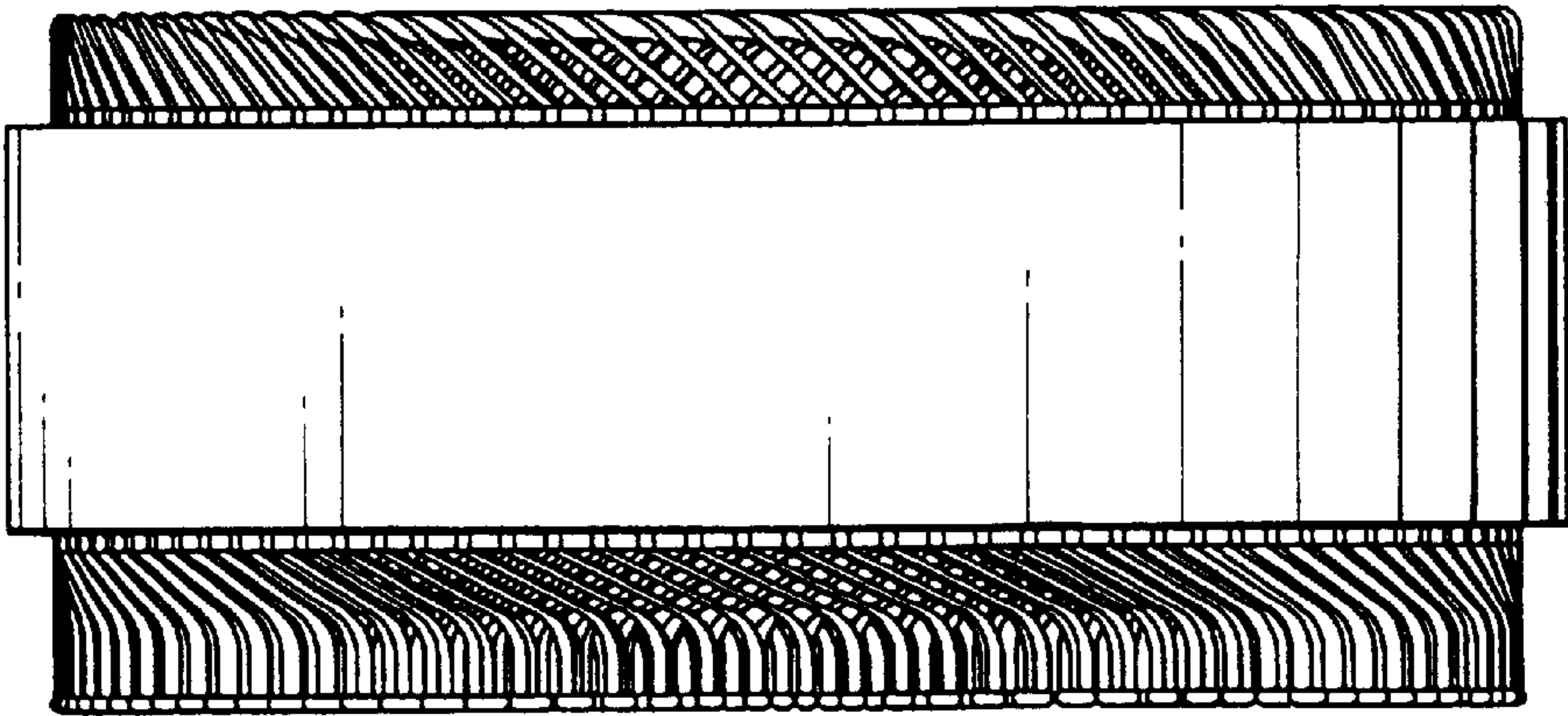


FIG.6

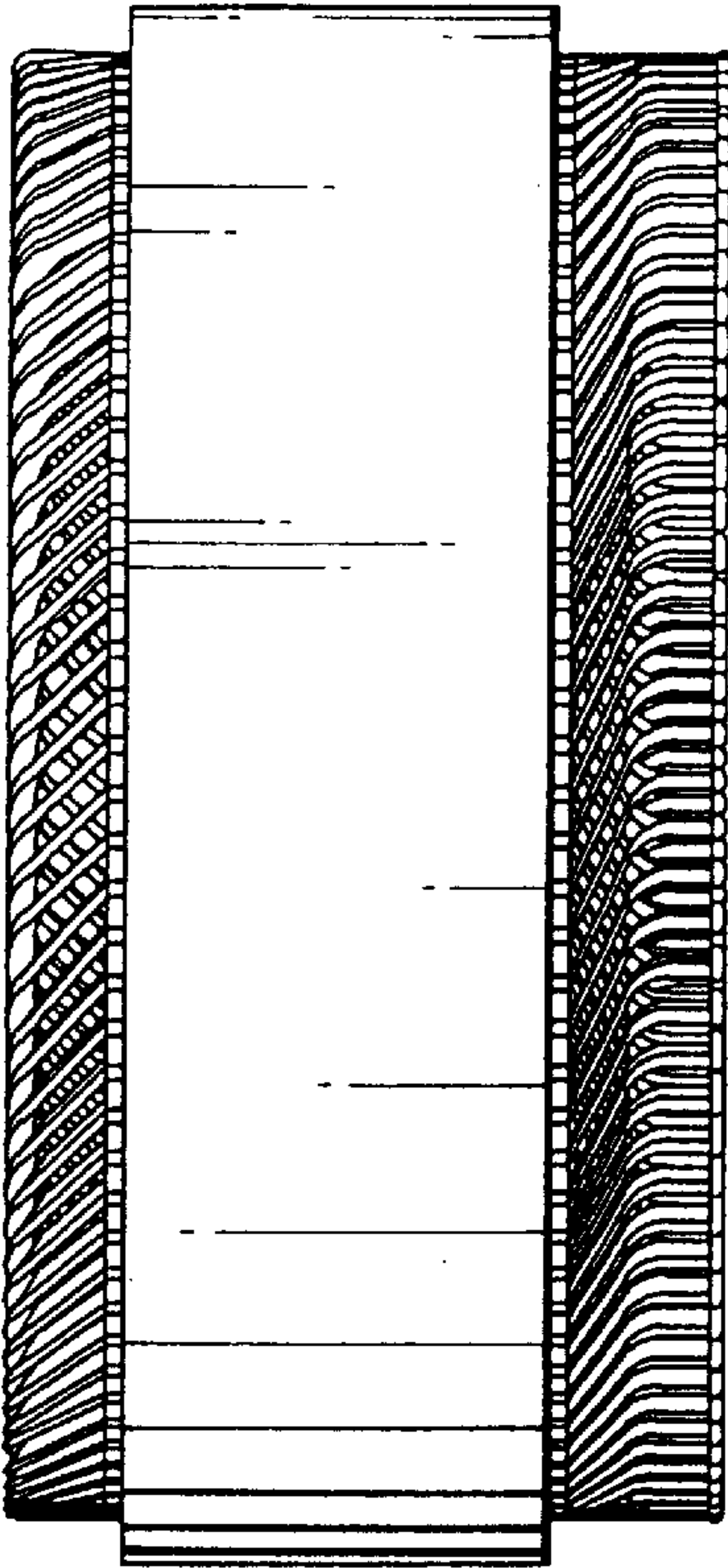


FIG.7

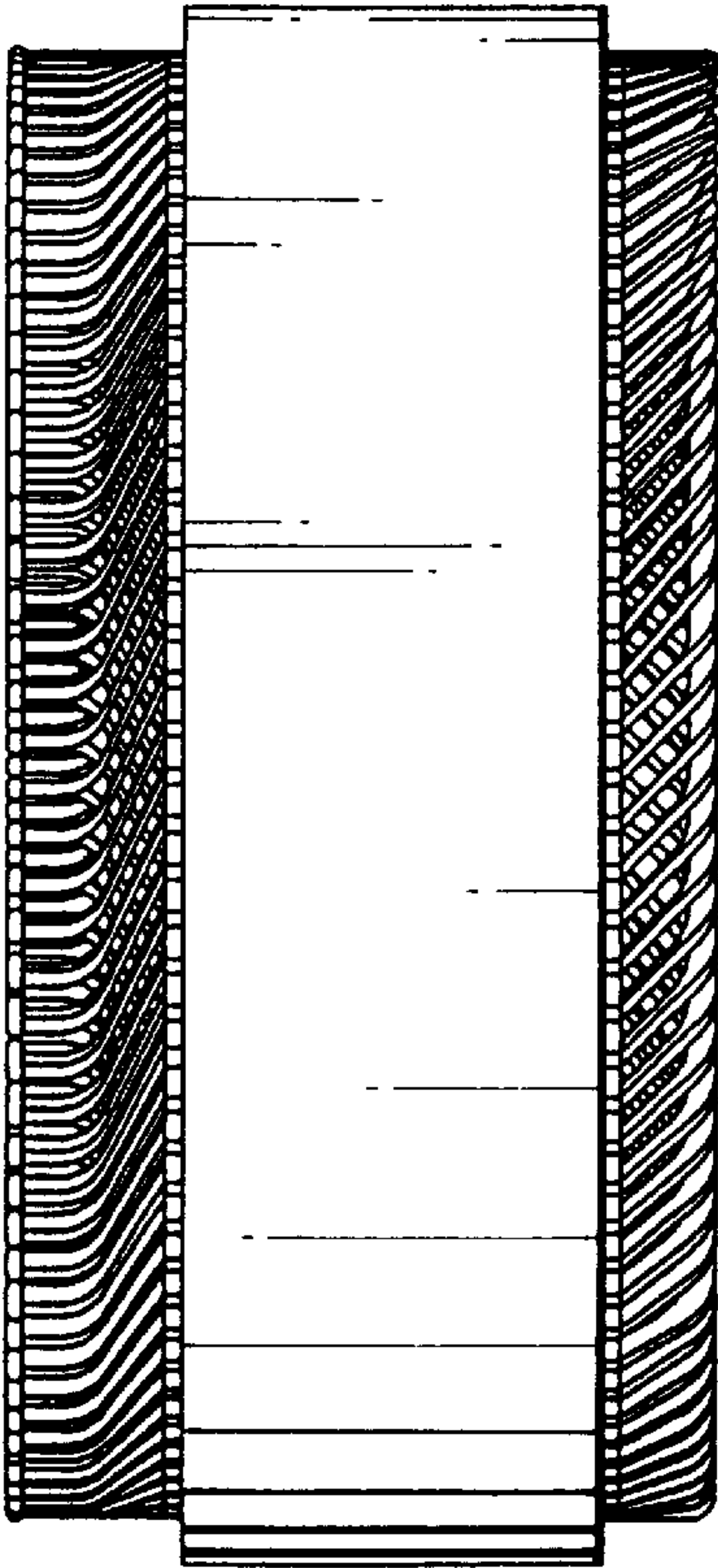


FIG.8

