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

(10) **Patent No.:** **US D751,242 S**
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- (54) **BEACON REFLECTOR OPTIC**
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- (52) **U.S. Cl.**
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- (58) **Field of Classification Search**
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CPC F41C 27/00; F41C 33/0254; G02B 5/045; G02B 5/189; F21S 8/00; F21S 8/03; F21S 8/026; F21S 8/02; F21S 8/003; F21S 8/043; F21S 8/06; F21S 8/04; F21V 7/005; F21V 15/01; F21V 15/04; F21V 25/00; F21V 3/02; F21V 1/00; G02F 2001/133607; F21Y 2103/00
See application file for complete search history.

- (56) **References Cited**
U.S. PATENT DOCUMENTS
247,589 A * 9/1881 Wheeler F21V 7/04 362/350
D39,902 S * 3/1909 Marlow D11/121
D42,583 S * 6/1912 Morgan D26/81
D43,114 S * 10/1912 Schepmoes D26/88
D62,926 S * 8/1923 Weber D26/134

- 1,626,498 A * 4/1927 Bailey F21V 7/04 362/350
- D79,044 S * 7/1929 Ohm D26/91
- D79,375 S * 9/1929 Lazerson D26/88
- D80,493 S * 2/1930 Rosenblatt D26/91
- D84,764 S * 7/1931 Stange D26/88
- 1,868,692 A * 7/1932 Bruckmann F21V 1/00 362/357
- D89,305 S * 2/1933 Hale D26/88
- 1,923,555 A * 8/1933 Provenzano F21V 1/00 362/358
- D91,100 S * 11/1933 Cole D26/134

(Continued)

OTHER PUBLICATIONS

Super RGBW Light, image post date Jul. 23, 2012, site visited Nov. 28, 2015, (online), <<http://ttere3.blogspot.com/2012/07/super-rgbw-light.html>>.*

(Continued)

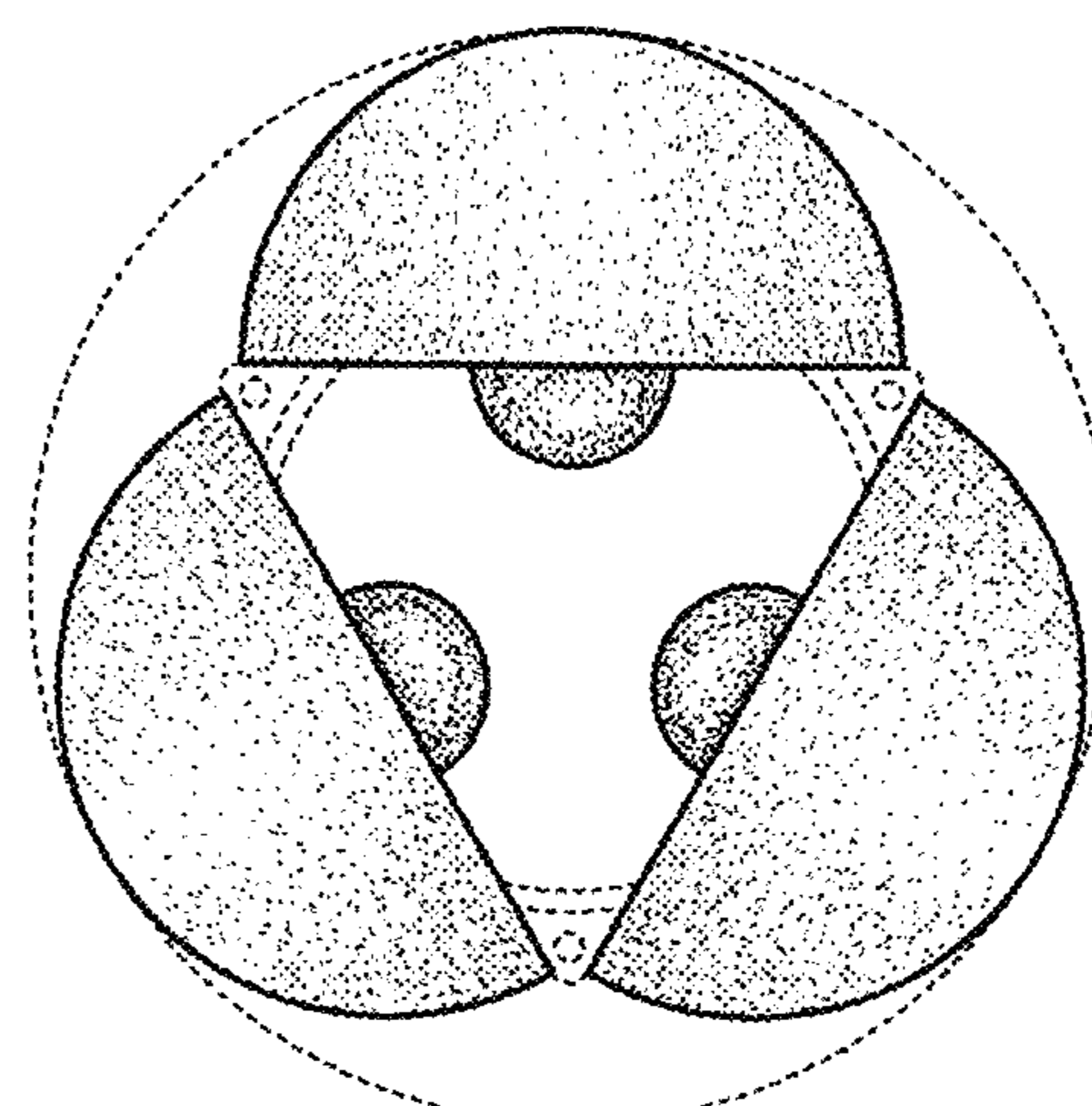
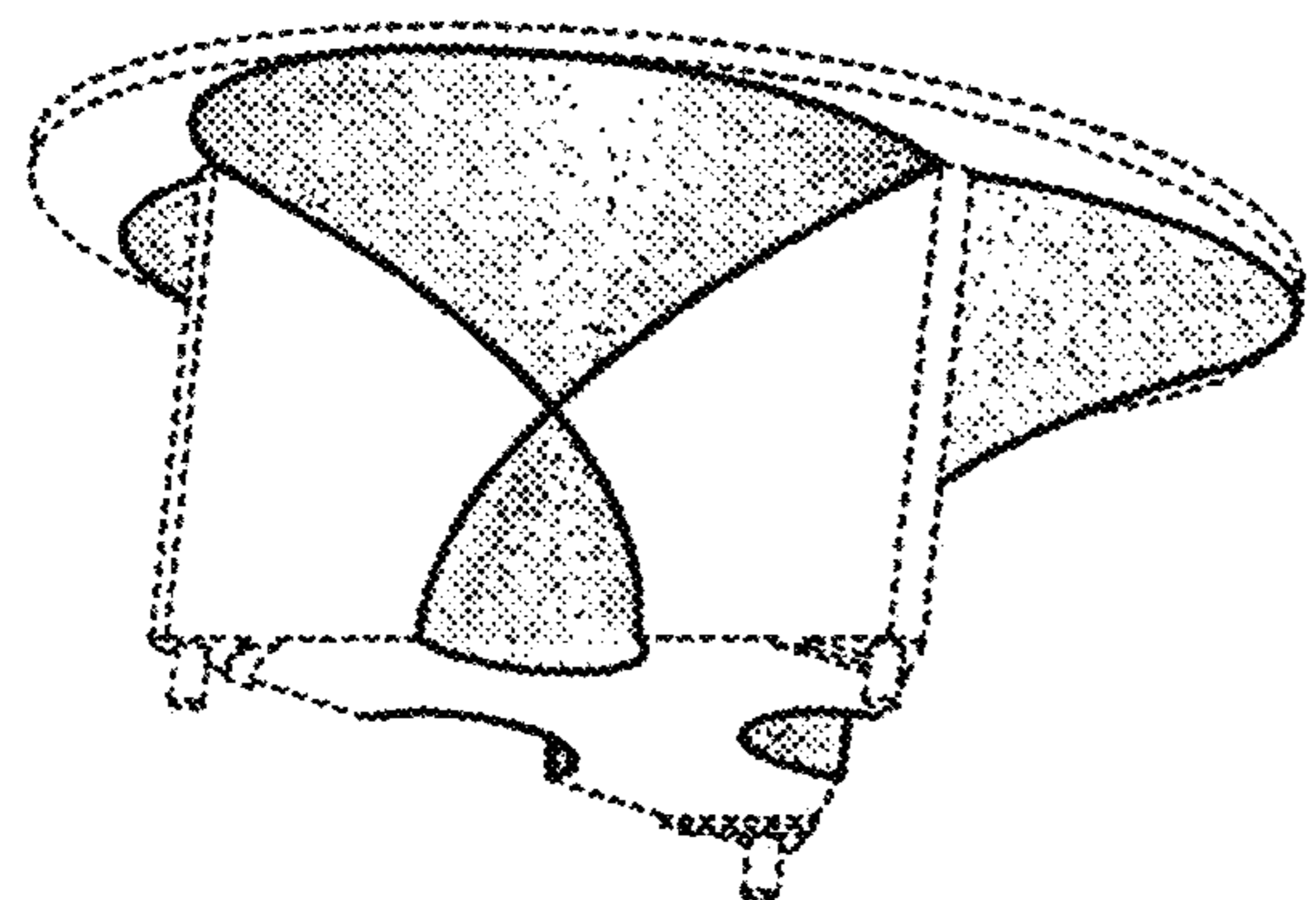
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(57) **CLAIM**
The ornamental design for the beacon reflector optic, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a beacon reflector optic; FIG. 2 is a top view of the beacon reflector optic; FIG. 3 is a bottom view of the beacon reflector optic; FIG. 4 is a right side view of the beacon reflector optic; FIG. 5 is a left side view of the beacon reflector optic; FIG. 6 is a front view of the beacon reflector optic; and, FIG. 7 is a rear view of the beacon reflector optic. The broken lines illustrating the beacon reflector forms no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

- D95,521 S * 5/1935 Laxer D26/136
D103,953 S * 4/1937 Pollock D11/125
D109,018 S * 3/1938 Janssen D26/136
D110,173 S * 6/1938 Donchian D26/130
D116,725 S * 9/1939 Saaf D26/128
D128,364 S * 7/1941 Cruze D26/108
D163,478 S * 5/1951 Poerner D26/81
D166,894 S * 5/1952 Whitney D11/142
2,973,447 A * 2/1961 Aicher H01J 61/33
313/493
D191,678 S * 10/1961 Kaufmann D26/131
D197,379 S * 1/1964 Rentz D26/128
D197,859 S * 3/1964 Harper D26/152
3,178,569 A * 4/1965 Martin F21S 8/033
362/296.05
D210,553 S * 3/1968 Wilkerson D26/94
D228,569 S * 10/1973 Hermanson D11/125
D237,003 S * 9/1975 Jahandideh 52/DIG. 10
D239,460 S * 4/1976 Schacht D11/155
D240,852 S * 8/1976 Jacobsen D26/86
D257,643 S * 12/1980 Zurcher D26/85
D268,134 S * 3/1983 Zurcher D26/131
4,585,468 A * 4/1986 Marcucci C03B 23/065
65/277
D293,723 S * 1/1988 Buttner D26/129
4,825,125 A * 4/1989 Lagushenko H01J 61/33
313/493
D302,048 S * 7/1989 Dolfi D26/103
D302,331 S * 7/1989 Dolfi D26/103
D325,998 S * 5/1992 Shaw D26/131
D390,682 S * 2/1998 Lawrence D26/73
D394,728 S * 5/1998 Alexander D26/109
D407,663 S * 4/1999 MacDonald D11/121
D468,475 S * 1/2003 De Lucchi D26/90
D474,303 S * 5/2003 Huang D26/123
D480,171 S * 9/2003 Alduby D26/118
D495,821 S * 9/2004 Huang D26/123
D507,844 S * 7/2005 Friedman D26/118
D531,344 S * 10/2006 House D26/118
D547,695 S * 7/2007 Lach D11/141
D565,237 S * 3/2008 Royce D26/128
D566,880 S * 4/2008 Silver D26/118
D578,677 S * 10/2008 Huang D26/28
D592,793 S * 5/2009 Chandler D26/141
D596,779 S * 7/2009 Silver D26/88
D597,245 S * 7/2009 Trumble D26/90
D611,649 S * 3/2010 Chen D26/128
D615,696 S * 5/2010 Hecht D26/122
D617,036 S * 6/2010 Trumble D26/93
D630,792 S * 1/2011 Schwinkowski D26/85
D632,827 S * 2/2011 Sabernig D26/93
D634,466 S * 3/2011 Wauters D26/88
D638,570 S * 5/2011 Verelst D26/90
D643,967 S * 8/2011 Sternotte D26/128
D646,426 S * 10/2011 Wolk D26/85
D652,163 S * 1/2012 Tsai D26/118
D654,616 S * 2/2012 Mechanic D26/110
D656,661 S * 3/2012 Tsai D26/118
D660,501 S * 5/2012 Martin D26/82
D669,806 S * 10/2012 Stein D10/114.2
D669,807 S * 10/2012 Stein D10/114.2
D674,528 S * 1/2013 Paz D26/72
D679,847 S * 4/2013 Arnold D26/70
D681,256 S * 4/2013 Chilton D26/88
D684,298 S * 6/2013 Liang D26/118
D684,492 S * 6/2013 Chen D10/114.1
D698,071 S * 1/2014 Messiaen D26/74
D702,873 S * 4/2014 Yu D26/123
D708,383 S * 7/2014 Miyake D26/118
D717,987 S * 11/2014 Prommel D26/70
D719,292 S * 12/2014 Voss D26/118
D719,293 S * 12/2014 Voss D26/118
D723,205 S * 2/2015 Prommel D26/70
D728,848 S * 5/2015 Reyes D26/118
D729,434 S * 5/2015 Cugini D26/110
D731,104 S * 6/2015 Miyake D26/88
D738,563 S * 9/2015 Martins D26/118
D741,537 S * 10/2015 Bakker D26/118
D743,091 S * 11/2015 Degrandis D26/122
D743,092 S * 11/2015 Paulsen D26/142
2009/0196050 A1 * 8/2009 Chiang F21V 1/12
362/311.13
2010/0090605 A1 * 4/2010 Nevins F03D 9/007
315/159

OTHER PUBLICATIONS

Radar Reflector, image post date 2013, site visited Nov. 28, 2015, (online), <<http://web2.clarkson.edu/projects/cosi/sp2013/students/bestt>>.*

Inflatable Radar Reflector, image post date Mar. 10, 2013, site visited Nov. 28, 2015, (online), <<http://web.archive.org/web/20130310063308/http://www.seamarshall-us.com/marine-safety-products/marine-safety-passive-active-reflectors.html>>.*

Rotating Beacon Light, image post date 2009, site visited Nov. 28, 2015, (online), <<http://www.cesco.com/b2c/product/Edwards-52G-N5-40WH-Halogen-Rotating-Beacon-Light/109165>>.*

* cited by examiner

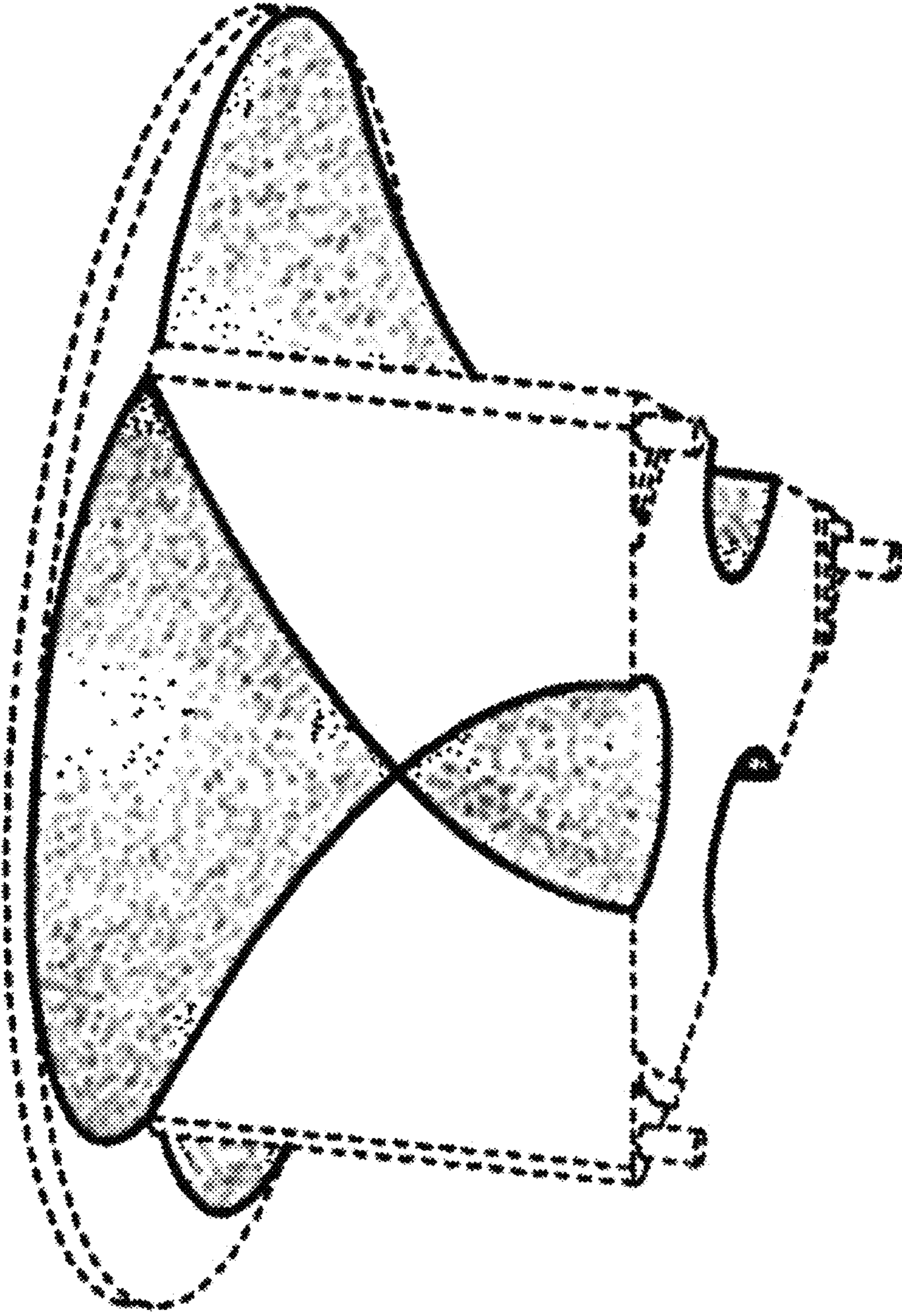


Figure 1

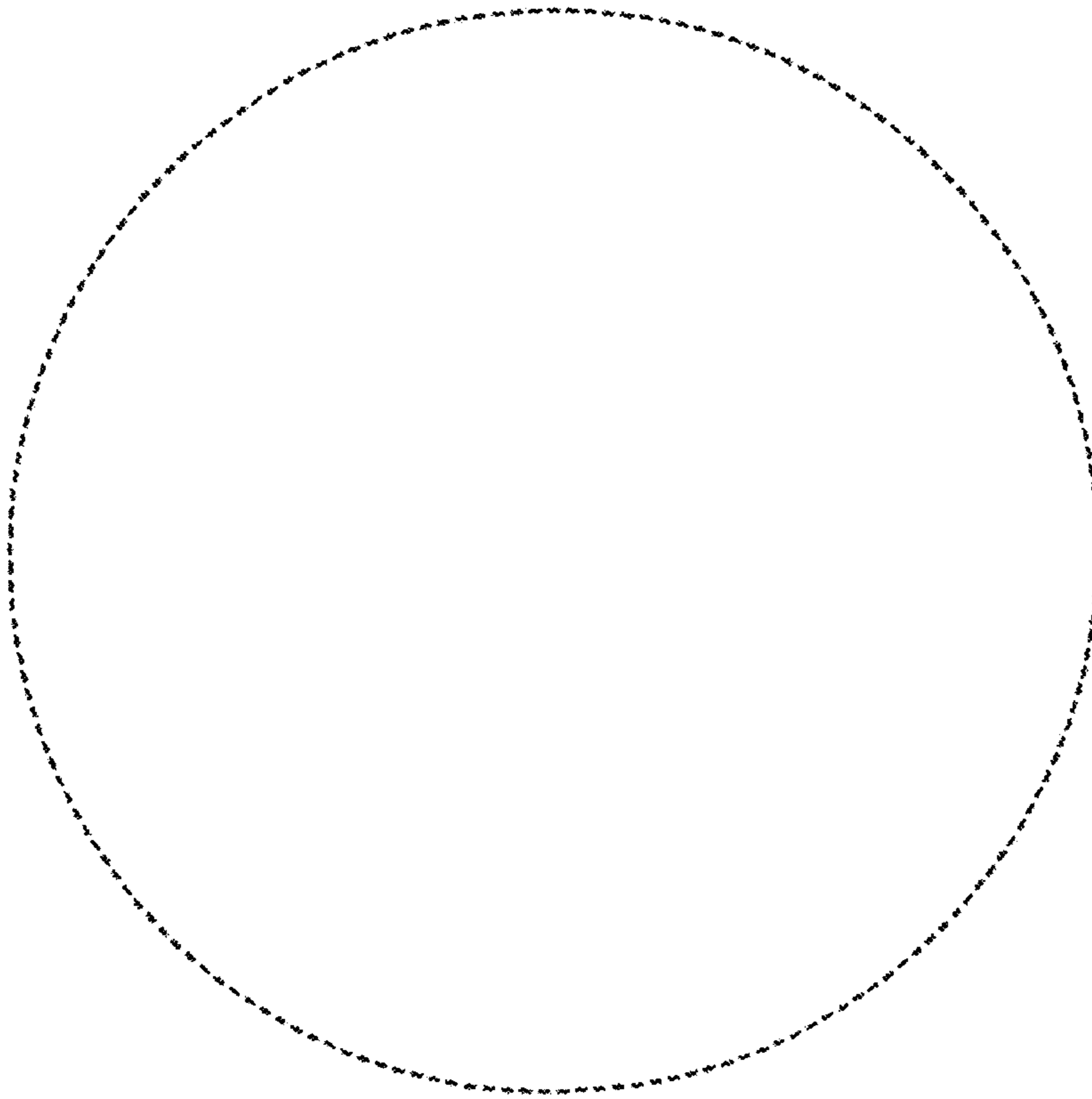


Figure 2

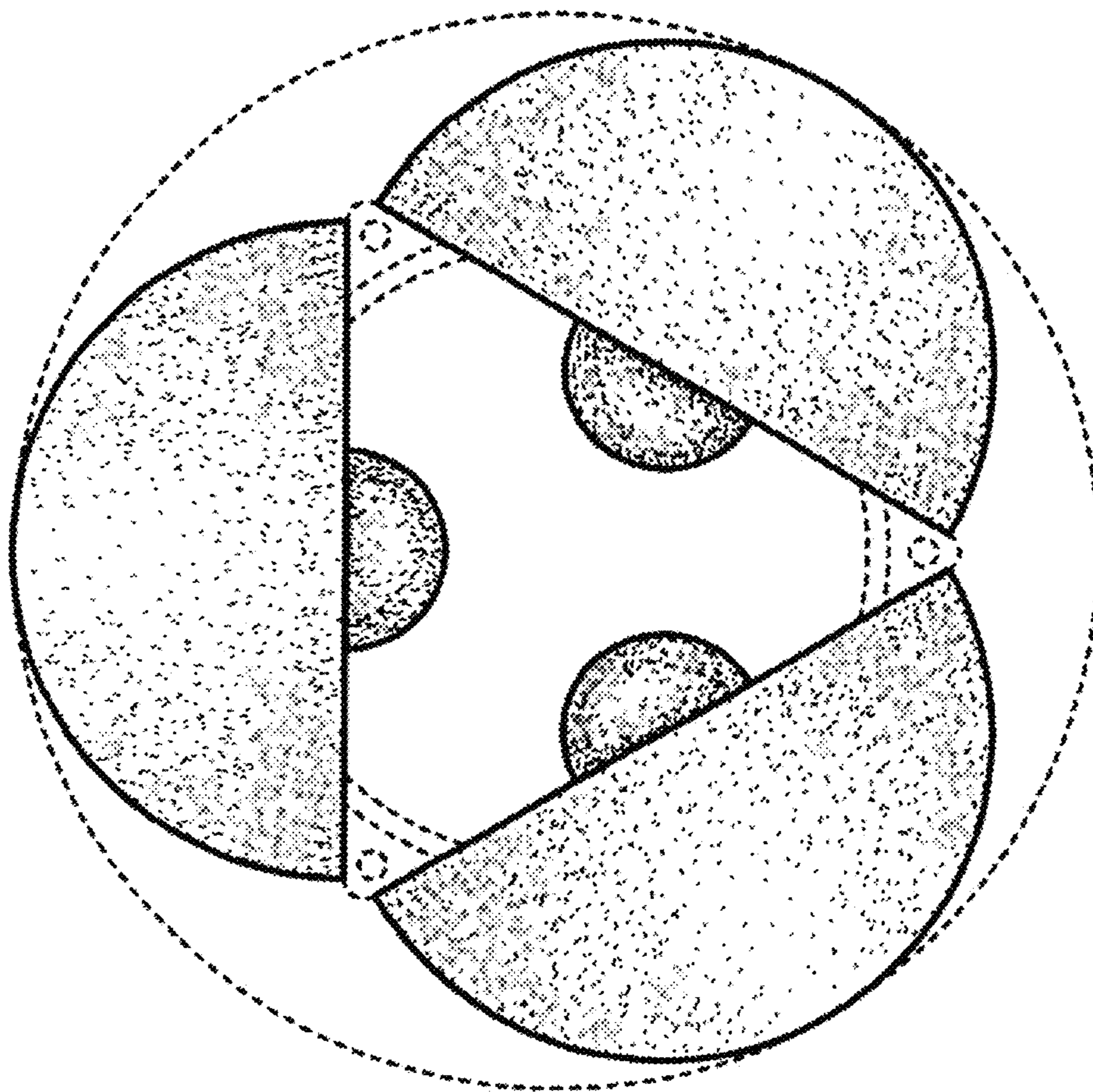


Figure 3

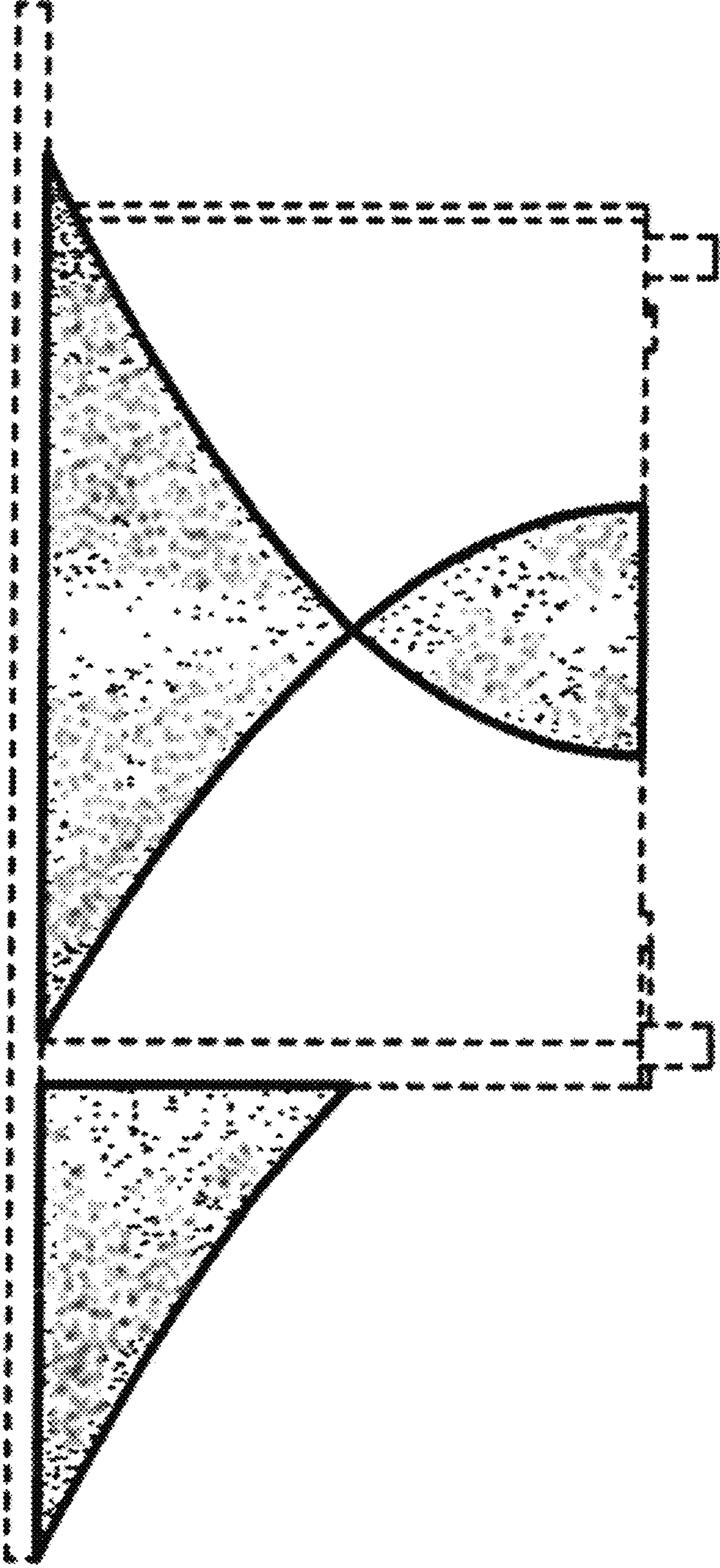


Figure 4

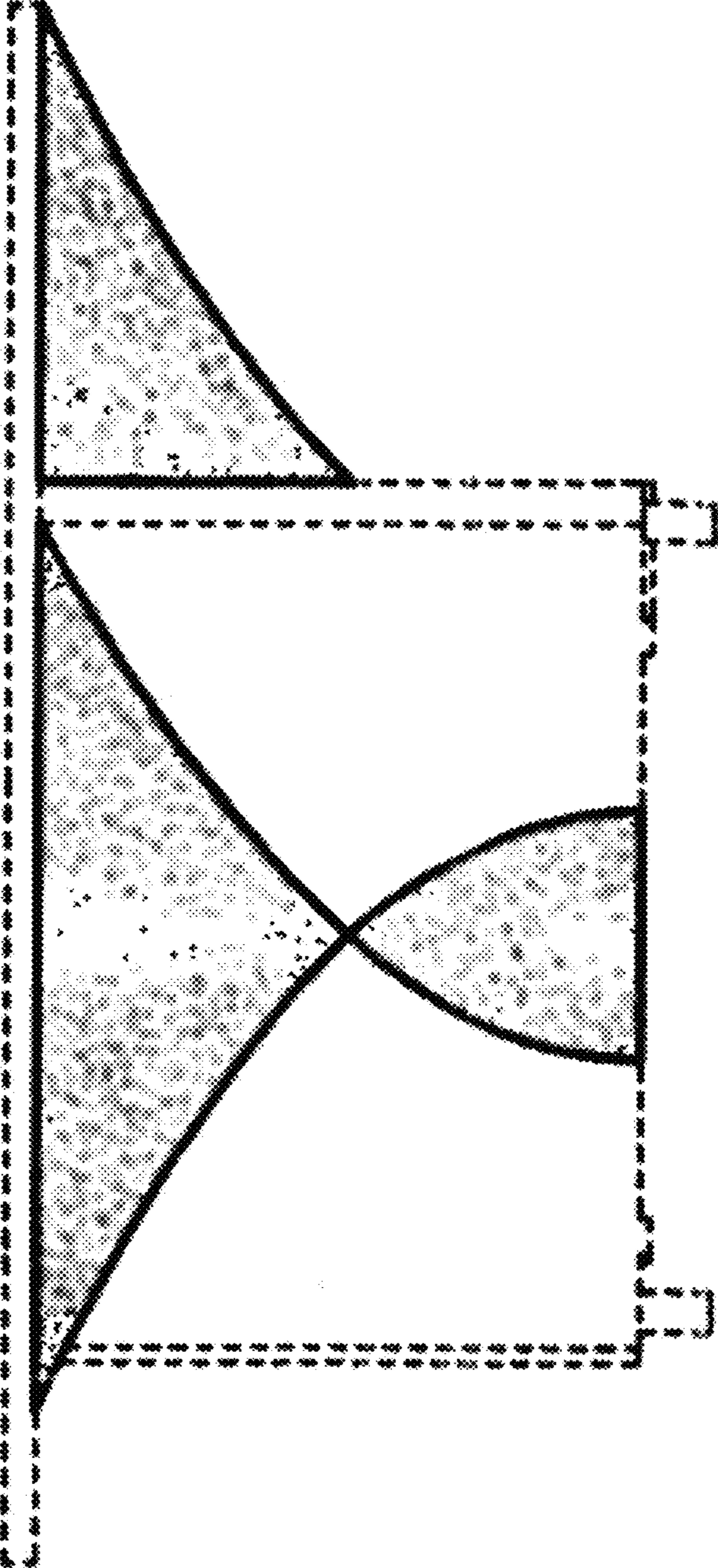


Figure 5

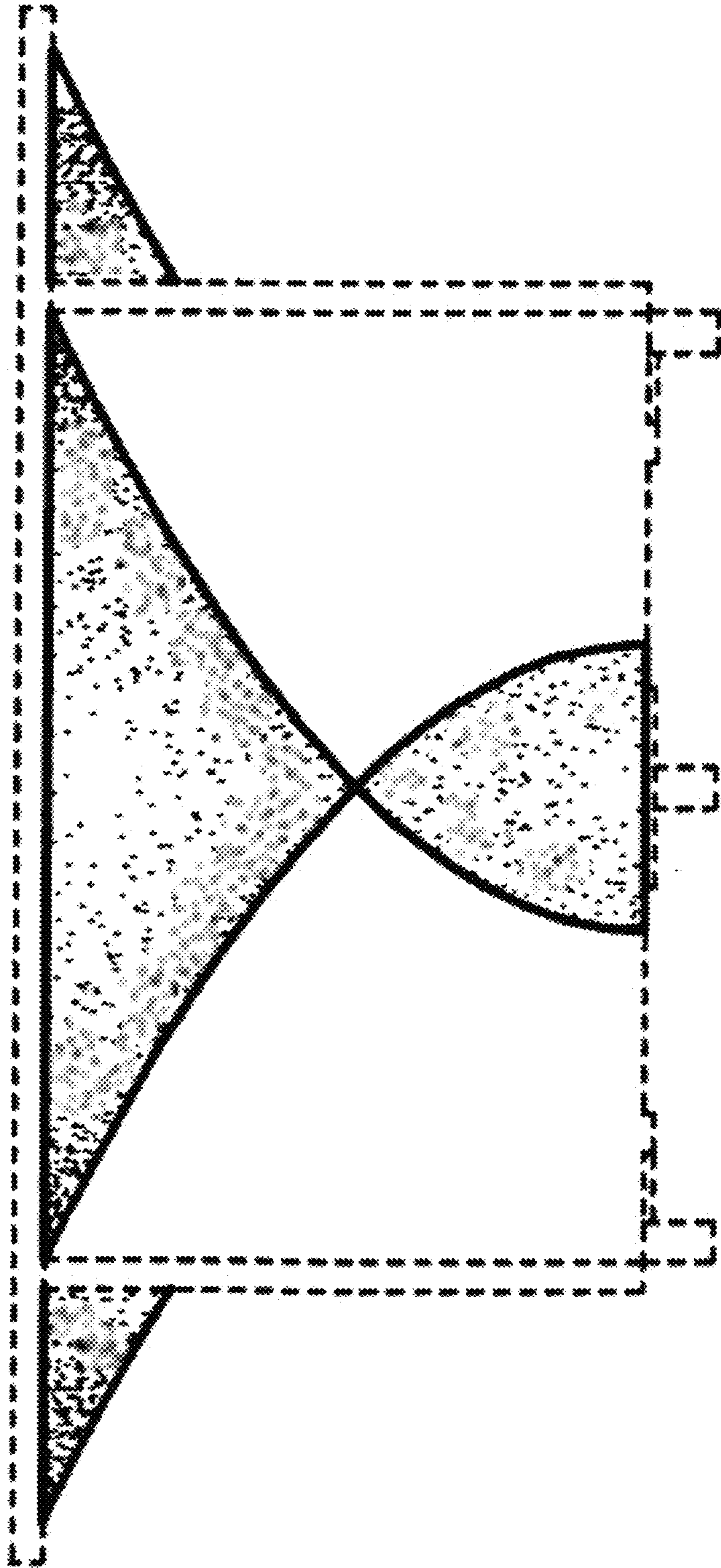


Figure 6

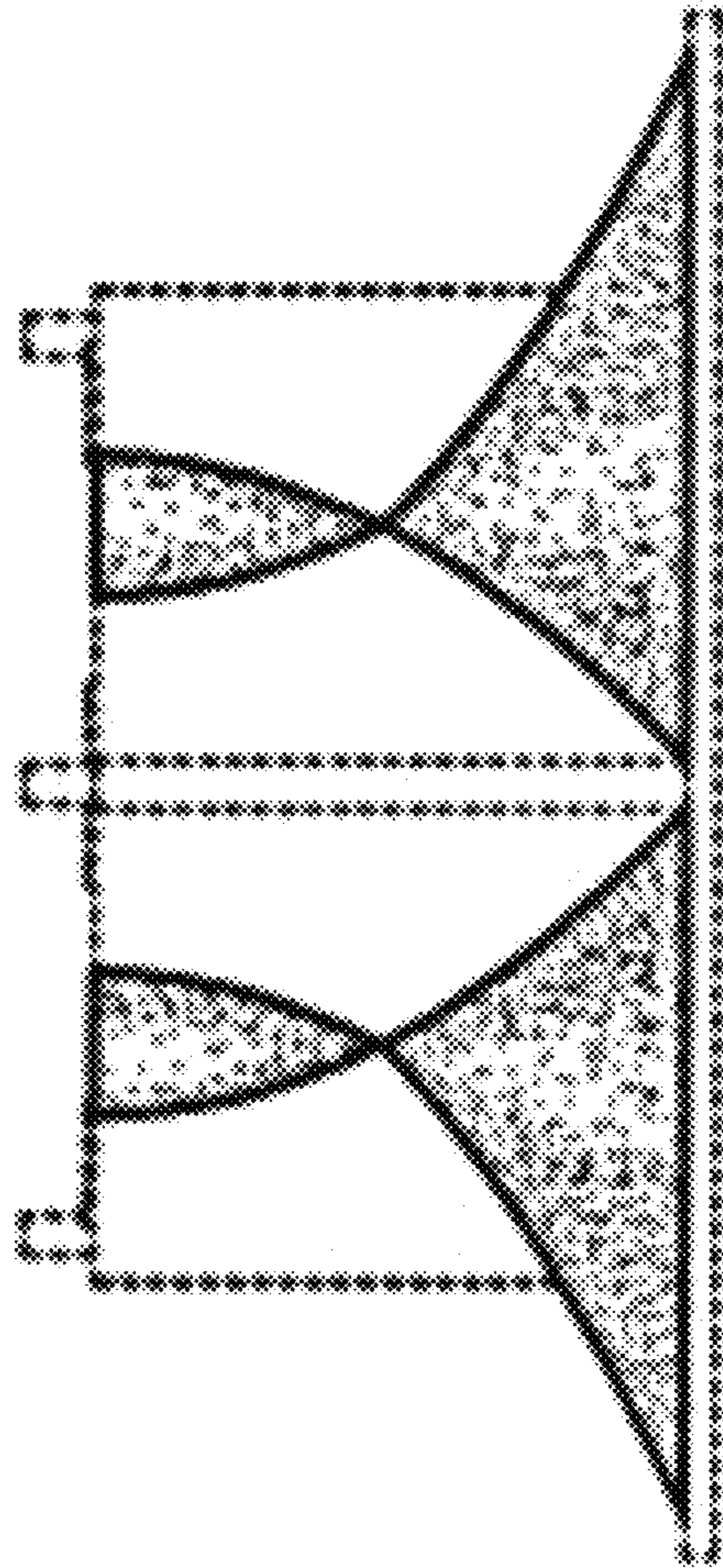


Figure 7