US00D690748S

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

(10) **Patent No.: US D690,748 S**
(45) **Date of Patent: ** Oct. 1, 2013**

(54) **BEARING CAGE**

(71) Applicant: **Baldor Electric Company**, Fort Smith, AR (US)

(72) Inventor: **Christopher E. Hosmer**, Greer, SC (US)

(73) Assignee: **Baidor Electric Company**, Fort Smith, AK (US)

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

(21) Appl. No.: **29/451,043**

(22) Filed: **Mar. 27, 2013**

Related U.S. Application Data

(63) Continuation of application No. 12/632,434, filed on Dec. 7, 2009, now Pat. No. 8,408,808.

(51) **LOC (9) Cl.** **15-09**

(52) **U.S. Cl.**
USPC **D15/143**; D15/123

(58) **Field of Classification Search**
USPC D15/123, 143, 199; 29/481; 277/419; 360/265.2; 384/222, 258, 273, 274, 295, 384/300, 412, 428, 470, 523, 526, 531, 532, 384/537, 588, 623
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,240,677 A * 12/1980 Payne et al. 384/252
4,302,901 A * 12/1981 Psyras 446/46

(Continued)

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(74) *Attorney, Agent, or Firm* — Thompson Coburn LLP

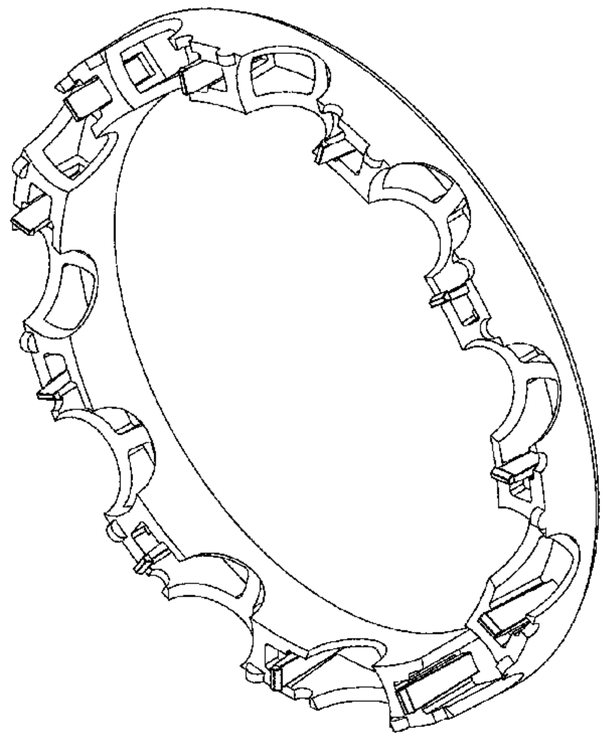
(57) **CLAIM**

The ornamental design of the bearing cage, as shown and described.

DESCRIPTION

FIG. **1** is a first perspective view of one embodiment of a retainer of the bearing cage showing my new design, two of which may be snapped together to form a bearing cage as shown in FIGS. **12-17**;
FIG. **2** is a second perspective view of the retainer of FIG. **1**;
FIG. **3** is a third perspective view of the retainer of FIG. **1**;
FIG. **4** is a top view of the retainer of FIG. **1** with latches and socket portions of the retainer in view;
FIG. **5** is a bottom view (i.e., a view opposite that of FIG. **4**) of the retainer portion of FIG. **1** with annular inner and outer side edges of the retainer portion in view;
FIG. **6** is a left side view of the retainer portion of FIG. **1** (a right side view is not shown being a mirror image of the view of FIG. **6**);
FIG. **7** is a front view of the retainer portion of FIG. **1** (a rear view is not shown being a mirror image of view of FIG. **7**);
FIG. **8** is an enlarged sectional view of a latch and a socket portion of the retainer portion of FIG. **1** taken from detail area **8-8** of FIG. **4**;
FIG. **9** is a side cross-sectional view of the retainer portion of FIG. **1** taken along lines **9-9** of FIG. **4**;
FIG. **10** is an enlarged cross-sectional view of a latch and a spoke from detail area **10-10** of FIG. **9**;
FIG. **11** is an enlarged cross-sectional view of a latch and socket taken along lines **11-11** of FIG. **4**;
FIG. **12** shows two like retainer portions brought into register to form the bearing cage of my new design;
FIG. **13** is a plan view of the cage of FIG. **12** with two retainer portions as shown in FIG. **1** assembled together (the view from the opposite side being identical;
FIG. **14** is an enlarged cross-sectional view of engaged retainer portions taken along lines **14-14** of FIG. **13**;
FIG. **15** is an enlarged cross-sectional view of engaged retainer portions taken along lines **15-15** of FIG. **13**;
FIG. **16** is a left side view of the bearing cage of FIG. **12** (a right side view is not shown being a mirror image of the view of FIG. **16**); and,
FIG. **17** is a front view of the bearing cage of FIG. **12** (a rear view is not shown being a mirror image of view of FIG. **17**).

1 Claim, 10 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

4,571,098	A *	2/1986	Rudnik	384/474
4,772,139	A *	9/1988	Bretton	384/537
5,871,284	A *	2/1999	Nadjafi et al.	384/105
D444,802	S *	7/2001	Dyson et al.	D15/143
7,044,471	B2 *	5/2006	Elliott et al.	277/412
7,954,998	B2 *	6/2011	Saville et al.	384/105
D677,523	S *	3/2013	Blckert et al.	D7/392.1
2003/0117031	A1 *	6/2003	Wang et al.	310/90.5
2004/0130827	A1 *	7/2004	Oveyssi	360/265.2
2008/0285906	A1 *	11/2008	Georgi et al.	384/618

* cited by examiner

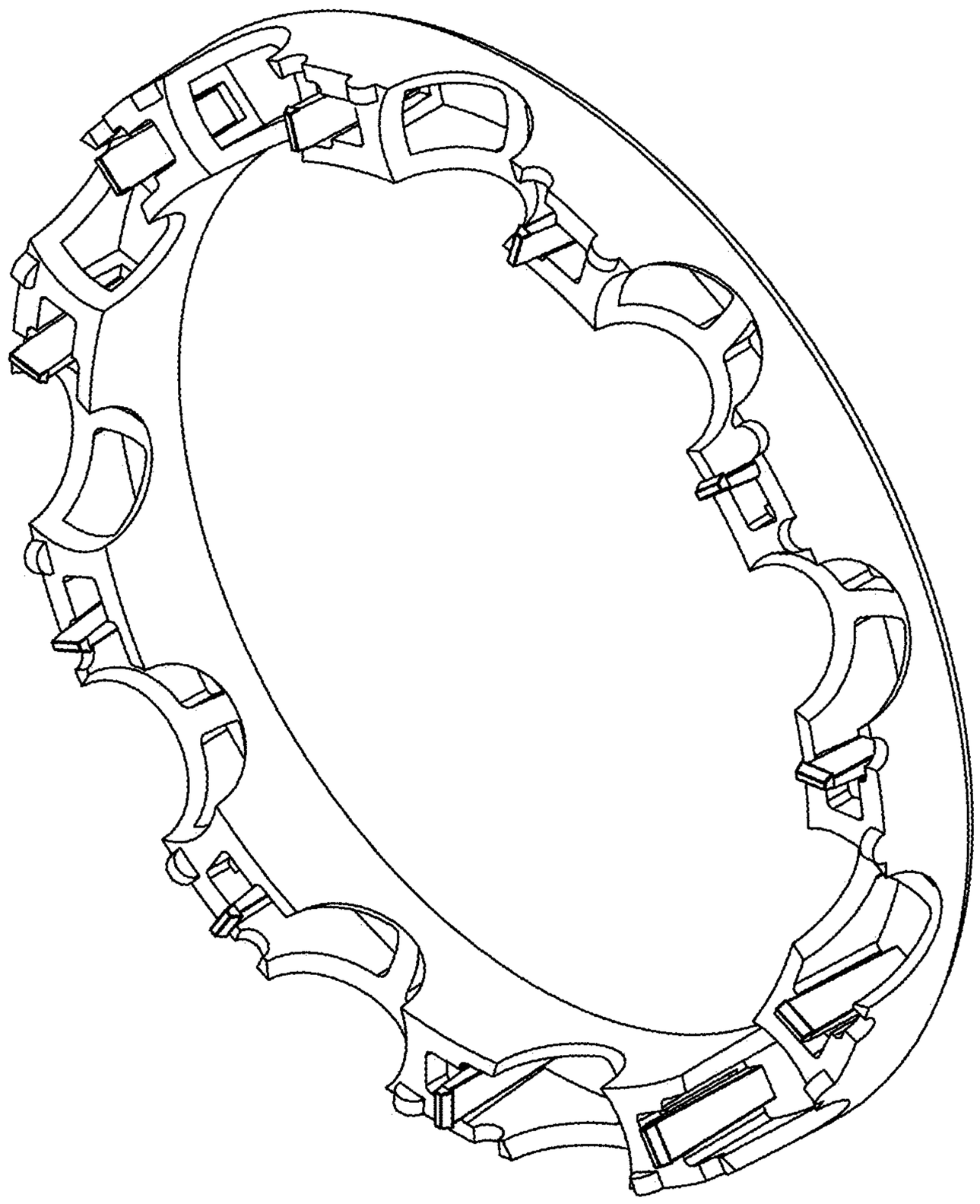


Fig. 1

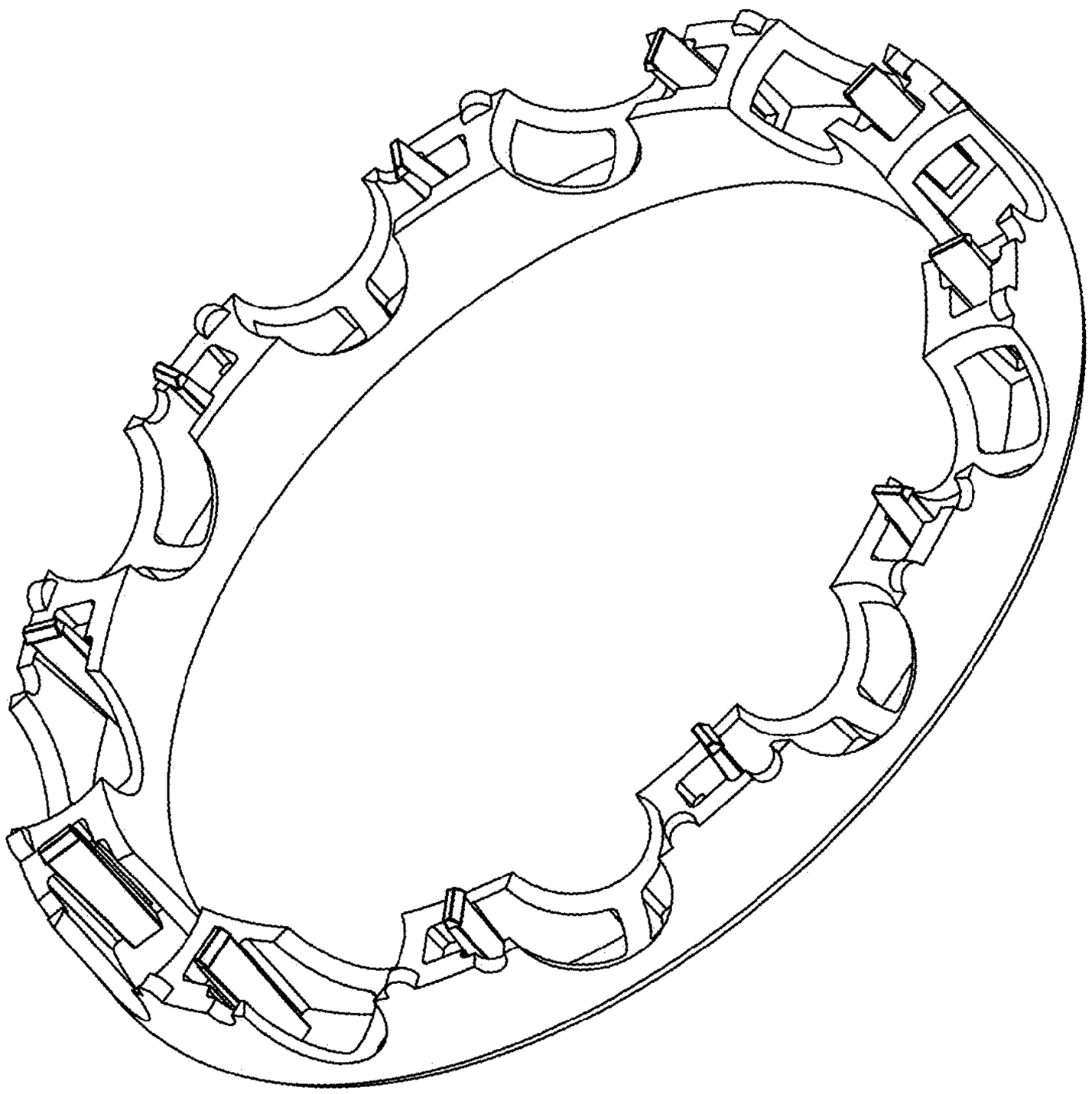


Fig. 2

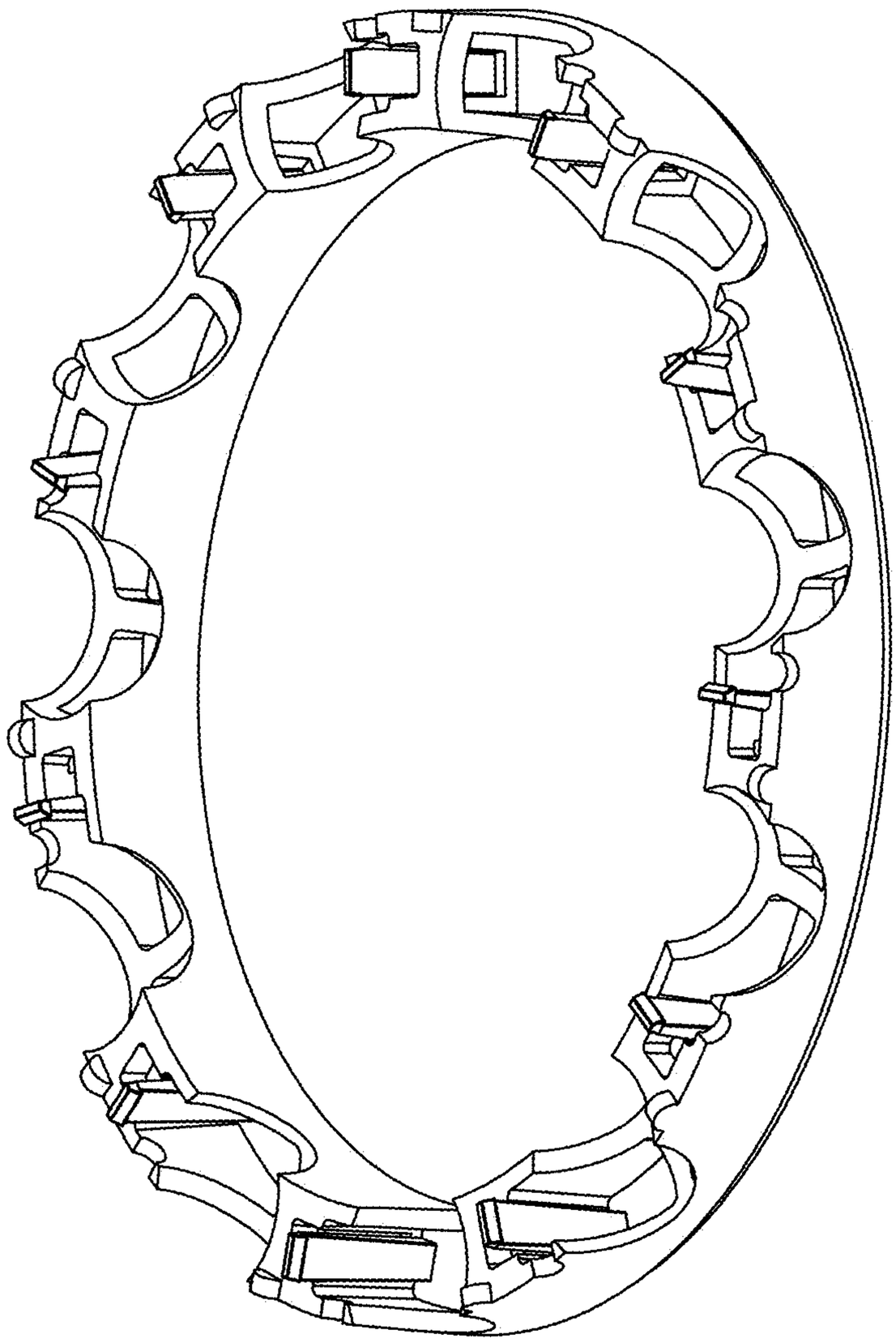


Fig. 3

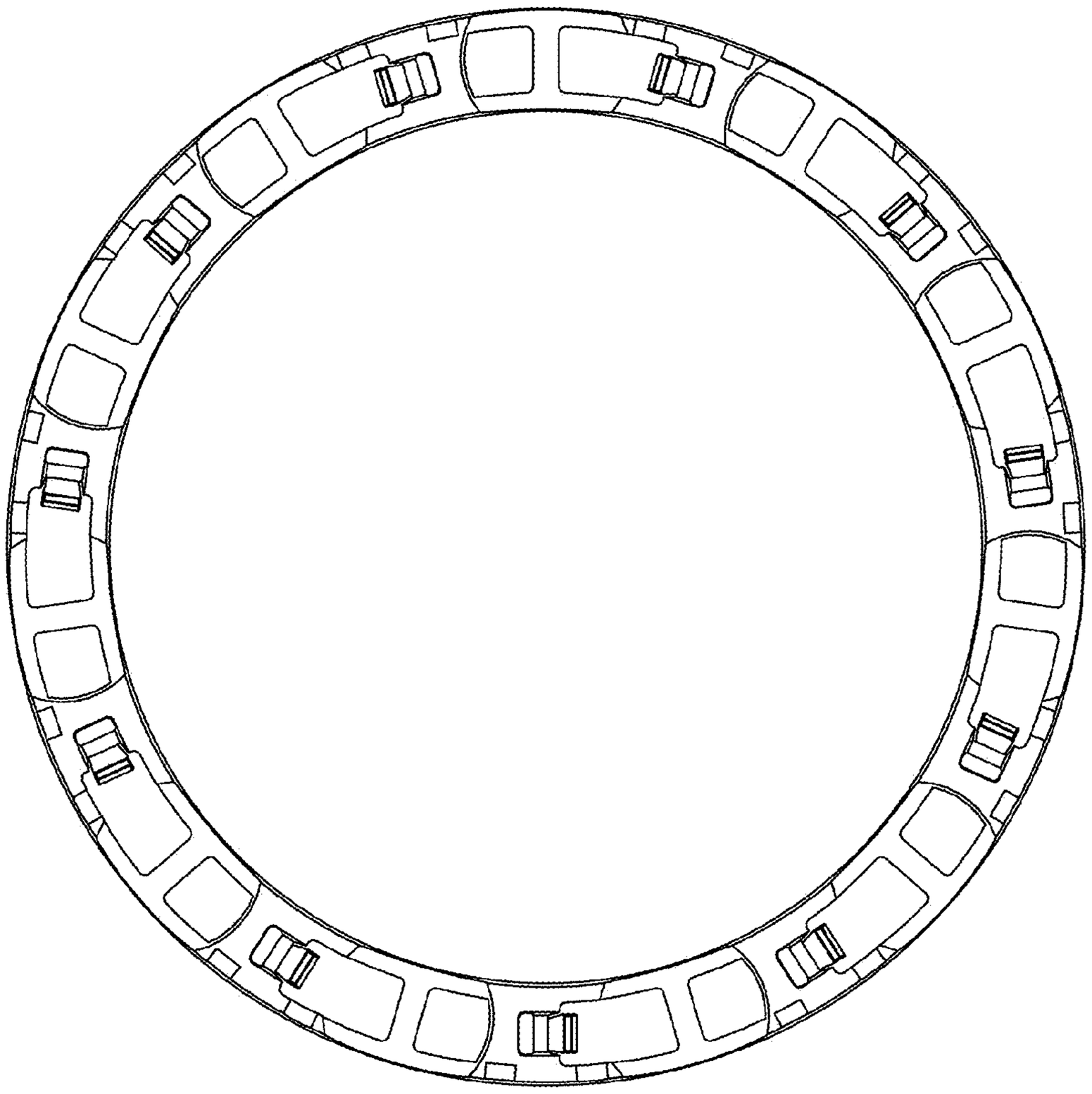


Fig. 4

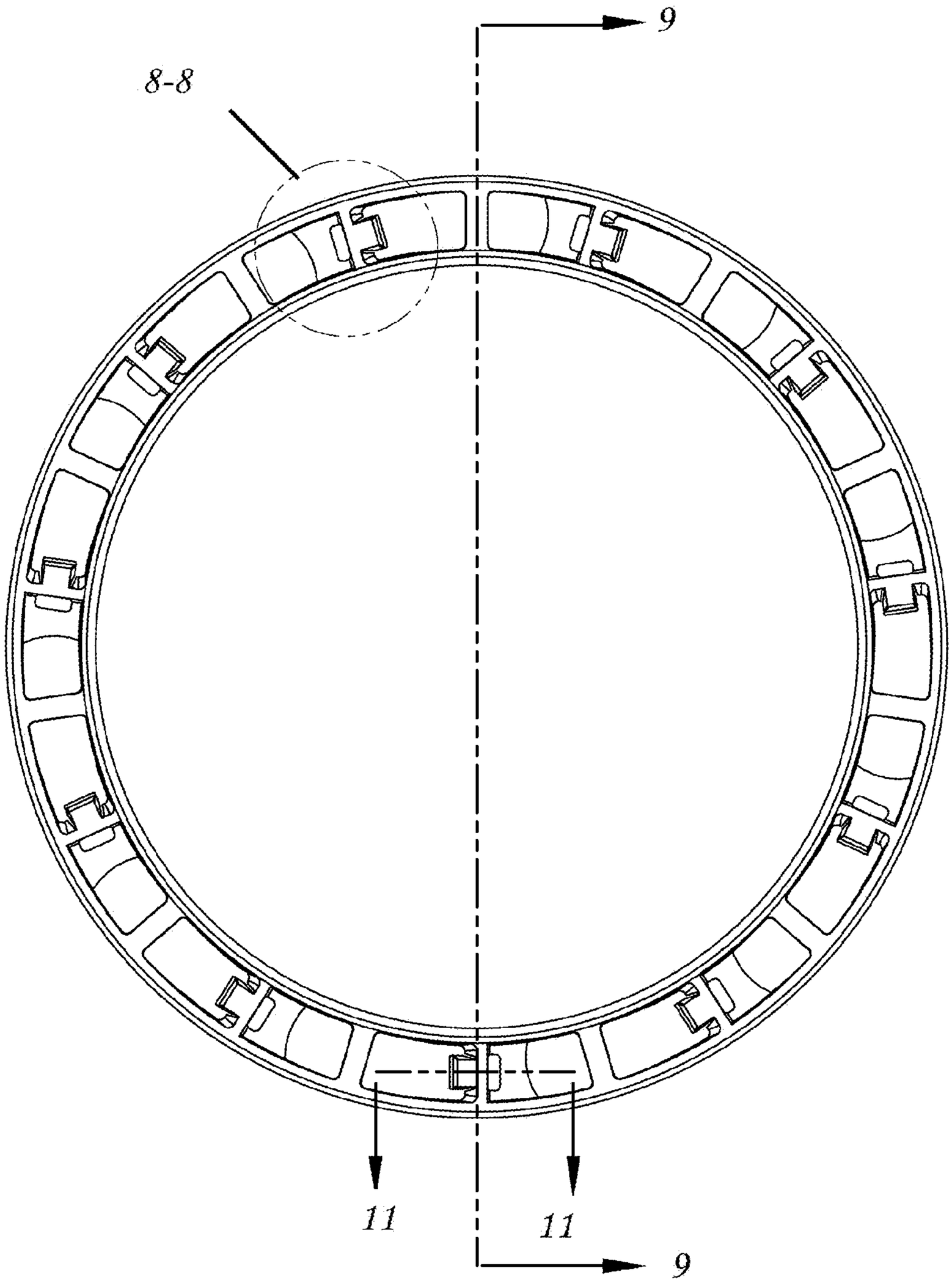


Fig. 5

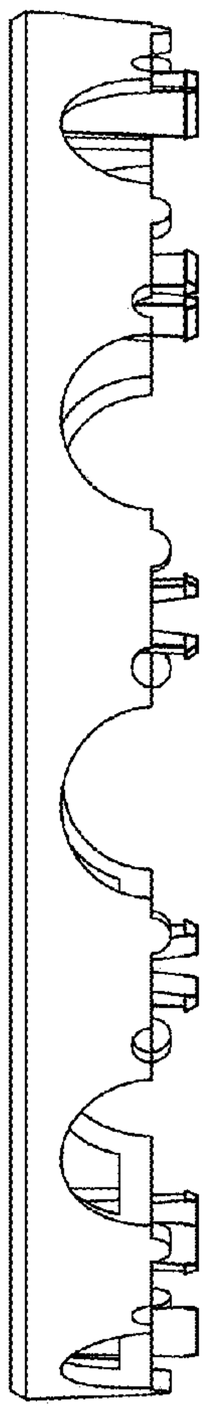
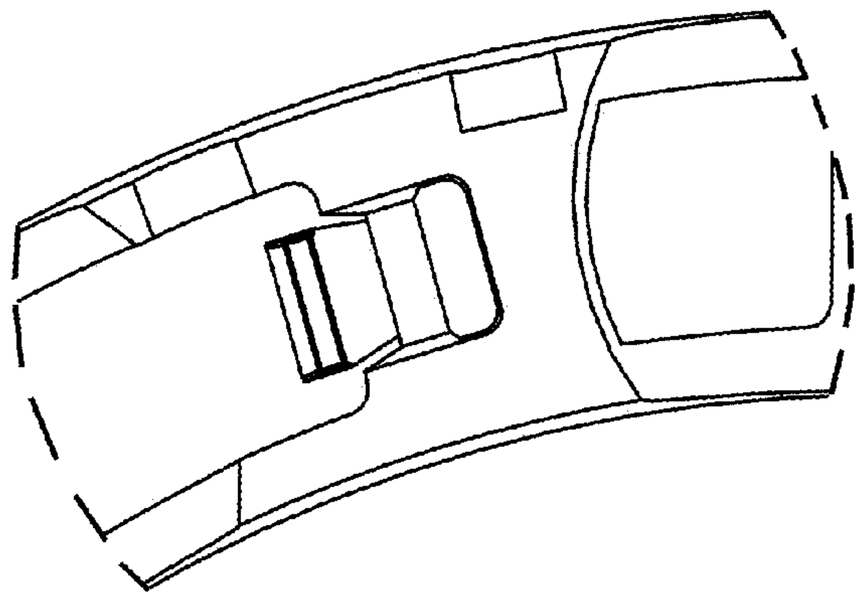


Fig.6



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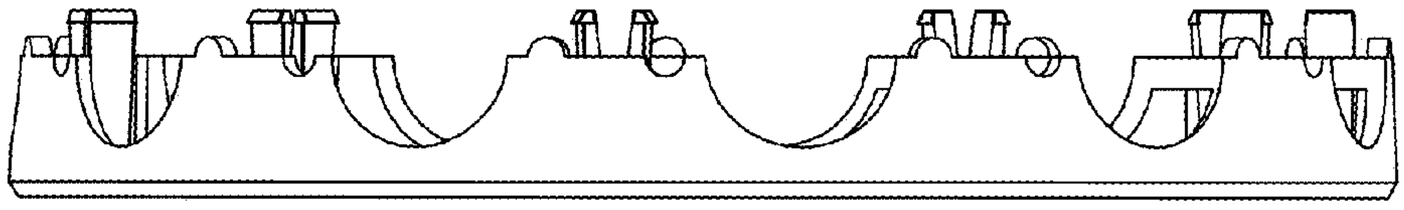


Fig. 7

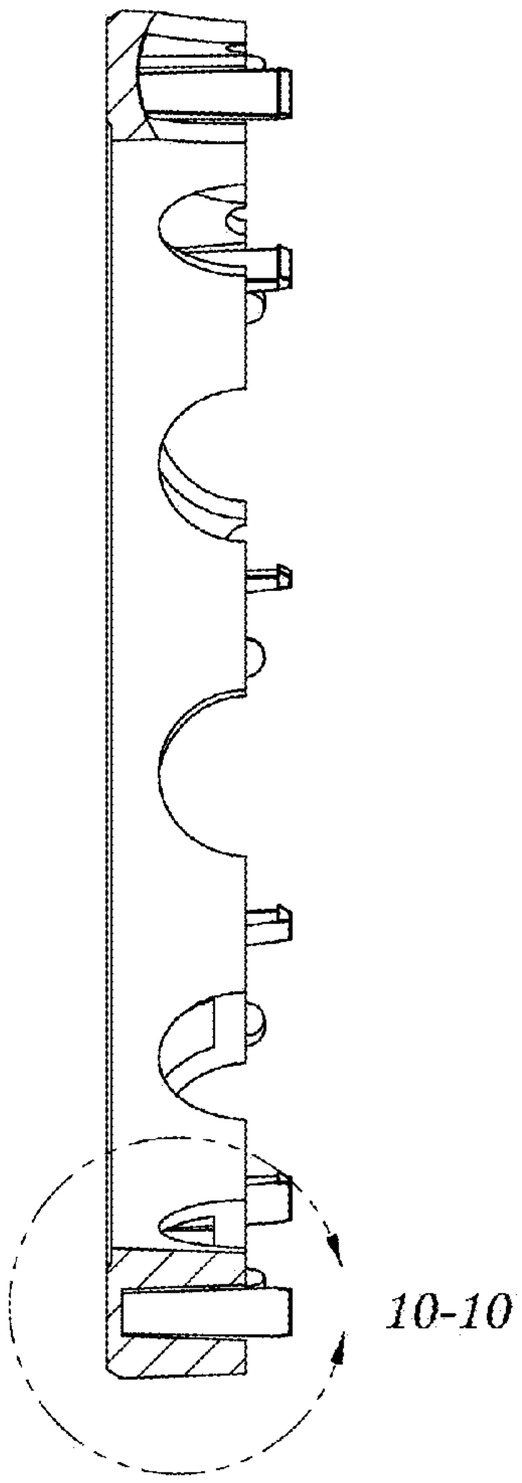


Fig. 9

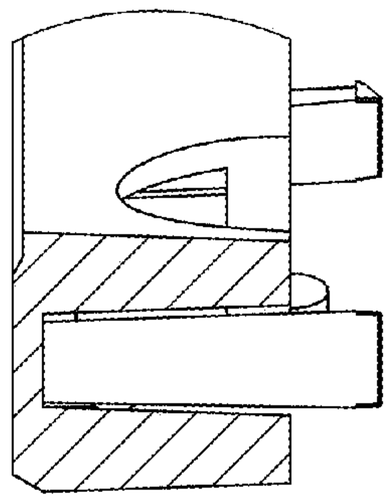
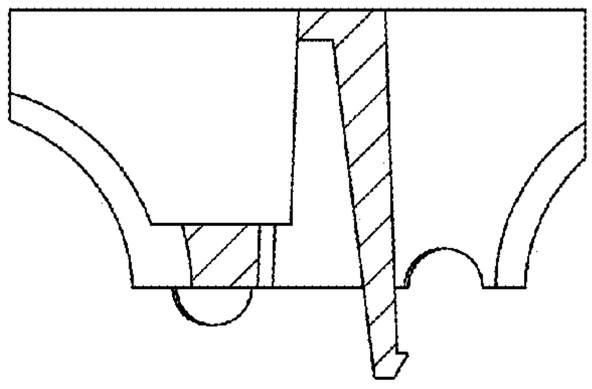


Fig. 10



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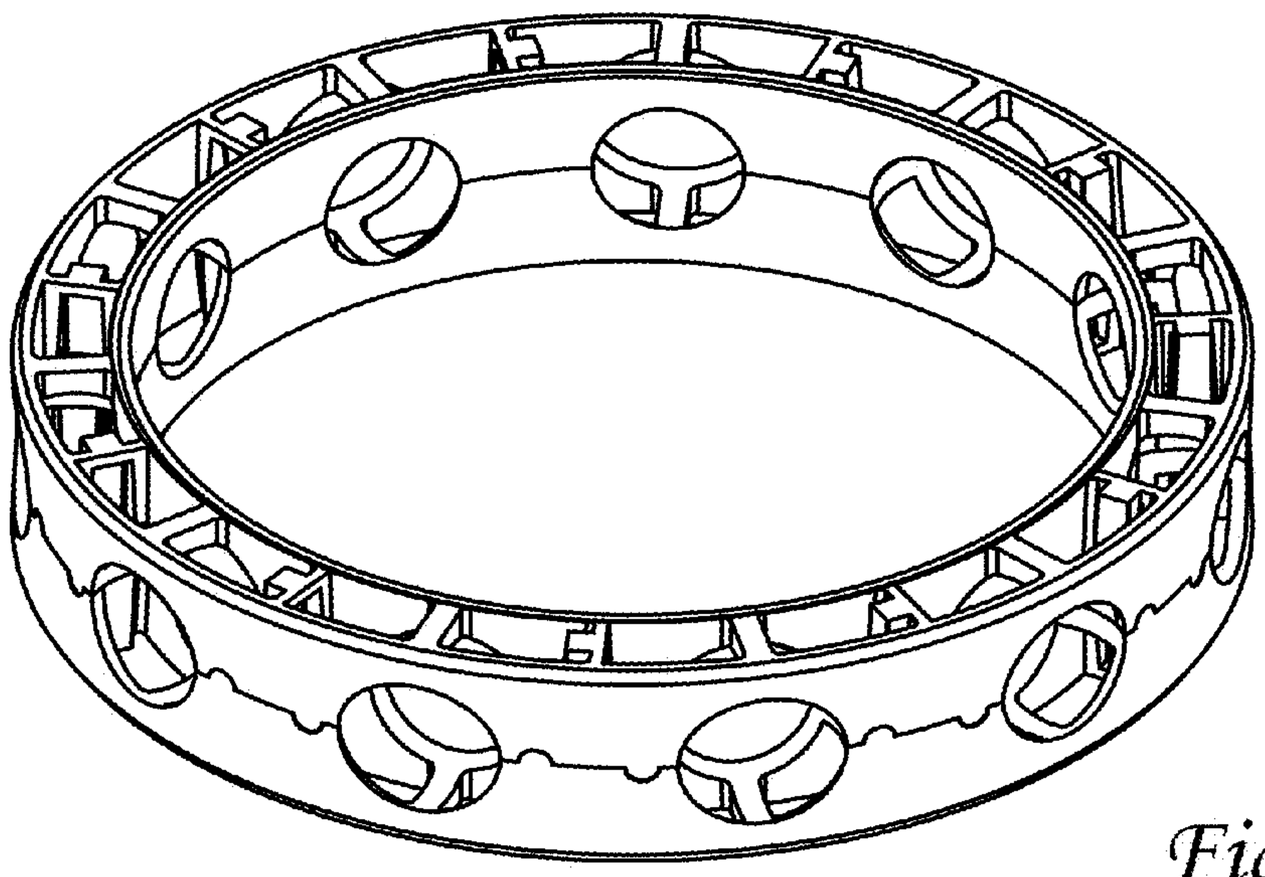

Fig. 12

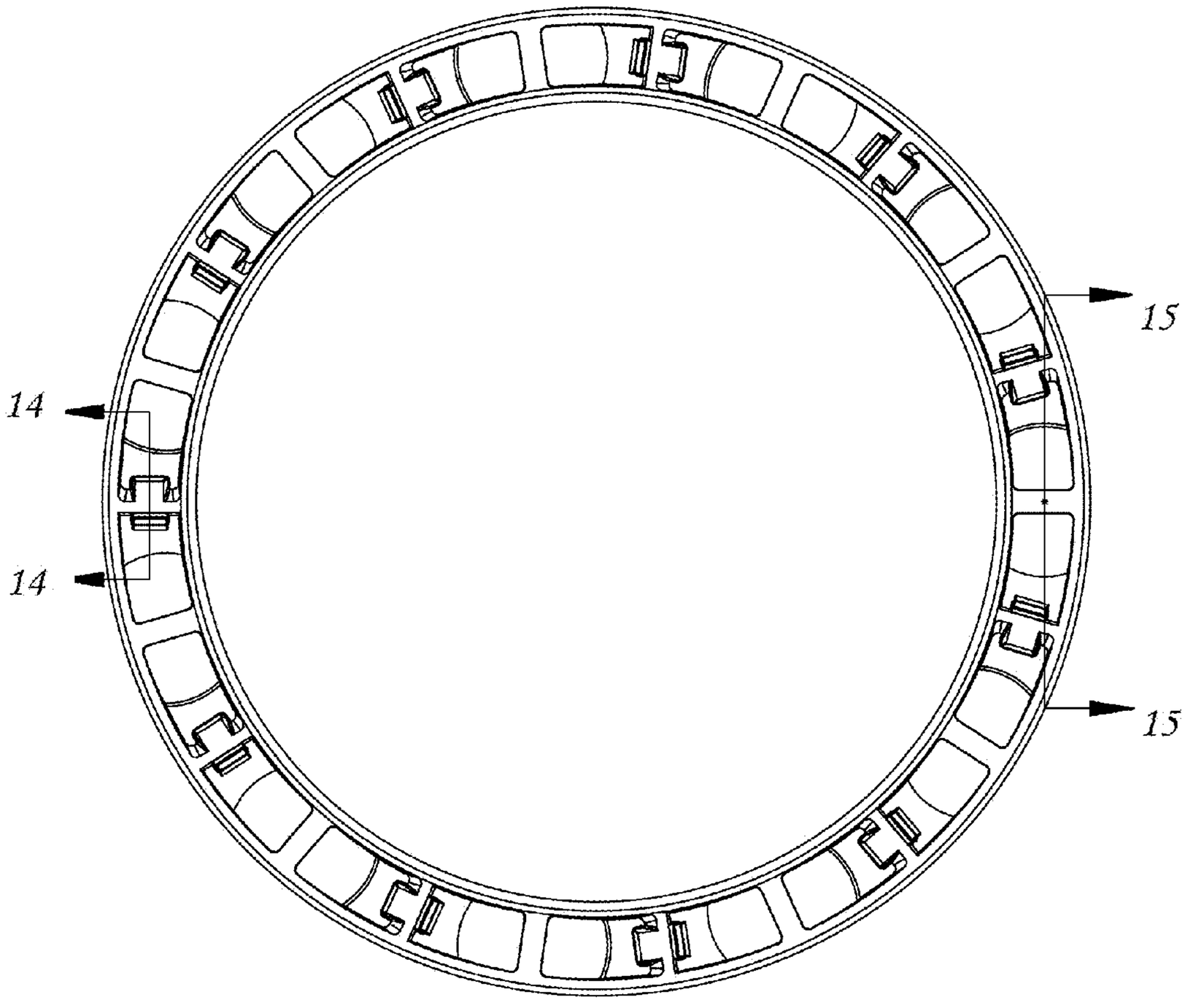

Fig. 13

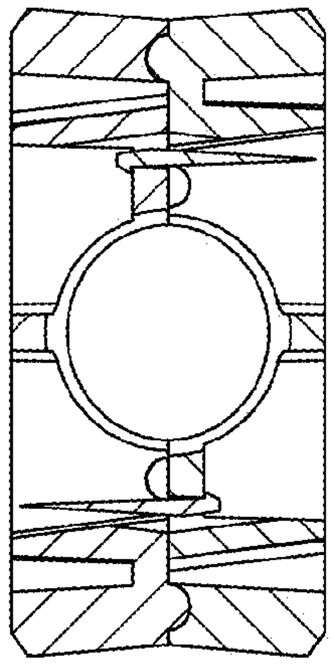

Fig. 14

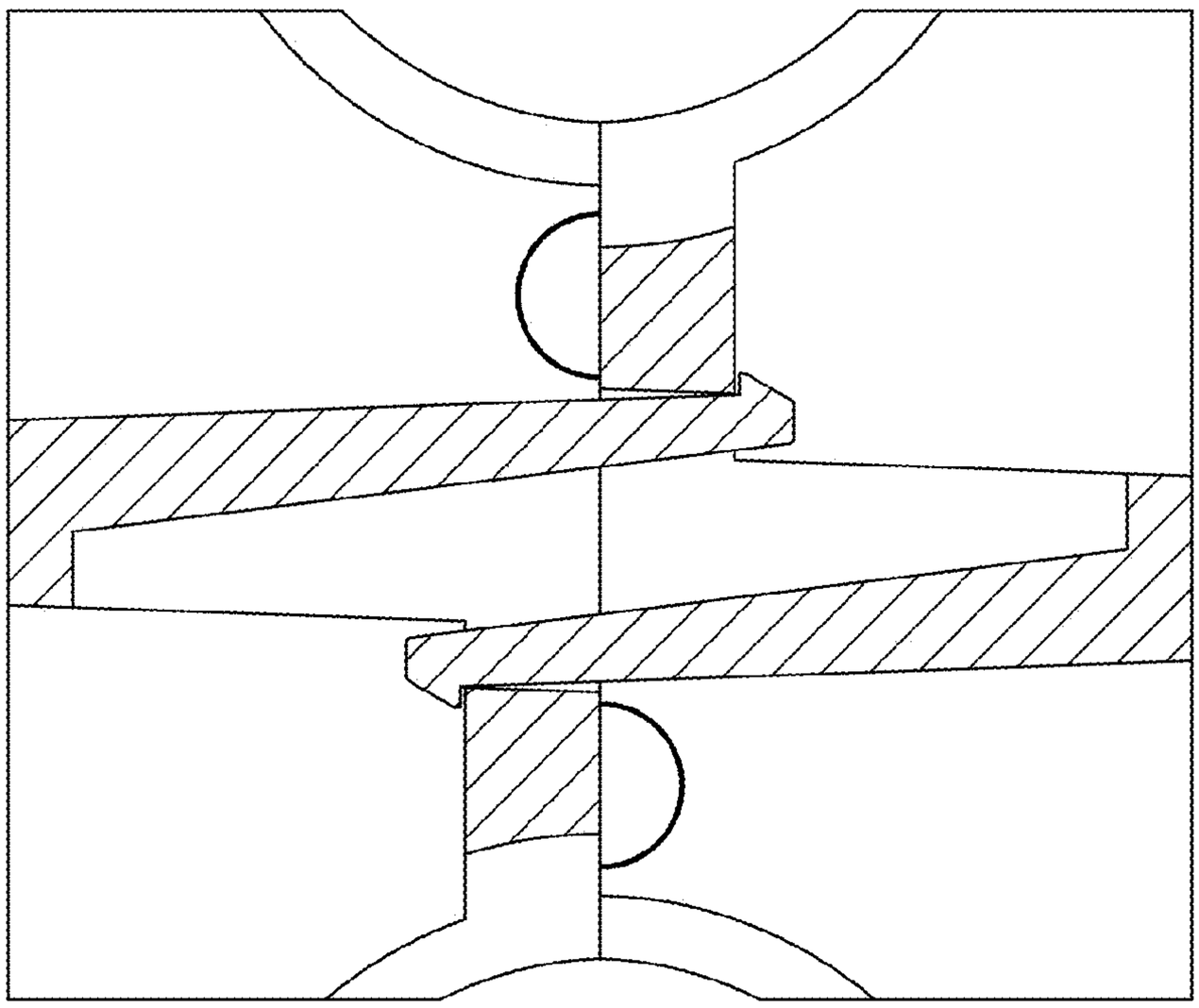

Fig. 15

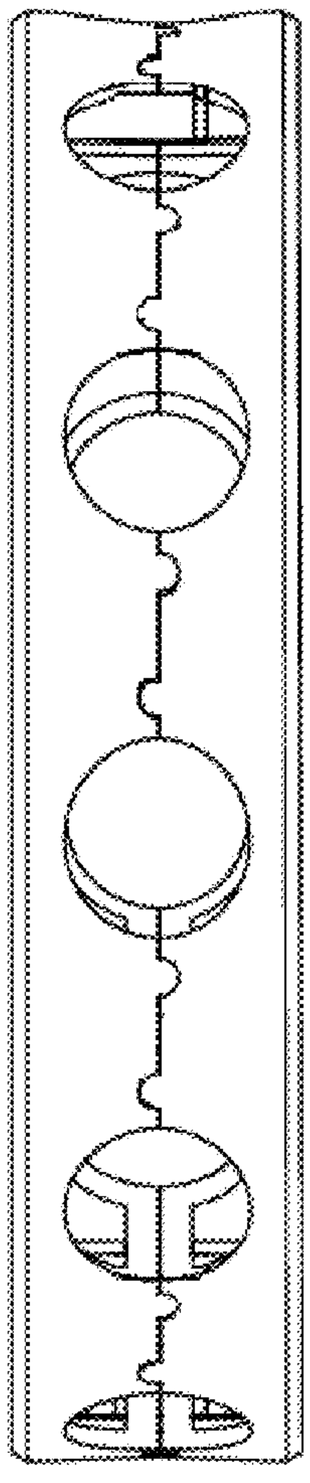

Fig. 16

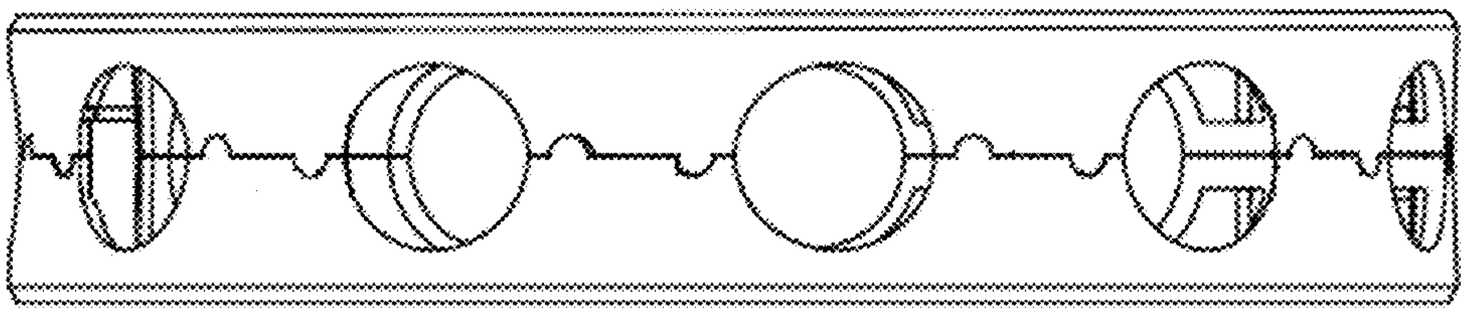

Fig. 17