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

(10) **Patent No.:** **US D563,441 S**

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(54) **EXTRUDER PLATE FOR GENERALLY TRIANGULAR SHAPED EXTRUDER INSERTS**

4,747,986 A * 5/1988 Chao 264/209.8

(Continued)

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FOREIGN PATENT DOCUMENTS

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EP 556006-001/013 8/1993

(Continued)

(*) Notice: This patent is subject to a terminal disclaimer.

OTHER PUBLICATIONS

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

U.S. Appl. No. 60/548,693, filed Feb. 27, 2004, Pinchot.

(Continued)

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(74) *Attorney, Agent, or Firm*—Fay Sharpe LLP; Brian E. Turung

(51) **LOC (8) Cl.** **15-99**

(57) **CLAIM**

(52) **U.S. Cl.** **D15/199; 15/139**

The ornamental design for an extruder plate for generally triangular shaped extruder inserts, as shown and described.

(58) **Field of Classification Search** D7/368, D7/387, 665, 672, 676, 677; D15/138, 139, D15/199; D21/398, 401, 444, 468, 483, D21/488, 501–503, 563, 680; 264/117.12, 264/209.1, 209.8; 366/76.1, 149; 425/190, 425/208, 380

DESCRIPTION

See application file for complete search history.

FIG. 1 is a top plan view of an extruder plate for generally triangular shaped extruder inserts showing my new design; FIG. 2 is a cross-sectional view along line 2—2 of FIG. 1; and,

FIG. 3 is an enlarged view of one triangular die insert opening.

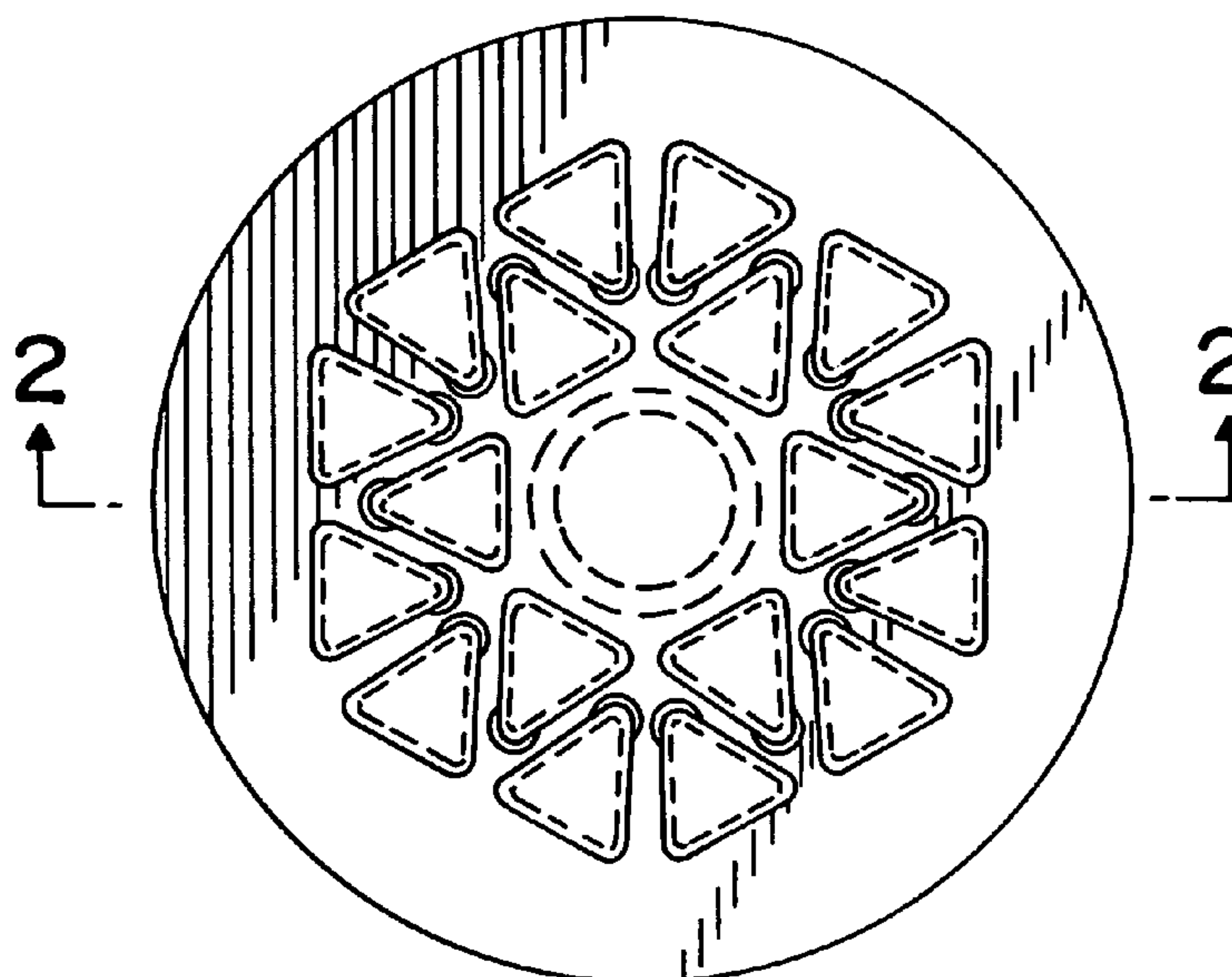
The broken line showing of the extruder plate for generally triangular shaped extruder inserts is included for the purpose of illustrating portions of the extruder plate for generally triangular shaped extruder inserts and forms no part of the claimed design. The broken diagonal lines indicate the sectional portion.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 3,303,247 A * 2/1967 Carter et al. 264/209.8
- 3,412,694 A * 11/1968 Hewett et al. 425/380
- 3,690,806 A * 9/1972 Kovacs 425/380
- 3,790,654 A * 2/1974 Bagley 264/209.1
- 3,911,070 A * 10/1975 Lundsager 264/209.1
- 3,933,965 A * 1/1976 Gallone et al. 264/209.1
- D241,565 S * 9/1976 Molenaar D21/444
- 4,293,357 A 10/1981 Higuchi et al.
- 4,354,820 A * 10/1982 Yamamoto et al. 264/209.8
- 4,738,735 A 4/1988 Joncker et al.

1 Claim, 1 Drawing Sheet



US D563,441 S

Page 2

U.S. PATENT DOCUMENTS

4,767,309	A *	8/1988	Mizuno et al.	264/209.1
4,812,276	A *	3/1989	Chao	264/209.8
4,846,657	A *	7/1989	Chao	425/190
D311,304	S *	10/1990	Virk	D7/672
5,882,782	A	3/1999	Tsubone	
5,938,992	A	8/1999	Hamanaka et al.	
5,972,254	A	10/1999	Sander	
D421,555	S *	3/2000	Duhamel	D7/665
6,045,764	A	4/2000	Iizuka et al.	
6,156,698	A	12/2000	Iida et al.	
6,162,524	A	12/2000	Patchett et al.	
D435,759	S *	1/2001	Durbin et al.	D7/387
6,206,675	B1	3/2001	BeVier	
D442,612	S	5/2001	Pinchot	
D444,487	S	7/2001	Pinchot	
D446,794	S	8/2001	Pinchot	
D450,732	S	11/2001	Pinchot	
D452,257	S	12/2001	Pinchot	
6,345,972	B1 *	2/2002	Guillemette	425/380
6,413,595	B1 *	7/2002	Schirmer	264/172.15
D469,116	S	1/2003	Pinchot	
D469,117	S	1/2003	Pinchot	
D469,452	S	1/2003	Pinchot	
D469,453	S	1/2003	Pinchot	
D469,454	S	1/2003	Pinchot	
D470,869	S	2/2003	Pinchot	
D470,870	S	2/2003	Pinchot	
D472,252	S	3/2003	Pinchot	
D475,096	S *	5/2003	Manville	D21/488
D485,286	S	1/2004	Pinchot	
D494,198	S	8/2004	Pinchot	
D496,377	S	9/2004	Pinchot	
D497,376	S	10/2004	Pinchot	
D523,452	S	6/2006	Pinchot	
D531,197	S	10/2006	Pinchot	
D534,562	S	1/2007	Pinchot	
D550,783	S *	9/2007	Glickman	D21/488
2001/0008642	A1	7/2001	Meyer	
2004/0022886	A1	2/2004	Sagar	

FOREIGN PATENT DOCUMENTS

EP	000556022	8/1993
EP	556022-01/04	8/1993

EP 556030-01/04 8/1993

OTHER PUBLICATIONS

U.S. Appl. No. 11/062,220, filed Feb. 18, 2005, Pinchot.
 U.S. Appl. No. 29/242,613, filed Nov. 10, 2005, Pinchot.
 U.S. Appl. No. 29/242,779, filed Nov. 15, 2005, Pinchot.
 U.S. Appl. No. 29/242,881, filed Nov. 15, 2005, Pinchot.
 U.S. Appl. No. 29/263,182, filed Jul. 14, 2006, Pinchot.
 U.S. Appl. No. 29/263,183, filed Jul. 14, 2006, Pinchot.
 U.S. Appl. No. 29/263,184, filed Jul. 14, 2006, Pinchot.
 U.S. Appl. No. 29/263,185, filed Jul. 14, 2006, Pinchot.
 U.S. Appl. No. 29/263,364, filed Jul. 14, 2006, Pinchot.
 U.S. Appl. No. 11/651,063, filed Jan. 8, 2007, Pinchot.
 U.S. Appl. No. 29/272,847, filed Feb. 20, 2007, Pinchot.
 U.S. Appl. No. 29/285,075, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,076, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,077, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,078, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,079, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,080, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,081, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,082, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,083, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,084, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/295,092, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,094, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,095, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,096, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,098, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,099, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,100, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,108, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,101, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,109, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,110, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,111, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,112, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,115, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,116, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,127, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,128, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,130, filed Mar. 21, 2007, Pinchot.
 U.S. Appl. No. 29/285,131, Mar. 21, 2007, Pinchot.
 PCT/US06/005731, Feb. 17, 2006.
 PCT/US07/000300, Jan. 8, 2007.

* cited by examiner

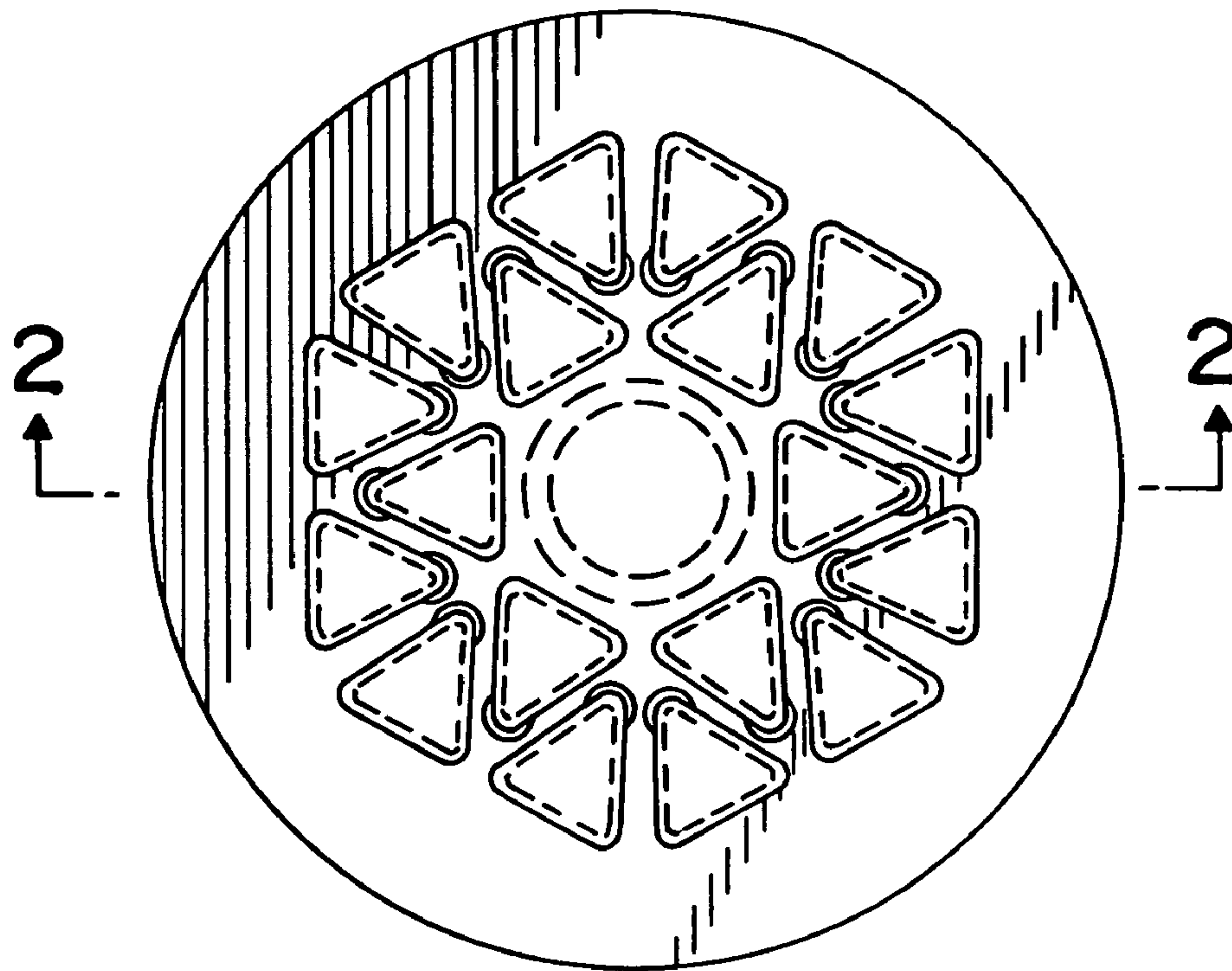


FIG. 1



FIG. 2

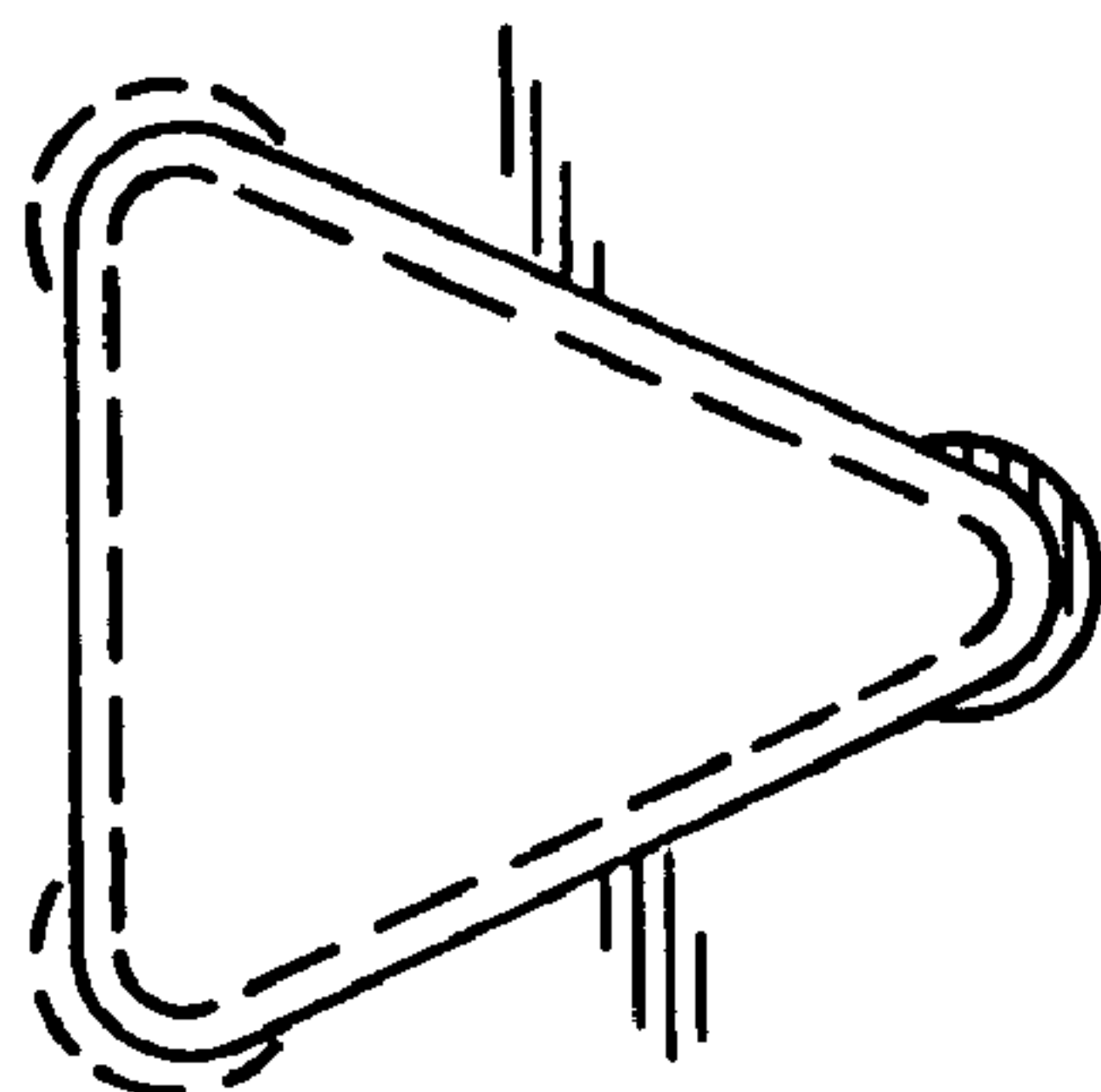


FIG. 3