US00D701939S

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

(10) **Patent No.: US D701,939 S**
(45) **Date of Patent: ** Apr. 1, 2014**

(54) **FLOW CONDITIONER**

(71) Applicant: **Canada Pipeline Accessories, Co. Ltd.**, Calgary (CA)

(72) Inventors: **Daniel A. Sawchuk**, Chestermere (CA); **Reginald Selirio**, Calgary (CA)

(73) Assignee: **Canada Pipeline Accessories, Co. Ltd**, Calgary, Alberta (CA)

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

(21) Appl. No.: **29/441,979**

(22) Filed: **Jan. 11, 2013**

(51) **LOC (10) Cl.** **23-01**
(52) **U.S. Cl.**
USPC **D23/213**; D23/249
(58) **Field of Classification Search**
USPC D23/213, 249; 239/428.5, 437; 261/DIG. 22; 138/39
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D198,356	S	6/1964	Wahlin et al.
D200,088	S	1/1965	Earnshaw
3,232,550	A	2/1966	Cuva
5,341,848	A	8/1994	Laws
5,495,872	A	3/1996	Gallagher et al.
5,762,107	A	6/1998	Laws

(Continued)

OTHER PUBLICATIONS

U.S. Appl. No. 61/753,512, filed Jan. 17, 2013.

(Continued)

Primary Examiner — Robin V Webster
(74) *Attorney, Agent, or Firm* — Cahn & Samuels, LLP

(57) **CLAIM**

The ornamental design for a flow conditioner, as shown and described.

DESCRIPTION

FIG. **1** illustrates a front perspective view of a flow conditioner having an extended bore length at least partially around an outer ring of holes or apertures.

FIG. **2** illustrates a rear perspective view of a flow conditioner of FIG. **1**.

FIG. **3** illustrates a front view of the flow conditioner of FIG. **1**.

FIG. **4** illustrates a rear view of the flow conditioner of FIG. **1**.

FIG. **5** illustrates a side view of the flow conditioner of FIG. **1**.

FIG. **6** illustrates a rear perspective view of a flow conditioner having integral vanes on a first side of the flow conditioner at least partly following contours of an outer ring of holes or apertures.

FIG. **7** illustrates a front perspective view of a flow conditioner of FIG. **6**.

FIG. **8** illustrates a front view of the flow conditioner of FIG. **6**.

FIG. **9** illustrates a rear view of the flow conditioner of FIG. **6**.

FIG. **10** illustrates a side view of the flow conditioner of FIG. **6**.

FIG. **11** illustrates a rear perspective view of a flow conditioner having integral vanes on a first side of a flow conditioner at least partly following contours of an outer ring of holes or apertures and at least partly following contours of an inner ring of holes or apertures according to another embodiment of the present invention.

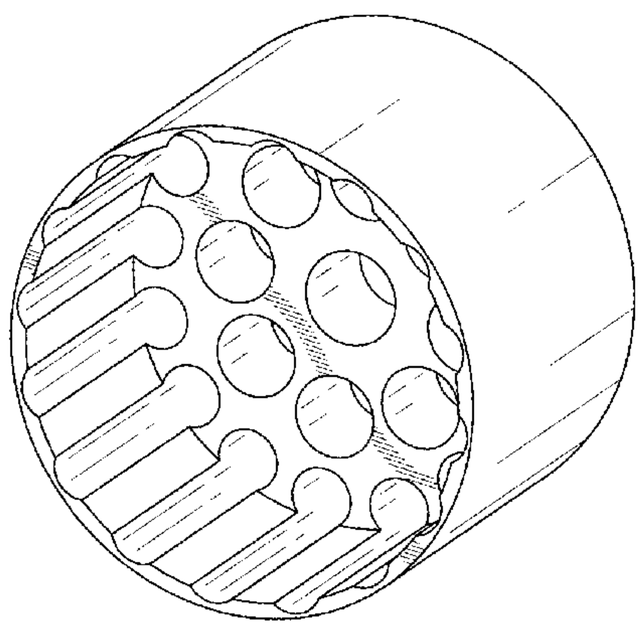
FIG. **12** illustrates a front perspective view of the flow conditioner of FIG. **11**.

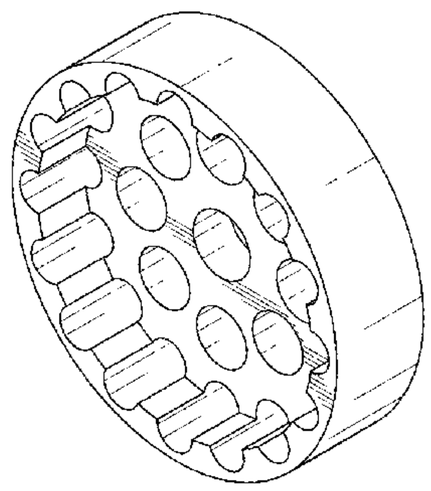
FIG. **13** illustrates a front view of the flow conditioner of FIG. **11**.

FIG. **14** illustrates a rear view of the flow conditioner of FIG. **11**; and,

FIG. **15** illustrates a side view of the flow conditioner of FIG. **11**.

1 Claim, 6 Drawing Sheets





(56) **References Cited**

U.S. PATENT DOCUMENTS

5,959,216	A	9/1999	Hocquet et al.
7,073,534	B2	7/2006	Sawchuk et al.
7,089,963	B2	8/2006	Meheen
D577,100	S	9/2008	Brown et al.
D577,101	S	9/2008	Kong et al.
D674,878	S	1/2013	Jones et al.
D682,987	S	5/2013	Blum
2005/0178455	A1	8/2005	Cancade et al.

OTHER PUBLICATIONS

U.S. Appl. No. 61/700,421, filed Sep. 13, 2012.

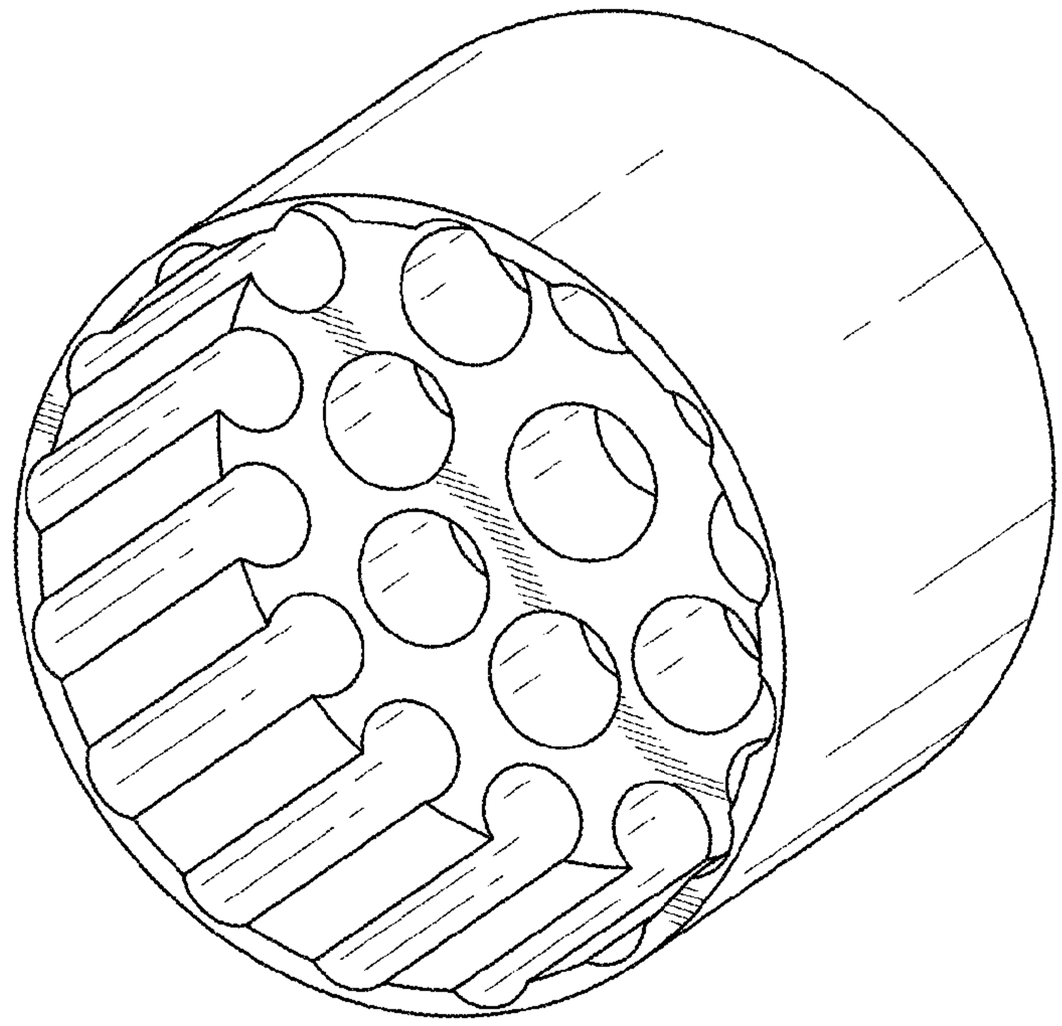


FIG. 1

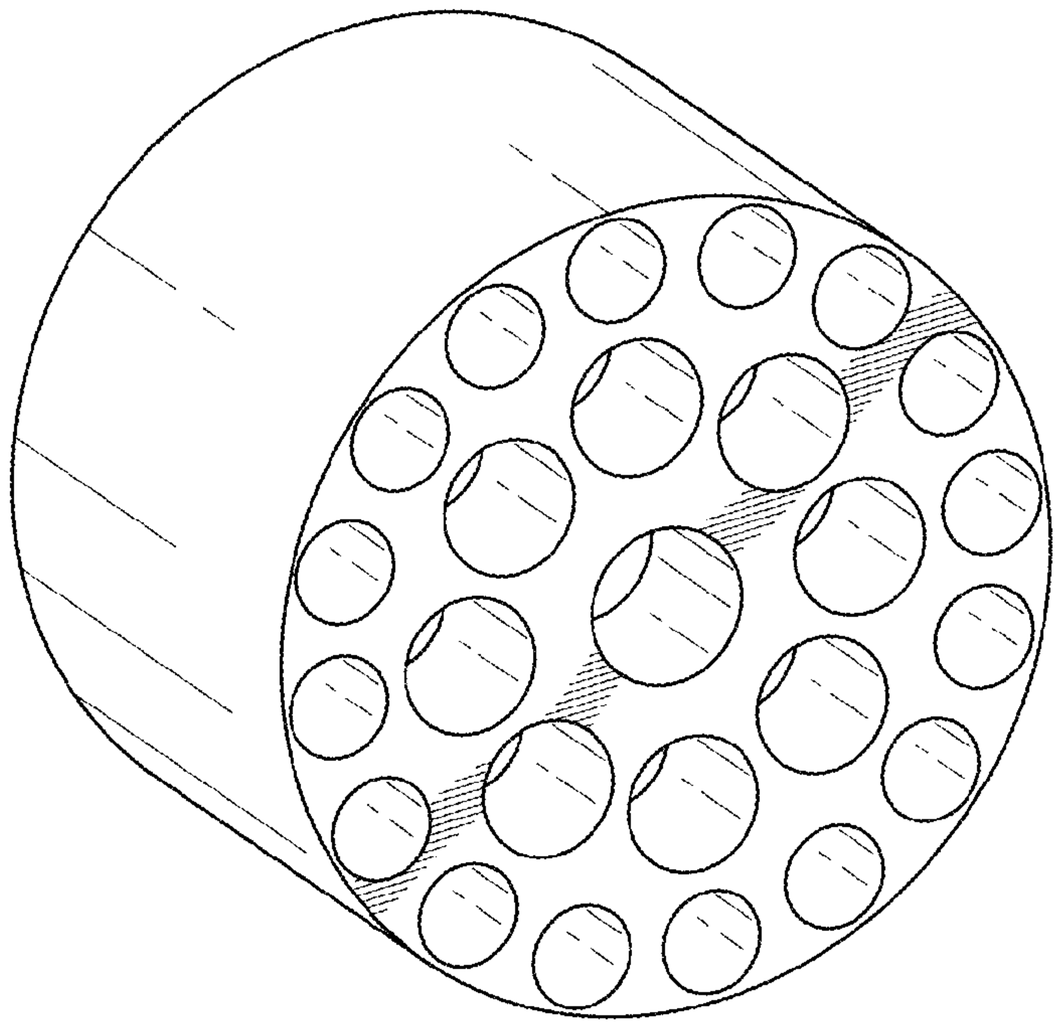


FIG. 2

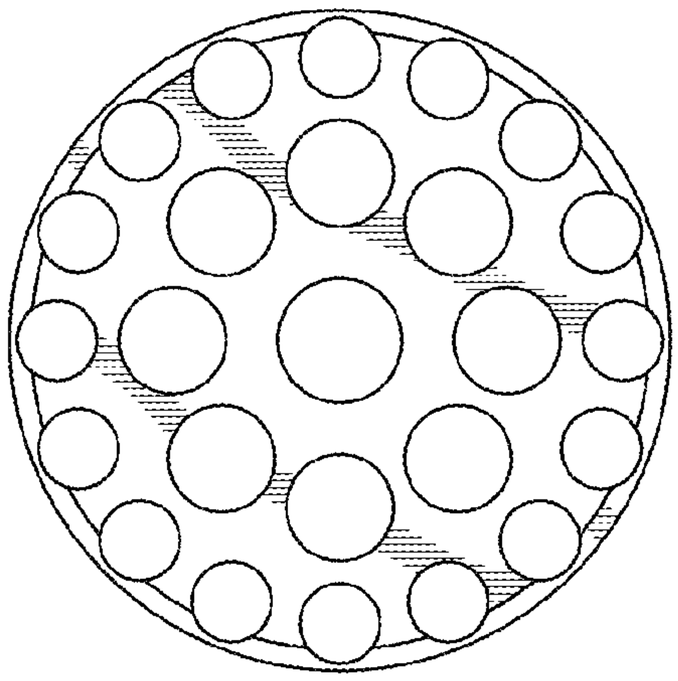


FIG. 3

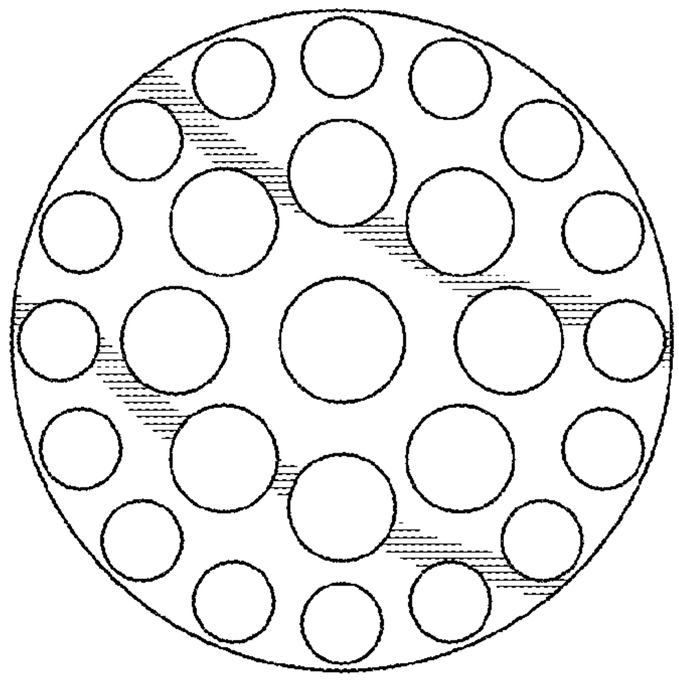


FIG. 4

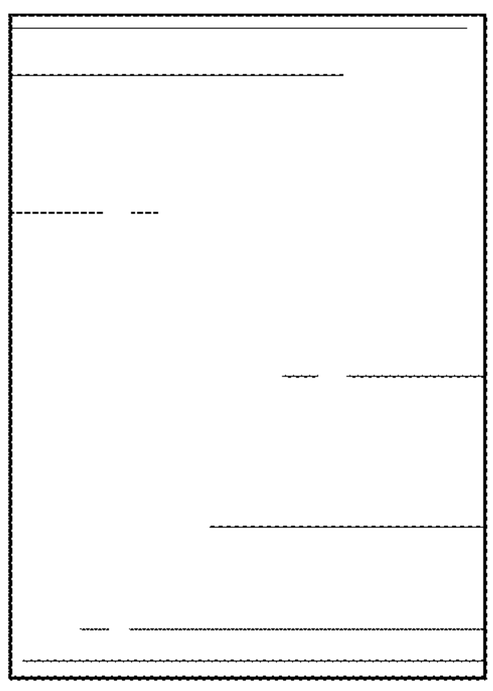


FIG. 5

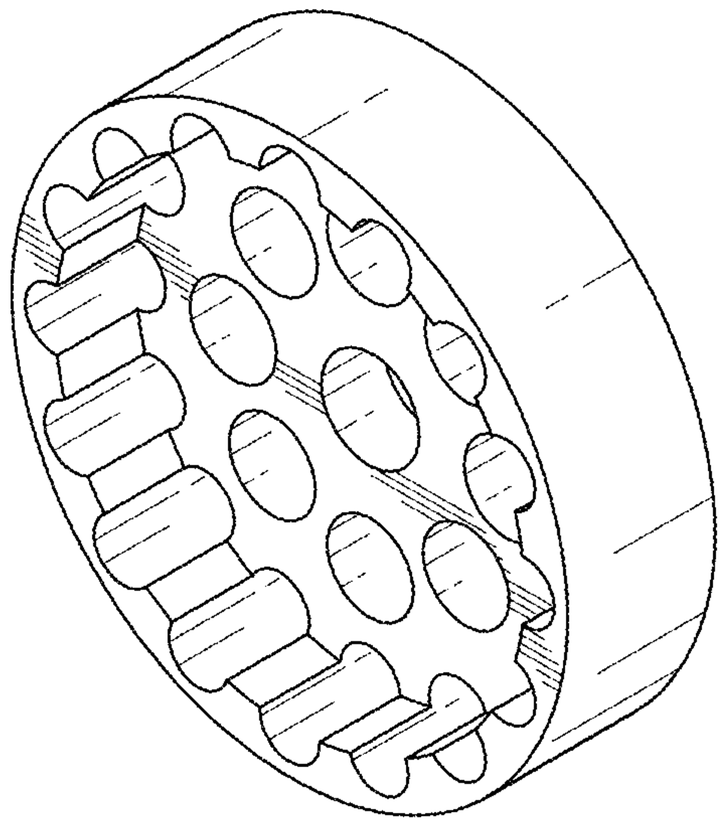


FIG. 6

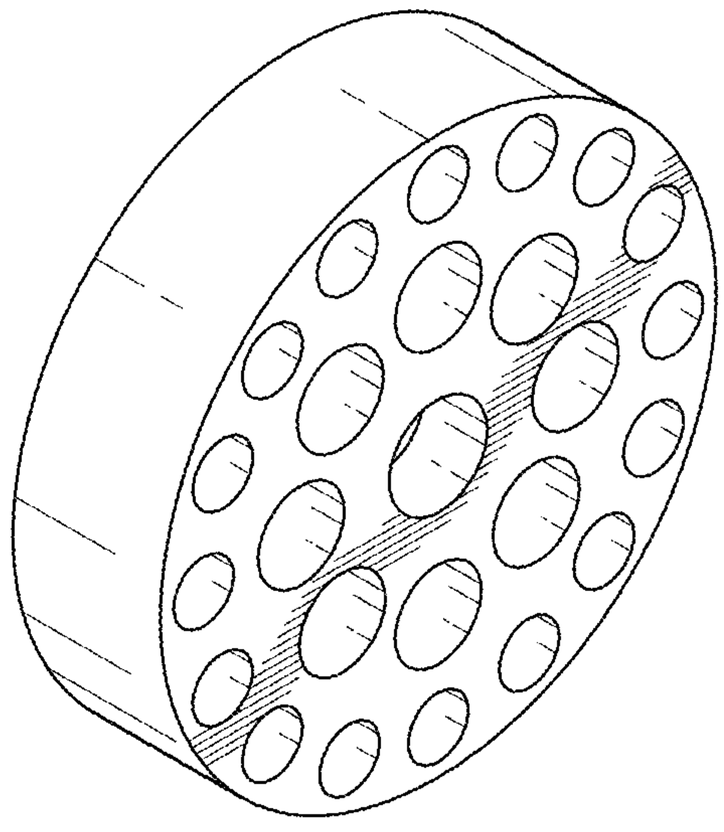


FIG. 7

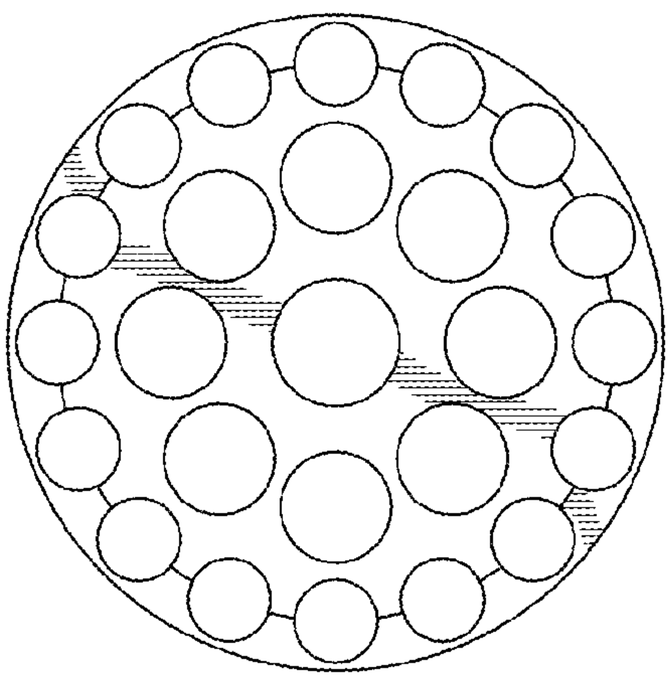


FIG. 8

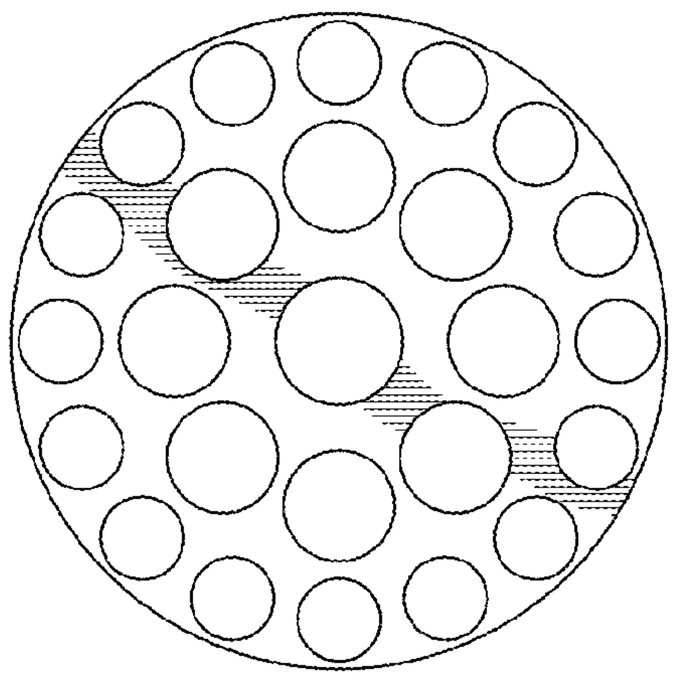


FIG. 9

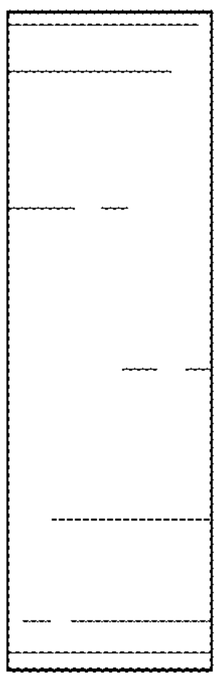


FIG. 10

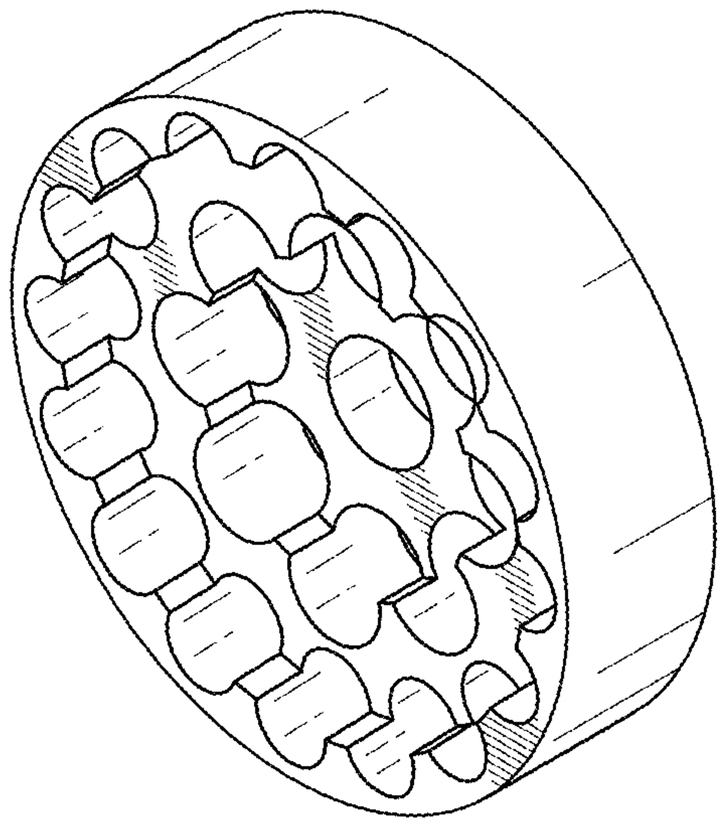


FIG. 11

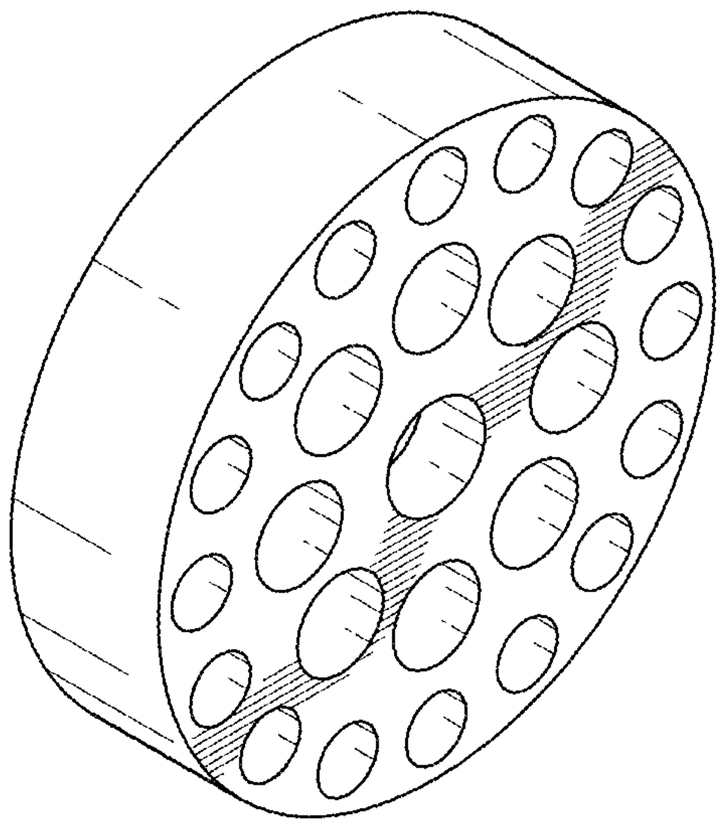


FIG. 12

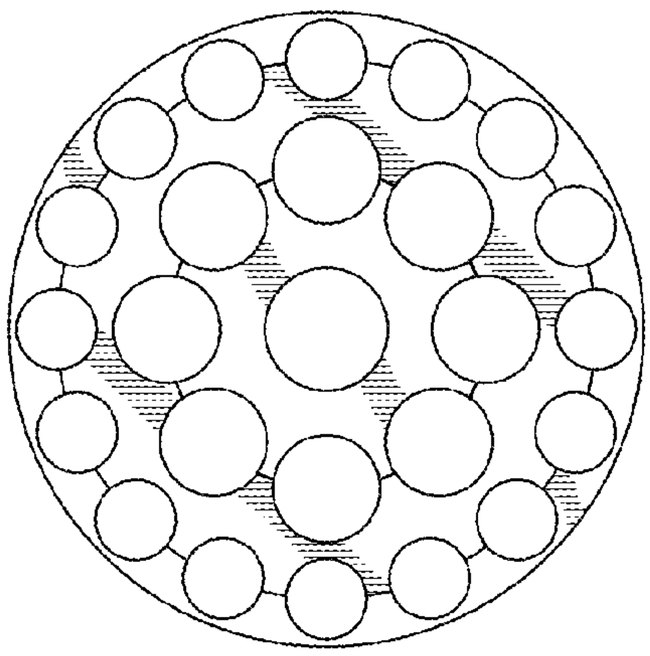


FIG. 13

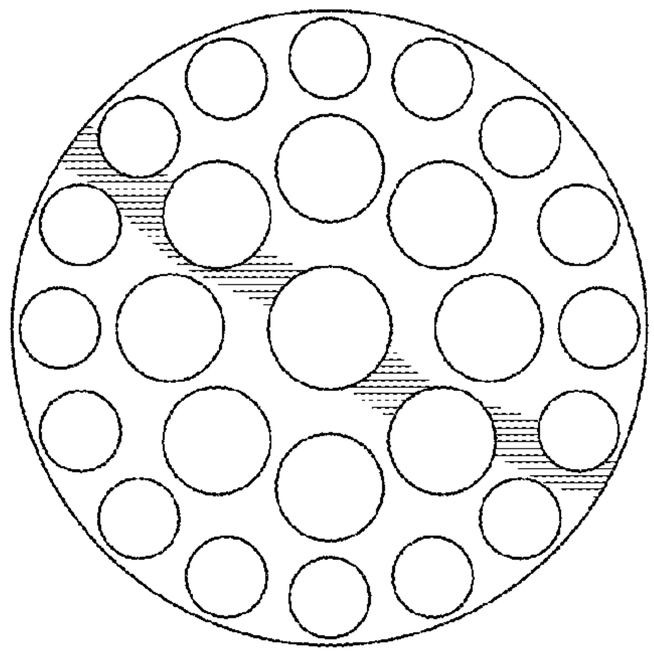


FIG. 14

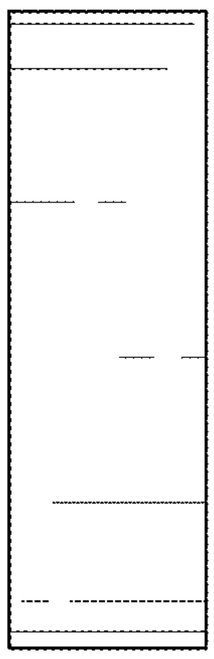


FIG. 15