



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

(10) **Patent No.:** **US D732,640 S**  
(45) **Date of Patent:** **\*\* Jun. 23, 2015**

- (54) **FLOW CONDITIONER FLANGE**
- (71) Applicant: **Canada Pipeline Accessories, Co. Ltd.**,  
Calgary (CA)
- (72) Inventors: **Daniel Sawchuk**, Chestermere (CA);  
**Reginald Selirio**, Calgary (CA); **Dale**  
**Sawchuk**, Calgary (CA); **Blaine**  
**Sawchuk**, Calgary (CA)
- (73) Assignee: **Canada Pipeline Accessories, Co. Ltd.**,  
Calgary, Alberta (CA)
- (\*\*) Term: **14 Years**
- (21) Appl. No.: **29/465,864**
- (22) Filed: **Sep. 2, 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 ..... D23/213  
D200,088 S \* 1/1965 Earnshaw ..... D23/213  
3,323,550 A \* 6/1967 Lee, II ..... 138/39  
5,341,848 A 8/1994 Laws  
(Continued)

- FOREIGN PATENT DOCUMENTS**  
CA 2171828 3/1995  
CA 2228928 8/1995  
(Continued)

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

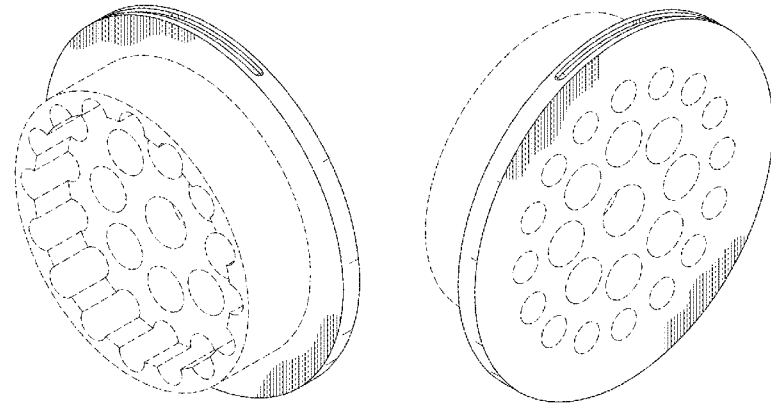
(57) **CLAIM**  
The ornamental design for a flow conditioner flange, as shown and described.

**DESCRIPTION**

FIG. 1 illustrates a front perspective view of a flow conditioner flange in accordance with a first embodiment of the

invention having a circumferential groove disposed along the flange edge.  
 FIG. 2 illustrates a rear perspective view of the flow conditioner flange of FIG. 1.  
 FIG. 3 illustrates a front view of the flow conditioner flange of FIG. 1.  
 FIG. 4 illustrates a rear view of the flow conditioner flange of FIG. 1.  
 FIG. 5 illustrates a side view of the flow conditioner flange of FIG. 1.  
 FIG. 6 illustrates a front perspective view of a flow conditioner flange in accordance with a second embodiment of the invention having a circumferential groove disposed along the flange edge.  
 FIG. 7 illustrates a rear perspective view of a flow conditioner flange of FIG. 6.  
 FIG. 8 illustrates a front view of the flow conditioner flange of FIG. 6.  
 FIG. 9 illustrates a rear view of the flow conditioner flange of FIG. 6.  
 FIG. 10 illustrates a side view of the flow conditioner flange of FIG. 6.  
 FIG. 11 illustrates a front perspective view of a flow conditioner flange in accordance with a third embodiment of the invention having a circumferential groove disposed along the flange edge.  
 FIG. 12 illustrates a rear perspective view of a flow conditioner flange of FIG. 11.  
 FIG. 13 illustrates a front view of the flow conditioner flange of FIG. 11.  
 FIG. 14 illustrates a rear view of the flow conditioner flange of FIG. 11; and,  
 FIG. 15 illustrates a side view of the flow conditioner flange of FIG. 11.  
 The purpose of the broken lines in the drawings is to illustrate environmental structure that forms no part of the design sought to be patented herein.

**1 Claim, 6 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

5,495,872 A 3/1996 Gallagher et al.  
5,606,297 A 2/1997 Phillips  
5,762,107 A 6/1998 Laws  
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 ..... 138/44  
D577,100 S \* 9/2008 Brown et al. .... D23/213  
D577,101 S \* 9/2008 Kong et al. .... D23/213  
7,845,688 B2 12/2010 Gallagher et al.  
8,132,961 B1 3/2012 England et al.  
D674,878 S \* 1/2013 Jones et al. .... D23/213  
D682,987 S \* 5/2013 Blum ..... D23/213

D697,581 S 1/2014 Sawchuk et al.  
D701,939 S 4/2014 Sawchuk et al.  
D713,492 S 9/2014 Sawchuk et al.  
D721,417 S 1/2015 Sawchuk et al.  
2005/0178455 A1 8/2005 Cancade et al.  
2008/0246277 A1 10/2008 Gallagher et al.

FOREIGN PATENT DOCUMENTS

CA 2787659 7/2011  
GB 1469648 4/1977  
WO 2014040191 A1 3/2014  
WO 2014110673 A1 7/2014  
WO 2014186883 A1 11/2014

\* cited by examiner

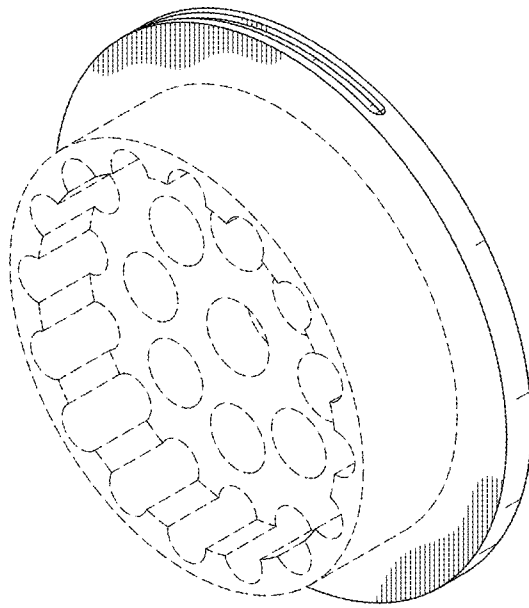


FIG. 1

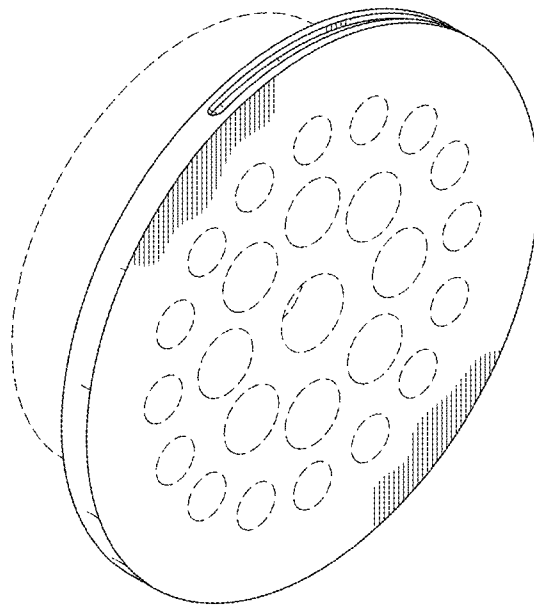


FIG. 2

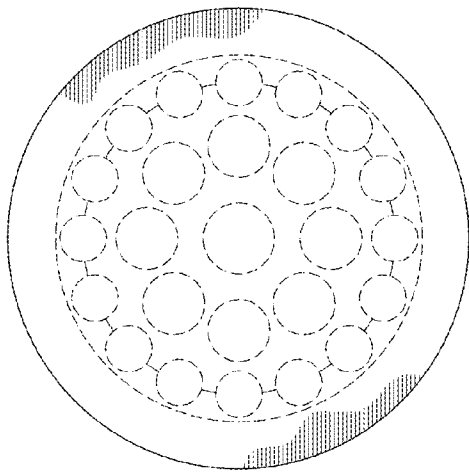


FIG. 3

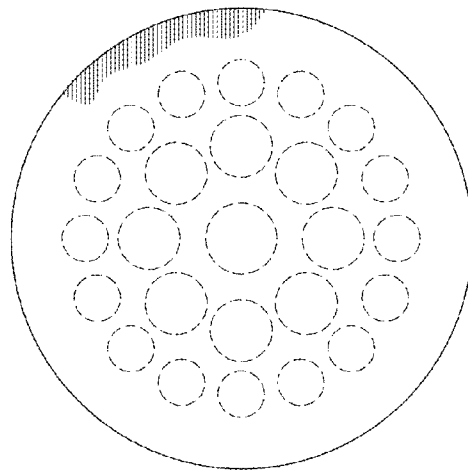


FIG. 4

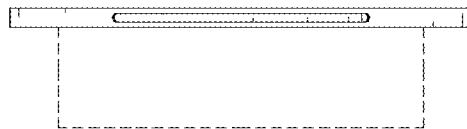


FIG. 5

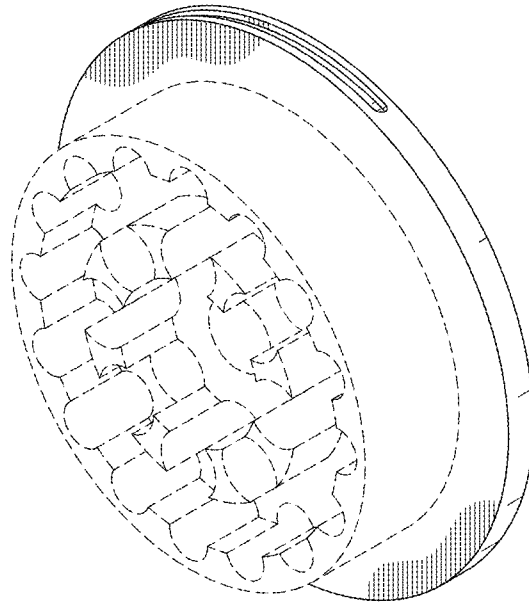


FIG. 6

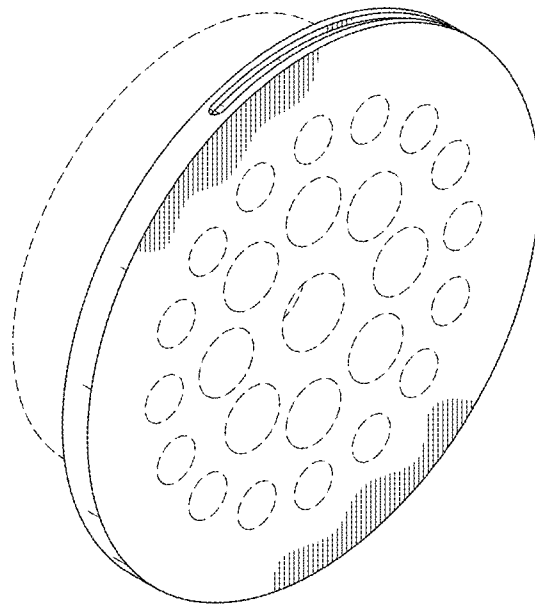


FIG. 7

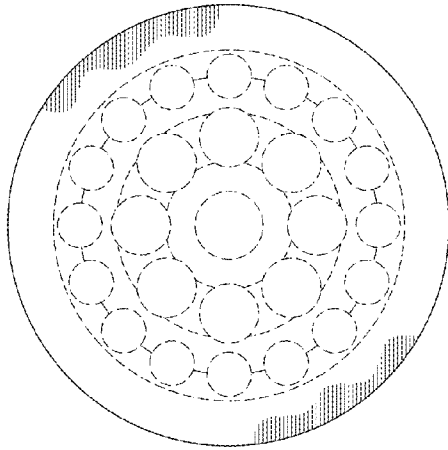


FIG. 8

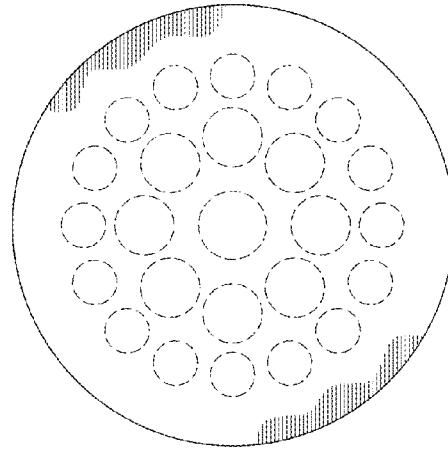


FIG. 9

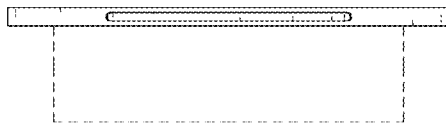


FIG. 10

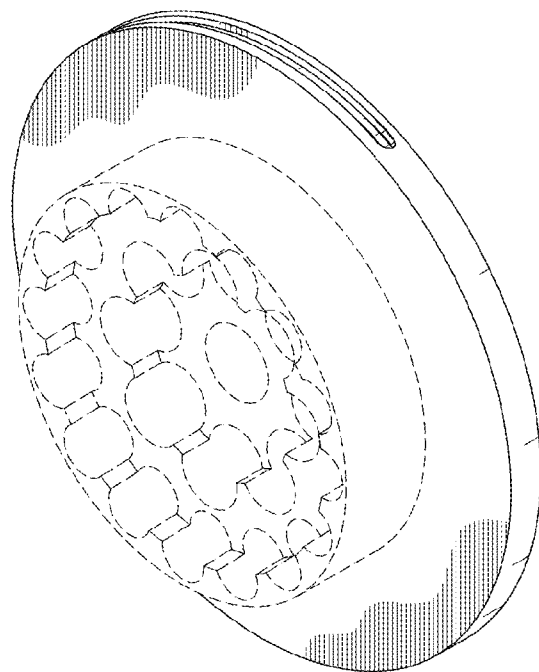


FIG. 11

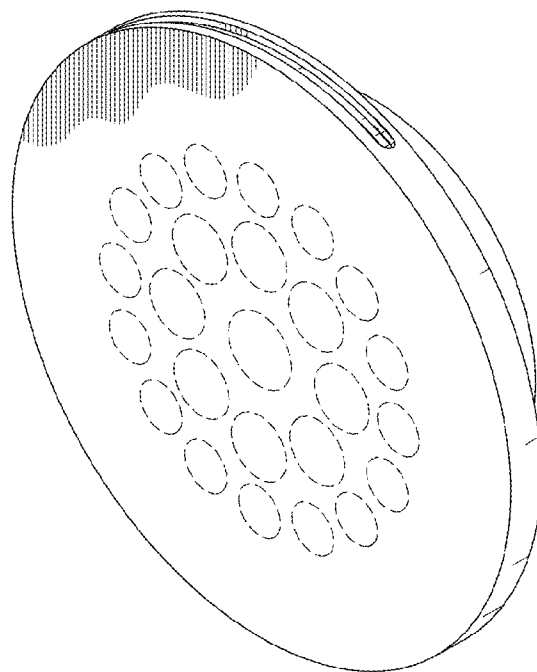


FIG. 12

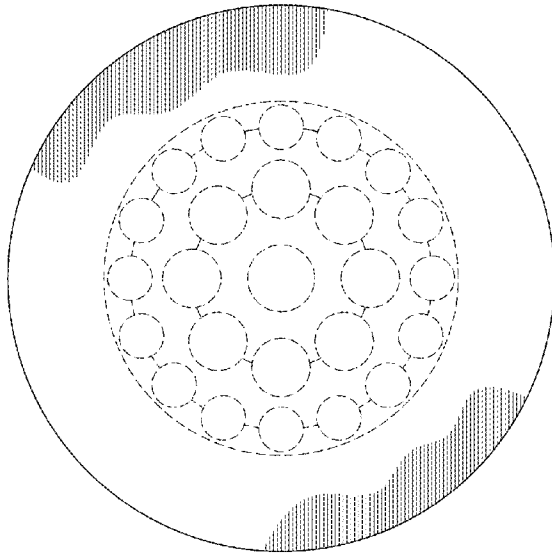


FIG. 13

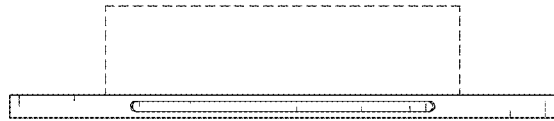


FIG. 15

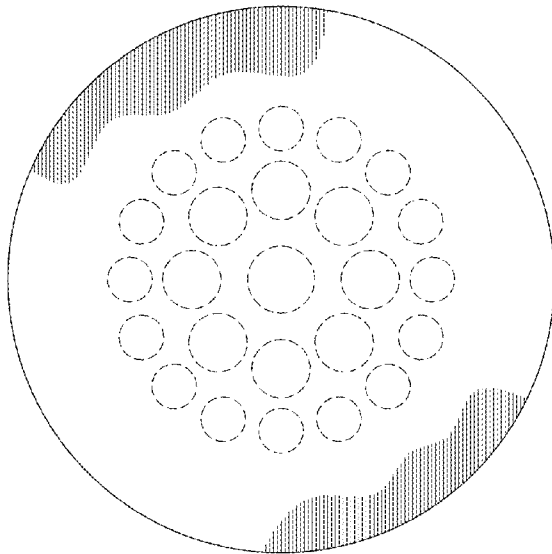


FIG. 14