

US00D755248S

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

(10) **Patent No.:** **US D755,248 S**
(45) **Date of Patent:** **** May 3, 2016**

- (54) **ROTARY VALVE SPRING**
- (71) Applicant: **VAZTEC, LLC**, Denver, NC (US)
- (72) Inventors: **Darrick Vaseleniuck**, Denver, NC (US);
David Vaseleniuck, Denver, NC (US)
- (73) Assignee: **Vaztec, LLC**, Denver, NC (US)
- (**) Term: **14 Years**
- (21) Appl. No.: **29/516,098**
- (22) Filed: **Jan. 29, 2015**
- (51) **LOC (10) Cl.** **15-01**
- (52) **U.S. Cl.**
USPC **D15/5**
- (58) **Field of Classification Search**
USPC D23/233-250; D15/1-7; 123/190.4,
123/190.1, 190.8, 190.2, 190.17, 80 BA,
123/90.17, 90.31, 90.6; 464/1, 2, 160;
D13/118, 114, 122, 199; 137/514,
137/512.1, 516.21, 516.23, 540, 637.3,
137/535; D28/55
CPC F01L 7/02; F02F 1/24; F16K 15/026;
F16K 3/085; F16K 15/023; F16K 15/028
See application file for complete search history.

D551,389	S	*	9/2007	Wittke-Kothe	.....	D28/55
D691,327	S	*	10/2013	Remy	.....	D28/55
D718,498	S	*	11/2014	Gu	.....	D28/55
2002/0148428	A1		10/2002	Pisano et al.		
2006/0150930	A1		7/2006	Swenson		
2011/0277719	A1		11/2011	Snow		

FOREIGN PATENT DOCUMENTS

EP 0099873 2/1984

OTHER PUBLICATIONS

Vorobiev, V., International Search Report for PCT/US2012/059506,
Dec. 24, 2012, Moscow, Russia.

* cited by examiner

Primary Examiner — Cynthia Ramirez
Assistant Examiner — Gino Colan

(74) *Attorney, Agent, or Firm* — Trego, Hines & Ladenheim,
PLC

(57) **CLAIM**

The ornamental design for a rotary valve spring, as shown and
described.

DESCRIPTION

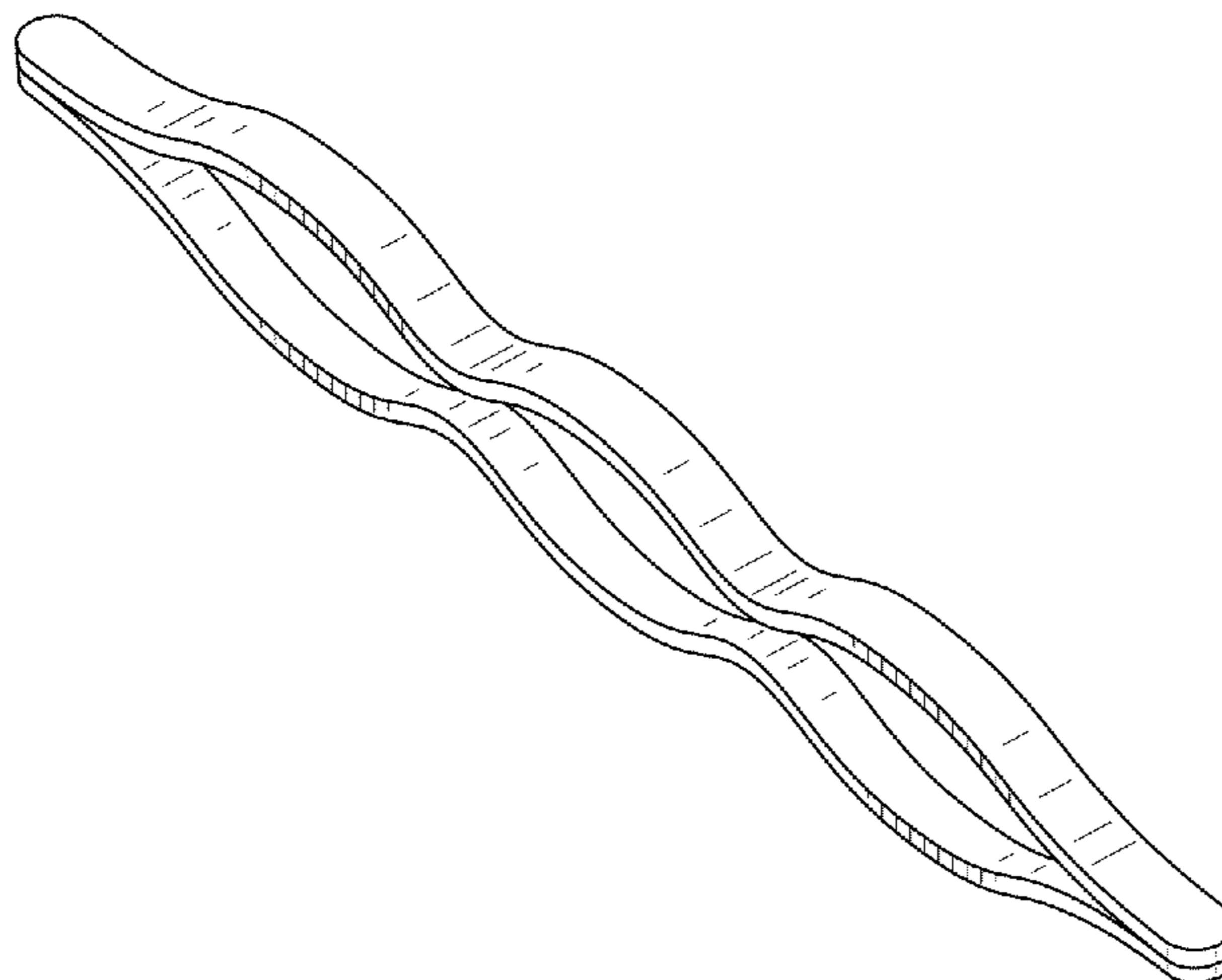
FIG. 1 is a perspective view of the rotary valve spring, showing my design;
FIG. 2 is a left side elevation of the rotary valve spring of FIG. 1;
FIG. 3 is a right side elevation of the rotary valve spring of FIG. 1;
FIG. 4 is a top view of the rotary valve spring of FIG. 1;
FIG. 5 is a bottom view elevation of the rotary valve spring of FIG. 1;
FIG. 6 is a front elevation of the rotary valve spring of FIG. 1;
and,
FIG. 7 is a rear elevation of the rotary valve spring of FIG. 1.

1 Claim, 1 Drawing Sheet

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,094,329	A	4/1914	Henderson		
1,669,376	A *	5/1928	Kirtlan	.....	B25B 27/26 29/221
1,794,061	A	2/1931	Culver		
1,815,612	A *	7/1931	Cataline	.....	F01L 1/162 251/337
3,602,205	A *	8/1971	Turkish	.....	F01L 1/462 123/90.43
4,036,184	A	7/1977	Guenther		
6,295,961	B1	10/2001	Carter		
6,308,677	B1	10/2001	Bohach		
6,341,767	B1 *	1/2002	Seale	.....	F01L 1/462 267/169
7,240,654	B2	7/2007	Verdial		



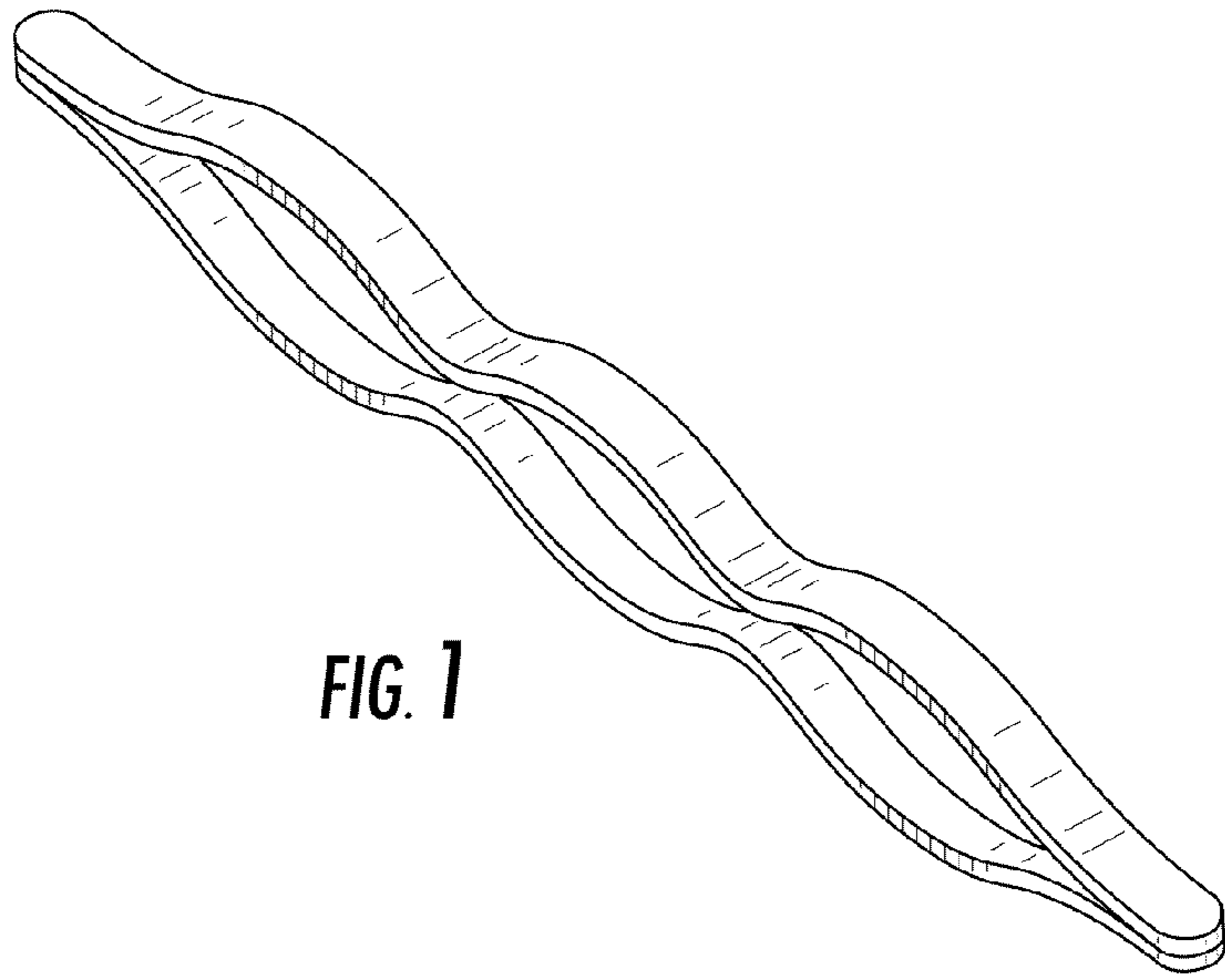


FIG. 1

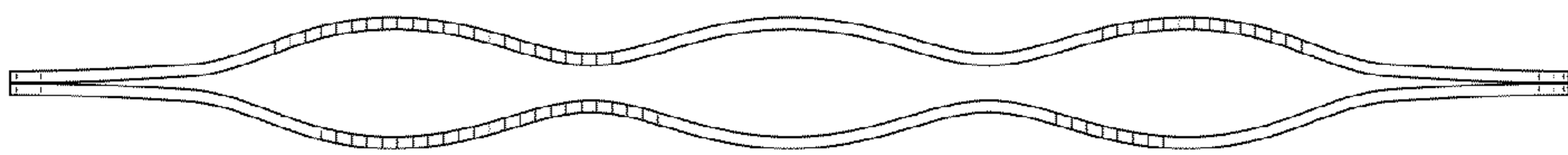


FIG. 2



FIG. 3

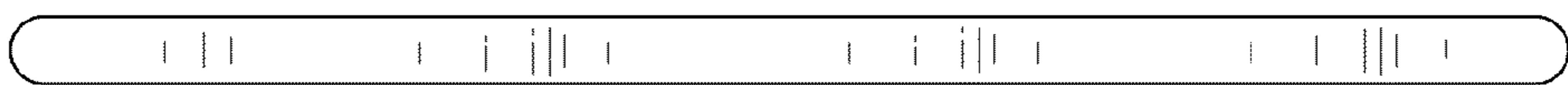


FIG. 4

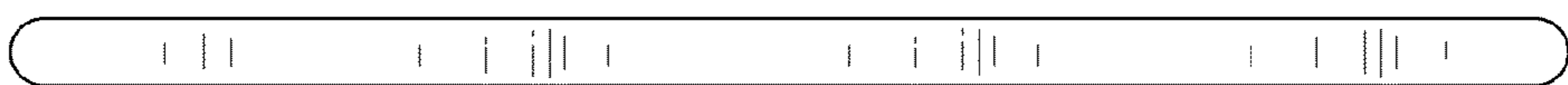


FIG. 5



FIG. 6



FIG. 7