



US00D847335S

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

(10) **Patent No.:** **US D847,335 S**  
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(54) **GUIDEWIRE**

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(JP)

(\*\*) Term: **15 Years**

(21) Appl. No.: **29/553,242**

(22) Filed: **Jan. 29, 2016**

(30) **Foreign Application Priority Data**

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(51) **LOC (11) Cl.** ..... **24-02**

(52) **U.S. Cl.**  
USPC ..... **D24/140**

(58) **Field of Classification Search**

USPC ..... D24/107, 128, 133, 140, 231, 232;  
D8/14; 248/302-304; 600/47, 103, 108,  
600/164, 264, 585; D2/978

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(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D287,811 S \* 1/1987 Walla ..... D8/14  
5,147,317 A \* 9/1992 Shank ..... A61M 25/09  
600/434

(Continued)

**FOREIGN PATENT DOCUMENTS**

JP D1348154 S 1/2009

**OTHER PUBLICATIONS**

Med Gadget—Opsens OptoWire II, announced Mar. 23, 2016  
[online], [site visited Mar. 16, 2018]. Available from internet, URL:

<<https://www.medgadget.com/2016/03/opsens-optowire-ii-for-fractional-flow-reserve-measurement-fda-cleared.html>>.\*

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(57) **CLAIM**

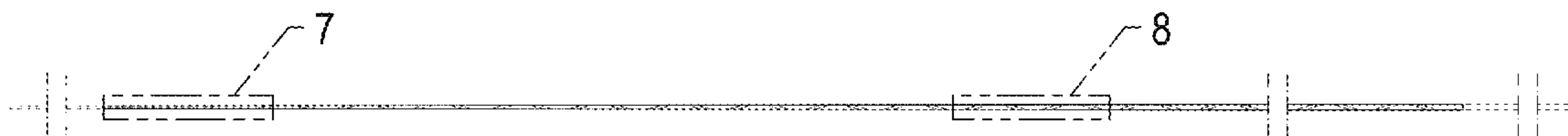
The ornamental design for a guidewire, as shown and described.

**DESCRIPTION**

FIG. 1 is a front view of the guidewire;  
FIG. 2 is a rear view thereof;  
FIG. 3 is a top view thereof;  
FIG. 4 is a bottom view thereof;  
FIG. 5 is an enlarged left-side view thereof;  
FIG. 6 is an enlarged right-side view thereof;  
FIG. 7 is an enlarged view of a portion of FIG. 1 within a dashed box labeled “7;”  
FIG. 8 is an enlarged view of a portion of FIG. 1 within a dashed box labeled “8;”  
FIG. 9 is an enlarged view of a portion of FIG. 2 within a dashed box labeled “9;”  
FIG. 10 is an enlarged view of a portion of FIG. 2 within a dashed box labeled “10;”  
FIG. 11 is an enlarged view of a portion of FIG. 3 within a dashed box labeled “11;”  
FIG. 12 is an enlarged view of a portion of FIG. 3 within a dashed box labeled “12;”  
FIG. 13 is an enlarged view of a portion of FIG. 4 within a dashed box labeled “8;” and,  
FIG. 14 is an enlarged view of a portion of FIG. 4 within a dashed box labeled “14.”

The broken lines depict environmental subject matter only and form no part of the claimed design. The dash-dot lines represent break lines indicating that the length of the area cut by the break lines may vary, and form no part of the claimed design. The dashed boxes represent areas that are shown in

(Continued)



enlarged views in other figures (denoted by the number of the box), and form no part of the claimed design.

**1 Claim, 5 Drawing Sheets**

**(58) Field of Classification Search**

CPC ..... A61M 25/09; A61M 25/09033; A61M 25/0041; A61M 2025/09175; A61M 2025/09133; A61M 2025/0915; A61M 2025/09083

See application file for complete search history.

**(56) References Cited**

U.S. PATENT DOCUMENTS

5,379,779	A *	1/1995	Rowland	.....	A61M 25/09 600/585
5,840,046	A *	11/1998	Deem	.....	A61M 25/09 600/585
D406,692	S *	3/1999	Shin	.....	D2/978
5,920,970	A *	7/1999	Coblentz	.....	A43C 9/00 2/270
6,669,652	B2 *	12/2003	Anderson	.....	A61M 25/09 600/434
6,716,183	B2 *	4/2004	Clayman	.....	A61M 25/09 600/585
D561,542	S *	2/2008	Haas	.....	D8/14
D611,596	S *	3/2010	Kousai	.....	D24/130
8,303,519	B2 *	11/2012	Yunoki	.....	A61M 25/09 600/101
8,540,648	B2	9/2013	Uihlein		
D701,305	S *	3/2014	Greco	.....	D24/133
D718,041	S *	11/2014	McAndrew	.....	D2/978
D742,000	S *	10/2015	Kanazawa	.....	D24/140
D755,965	S *	5/2016	Kawahara	.....	D24/140
D760,386	S *	6/2016	Watanabe	.....	D24/130
9,586,025	B2 *	3/2017	Salahieh	.....	A61B 1/00135

2003/0088195	A1 *	5/2003	Vardi	.....	A61B 5/1076 600/585
2004/0215109	A1 *	10/2004	Pingleton	.....	A61M 25/09 600/585
2005/0148902	A1 *	7/2005	Minar	.....	A61L 31/10 600/585
2008/0097402	A1 *	4/2008	Hoganson	.....	A61M 25/0125 604/528
2014/0107624	A1 *	4/2014	Belleville	.....	A61M 25/09 604/528
2014/0378868	A1 *	12/2014	Griego	.....	A61M 25/09 600/585
2015/0032027	A1 *	1/2015	Lupton	.....	A61B 5/6851 600/585
2016/0114138	A1 *	4/2016	Jahrmarkt	.....	A61M 25/09 604/43
2017/0105794	A1 *	4/2017	Olson	.....	A61B 18/1492

OTHER PUBLICATIONS

Wayback Machine—Braided Catheter Tubing, announced Apr. 3, 2014 (dated via wayback machine) [online], [site visited Mar. 16, 2018]. Available from internet, URL: <<https://web.archive.org/web/20140403010319/http://www.putnamplastics.com/extrusions/braiding>>.\*

Wayback Machine—Asahi Meister 16, announced Jul. 14, 2017 (dated via wayback machine) [online], [site visited Mar. 16, 2018]. Available from internet, URL: <<https://web.archive.org/web/20170714053931/http://www.asahi-intecc.co.jp/en/medical/ivr/meister.html>>.\*

Wayback Machine—Micro Catheter, announced Jan. 17, 2013 (dated via wayback machine) [online], [site visited Mar. 16, 2018]. Available from internet, URL: <[https://web.archive.org/web/20130117003710/http://www.asahi-intecc.com/medical/international/product/mc\\_tor.php](https://web.archive.org/web/20130117003710/http://www.asahi-intecc.com/medical/international/product/mc_tor.php)>.\*

Sep. 2, 2016 Office Action issued in Korean Patent Application No. 30-2016-0001790.

\* cited by examiner

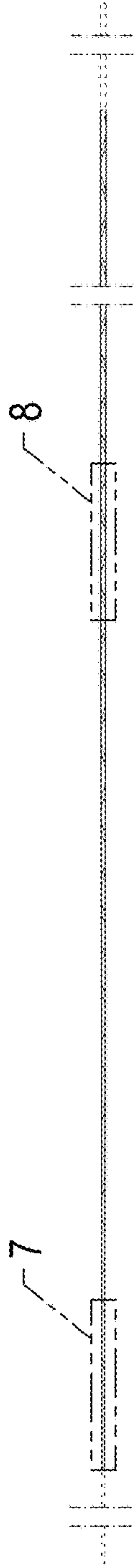


FIG. 1

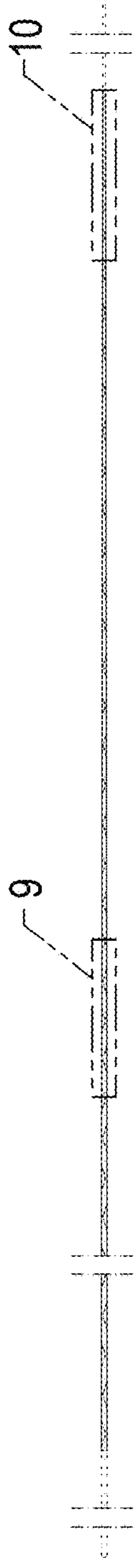


FIG. 2

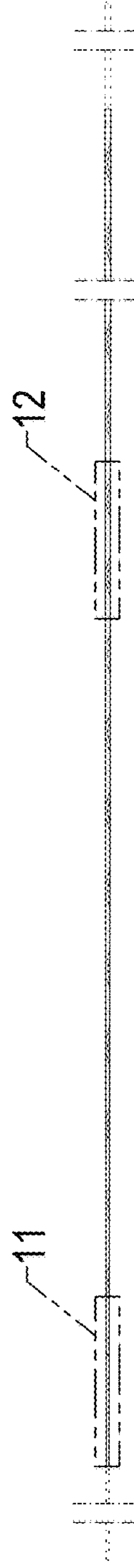


FIG. 3

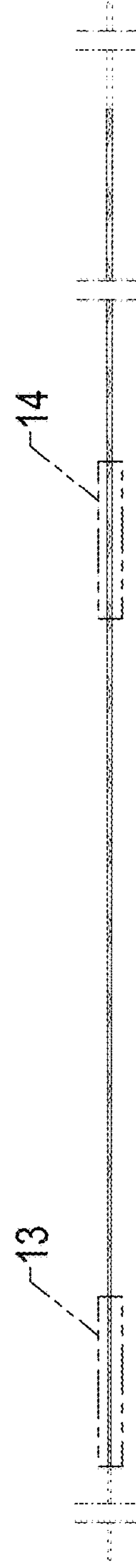


FIG. 4



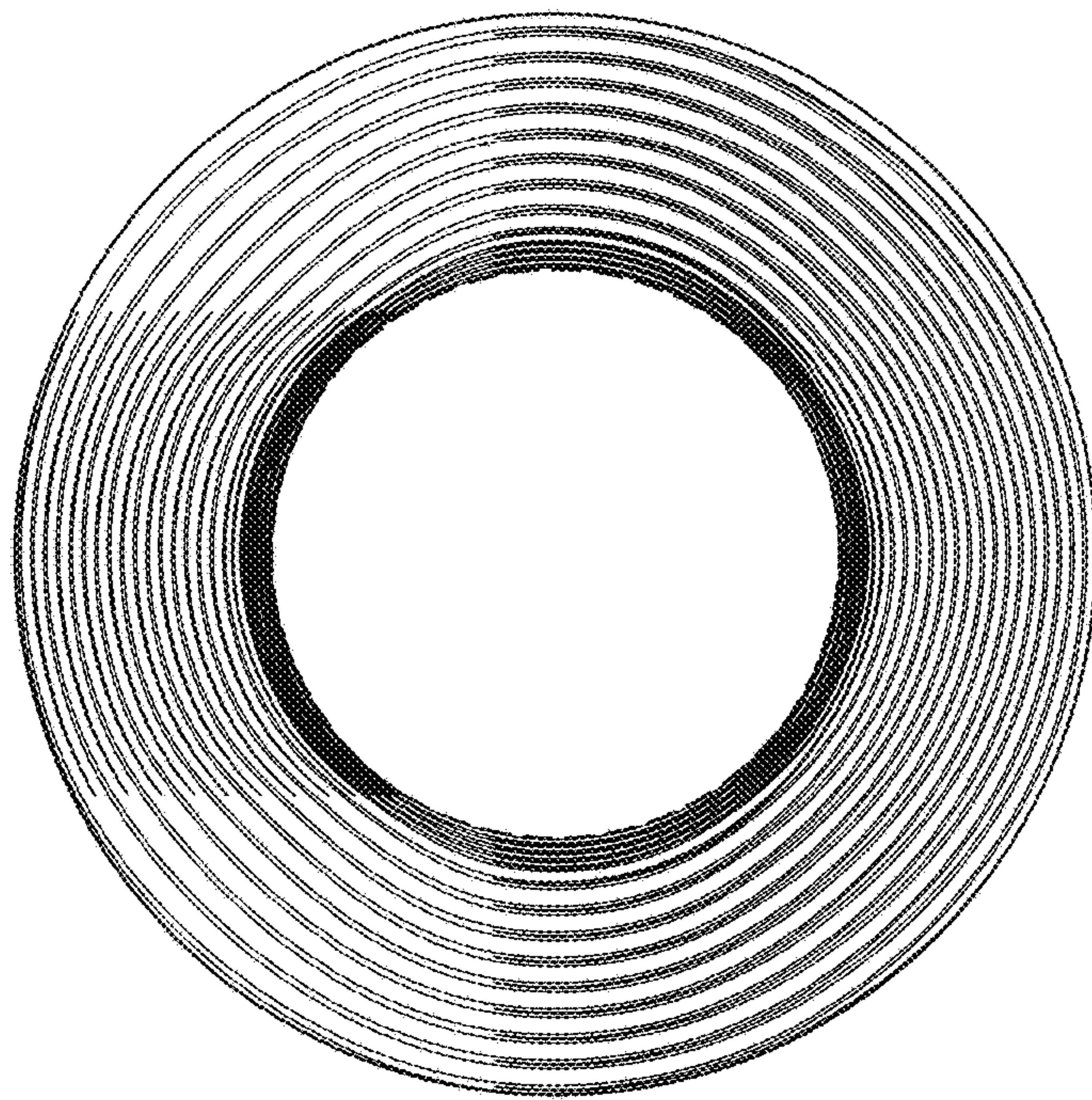


FIG. 5

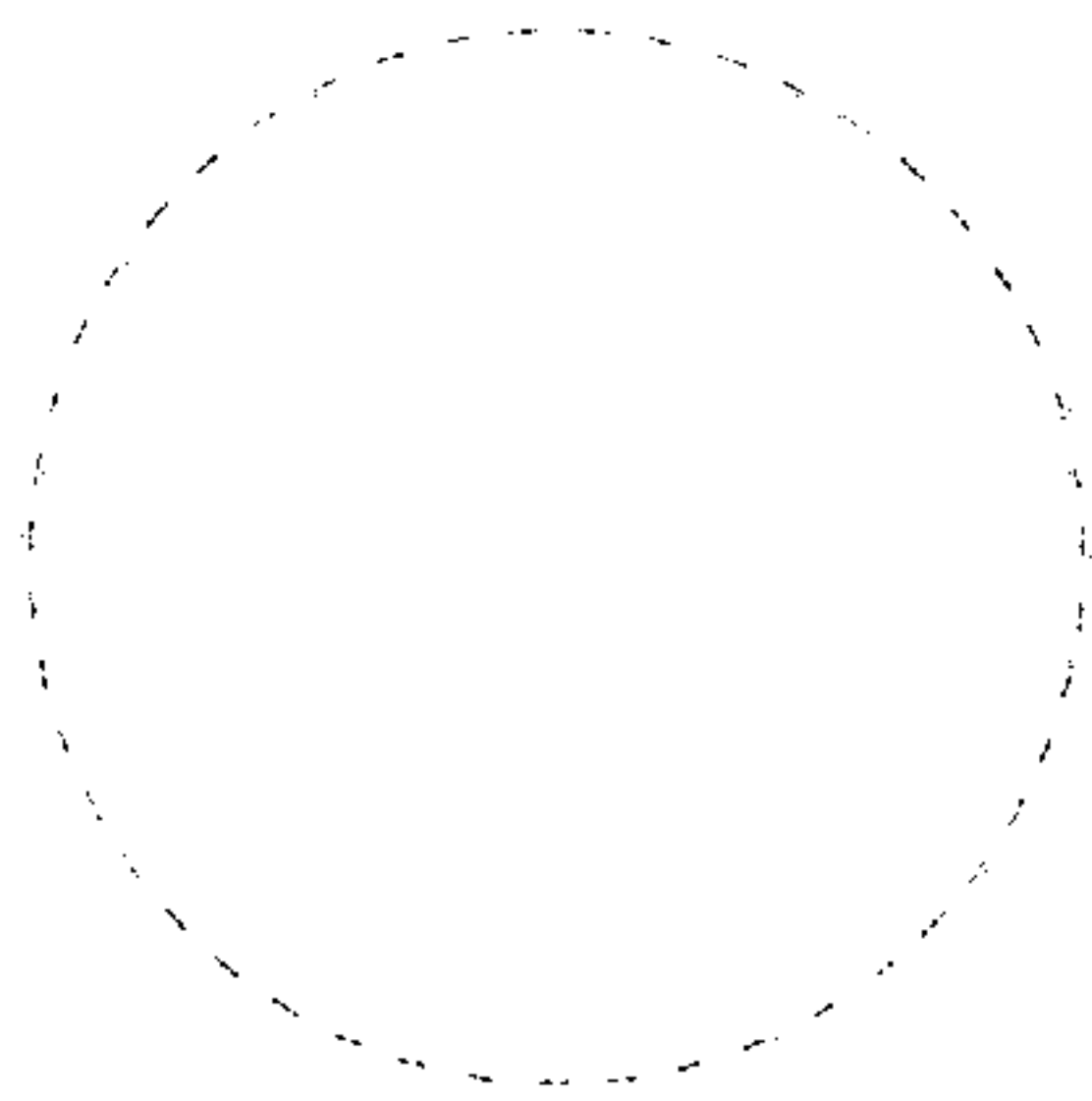


FIG. 6

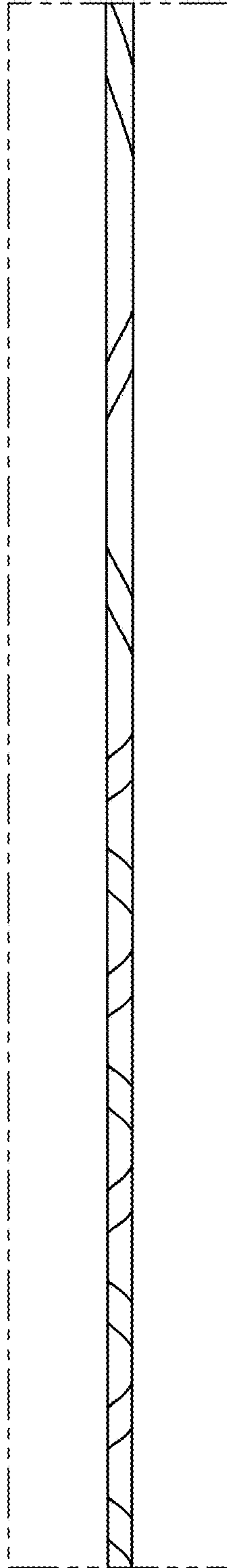


FIG. 7

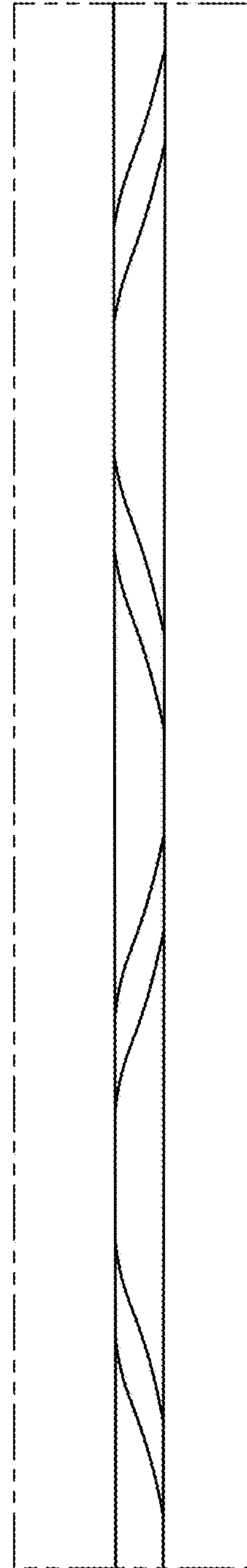


FIG. 8

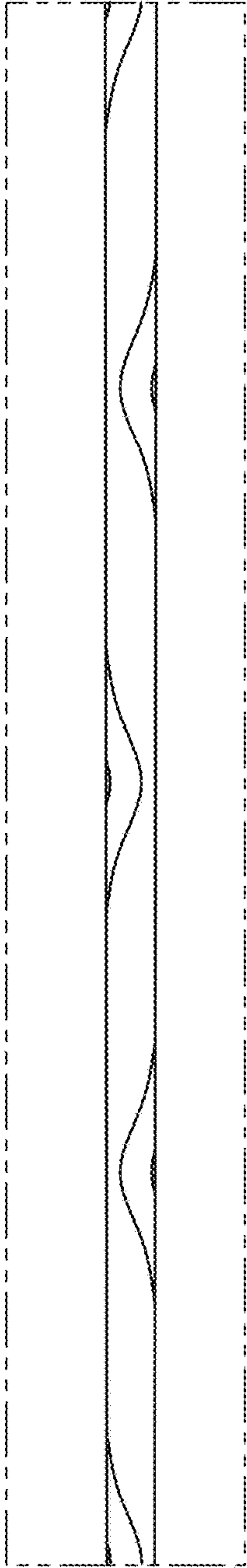


FIG. 9

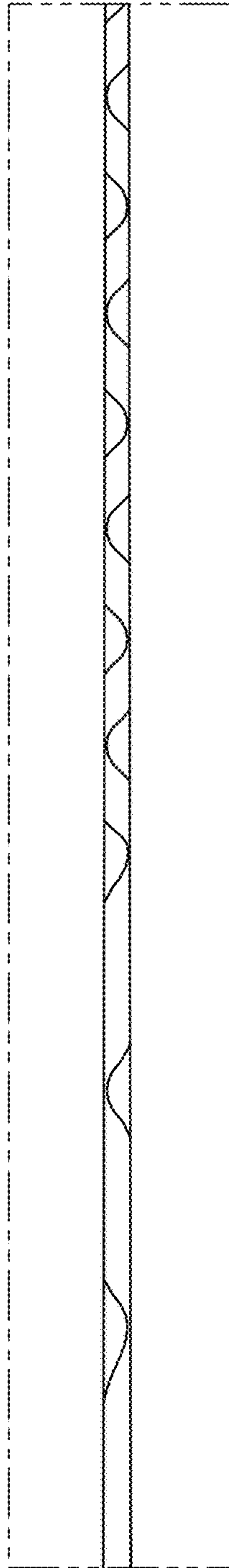


FIG. 10

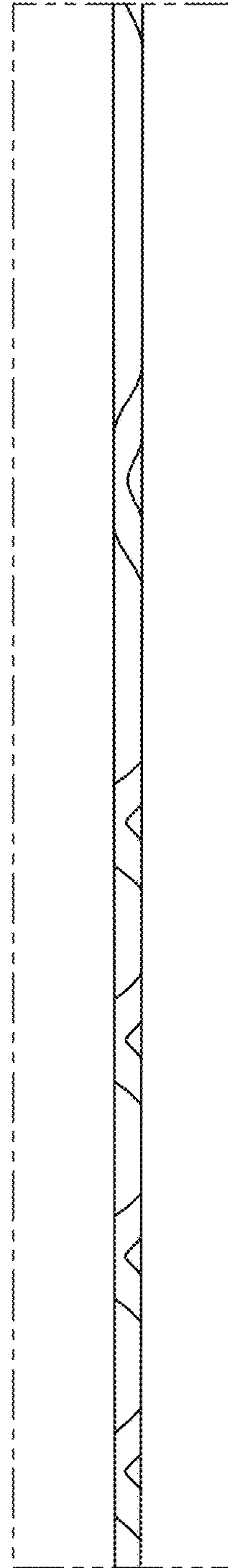


FIG. 11

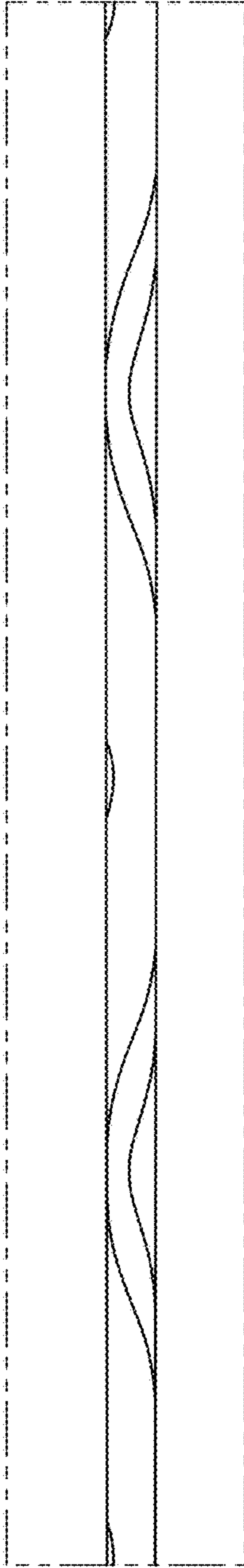


FIG. 12

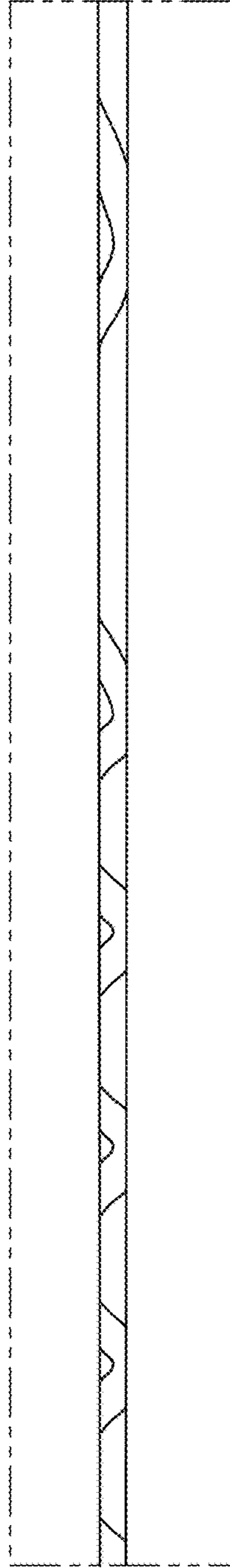


FIG. 13

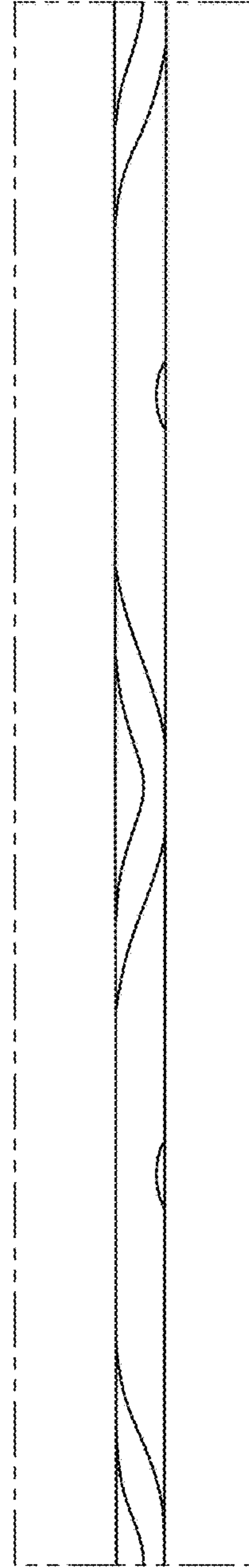


FIG. 14