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(12) **United States Design Patent**
Cottone, Jr. et al.

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(54) **INTERLOCKING TUBULAR STENT STRUCTURE**

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

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(51) **LOC (8) Cl.** **24-03**

(52) **U.S. Cl.** **D24/155**

(58) **Field of Classification Search** D24/155-157; 623/1.13-1.23; 604/1.02-103.02; D5/2-3
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D295,557 S	5/1988	Barber et al.
5,158,548 A	10/1992	Lau et al.
5,344,426 A	9/1994	Lau et al.
D359,802 S	6/1995	Fontaine
5,554,181 A	9/1996	Das
5,593,434 A	1/1997	Williams
5,618,301 A	4/1997	Hauenstein et al.
D380,266 S	6/1997	Boatman et al.
D380,831 S	7/1997	Kavteladze et al.
5,643,312 A	7/1997	Fischell et al.
D390,957 S	2/1998	Fontaine
5,725,549 A	3/1998	Lam
5,730,698 A	3/1998	Fischell et al.
5,807,302 A	9/1998	Wandel
5,827,322 A	10/1998	Williams
5,855,597 A	1/1999	Jayaraman
5,868,783 A	2/1999	Towers
5,976,181 A	11/1999	Whelan et al.
6,022,371 A	2/2000	Killion
6,117,165 A	9/2000	Becker

6,210,318 B1	4/2001	Lederman
6,348,065 B1	2/2002	Brown et al.
6,358,274 B1	3/2002	Thompson
6,432,132 B1	8/2002	Cottone et al.
6,471,719 B1	10/2002	Voinov et al.
6,488,703 B1	12/2002	Kveen et al.
D471,277 S	3/2003	Seibold et al.

(Continued)

FOREIGN PATENT DOCUMENTS

EP 0884029 12/1998

(Continued)

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(57) **CLAIM**

The ornamental design for an interlocking tubular stent structure, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of an interlocking tubular stent structure showing our new design;

FIG. 2 is another top perspective view thereof showing the design in a substantially interlocked condition;

FIG. 3 is another top perspective view thereof, shown on an enlarged scale and with broken lines to indicate environment and which form no part of the claim,

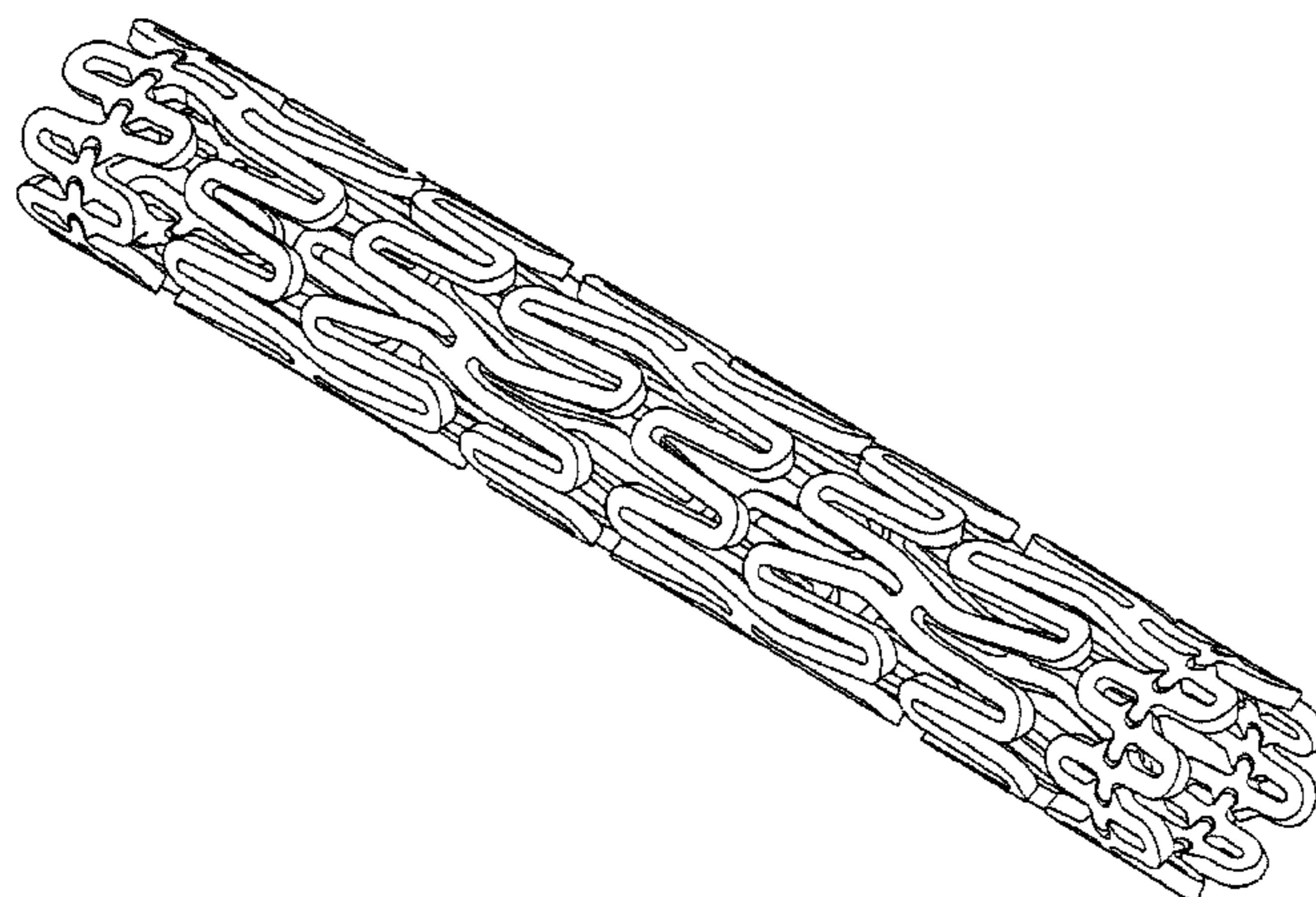
FIG. 4 is a top plan view thereof shown on an enlarged scale and in a planar condition;

FIG. 5 is another top plan view thereof shown on an enlarged scale and in an expanded condition;

FIG. 6 is another top perspective view thereof shown on an enlarged scale and partially in fragment; and,

FIG. 7 is another top perspective view thereof shown on an enlarged scale, partially in fragment and in a substantially interlocked position.

1 Claim, 7 Drawing Sheets



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U.S. PATENT DOCUMENTS					
6,551,350	B1	4/2003 Thornton et al.	7,108,714	B1	9/2006 Becker
6,554,855	B1	4/2003 Dong	7,118,593	B2	10/2006 Davidson et al.
6,562,065	B1	5/2003 Shanley	7,144,422	B1	12/2006 Rao
6,562,067	B2	5/2003 Mathis	7,153,322	B2 *	12/2006 Alt 623/1.15
6,565,598	B1	5/2003 Lootz	7,160,319	B2	1/2007 Chouinard et al.
6,565,599	B1	5/2003 Hong et al.	7,160,321	B2	1/2007 Shanley
6,565,600	B2	5/2003 Hojeibane	7,169,174	B2 *	1/2007 Fischell et al. 623/1.15
6,574,851	B1	6/2003 Mirizzi	7,169,175	B2	1/2007 Cottone, Jr. et al.
6,579,309	B1	6/2003 Loos et al.	D553,746	S *	10/2007 Fliedner D24/155
6,585,755	B2	7/2003 Jackson et al.	D553,747	S *	10/2007 Fliedner D24/155
6,585,758	B1	7/2003 Chouinard et al.	7,311,726	B2 *	12/2007 Mittelberg et al. 623/1.15
6,592,617	B2	7/2003 Thompson	2002/0095206	A1	7/2002 Addonizio et al.
6,596,021	B1	7/2003 Lootz	2002/0095208	A1	7/2002 Gregorich et al.
6,596,022	B2	7/2003 Lau et al.	2003/0149474	A1	8/2003 Becker
6,602,283	B2	8/2003 Doran et al.	2004/0059407	A1	3/2004 Escamilla et al.
6,602,284	B2	8/2003 Cox et al.	2004/0093058	A1	5/2004 Cottone et al.
6,605,110	B2	8/2003 Harrison	2004/0158307	A1	8/2004 Jones et al.
6,607,554	B2	8/2003 Dang et al.	2004/0167610	A1	8/2004 Fleming, III
6,613,080	B1	9/2003 Lootz	2004/0260385	A1	12/2004 Jones et al.
6,613,081	B2	9/2003 Kim et al.	2005/0038496	A1	2/2005 Jones et al.
6,616,689	B1	9/2003 Ainsworth et al.	2005/0090894	A1	4/2005 Paziienza et al.
D480,809	S	10/2003 Seibold et al.	2006/0089703	A1	4/2006 Escamilla et al.
D481,130	S	10/2003 Seibold et al.	2006/0095213	A1	5/2006 Escamilla et al.
D481,139	S	10/2003 Seibold et al.	2006/0224231	A1	10/2006 Gregorich et al.
6,629,993	B2	10/2003 Voinov	2006/0265048	A1	11/2006 Cheng et al.
D484,979	S	1/2004 Fontaine	2006/0271170	A1	11/2006 Gale et al.
6,736,844	B1 *	5/2004 Glatt et al. 623/1.22	2006/0287715	A1	12/2006 Atladottir et al.
6,818,013	B2 *	11/2004 Mittelberg et al. 623/1.15	2007/0023974	A1	2/2007 Wu
6,821,292	B2	11/2004 Paziienza et al.	2007/0032857	A1	2/2007 Schmid et al.
6,821,293	B2 *	11/2004 Pinchasik 623/1.15	2007/0038292	A1	2/2007 Danielpour
6,833,003	B2	12/2004 Jones et al.	2007/0043426	A1	2/2007 Abbate
6,852,124	B2	2/2005 Cox et al.	2007/0048350	A1	3/2007 Falotico et al.
6,860,898	B2	3/2005 Stack et al.	2007/0050007	A1	3/2007 Kondyurin et al.
6,863,684	B2	3/2005 Kim et al.			
6,881,222	B2	4/2005 White et al.			
6,893,458	B2	5/2005 Cox et al.			
6,896,695	B2	5/2005 Mueller et al.			
6,908,479	B2	6/2005 Lau et al.			
6,960,227	B2	11/2005 Jones et al.			
6,972,031	B1	12/2005 Braginsky et al.			
6,979,349	B1 *	12/2005 Dang et al. 623/1.15			
7,001,422	B2	2/2006 Escamilla et al.			
D516,723	S	3/2006 Shanley			
7,029,493	B2 *	4/2006 Majercak et al. 623/1.15			
D523,558	S	6/2006 Shanley			
7,105,019	B2 *	9/2006 Hojeibane 623/1.35			

FOREIGN PATENT DOCUMENTS		
EP	0890346	1/1999
WO	WO 98/20927	5/1998
WO	WO 99/17682	4/1999
WO	WO 99/53862	10/1999
WO	WO 01/08598	2/2000
WO	WO 00/19942	4/2000
WO	WO 00/27307	5/2000
WO	WO 00/51523	9/2000
WO	WO 01/89421	11/2001
WO	WO 02/13724	2/2002
WO	WO 03/017870	3/2003

* cited by examiner

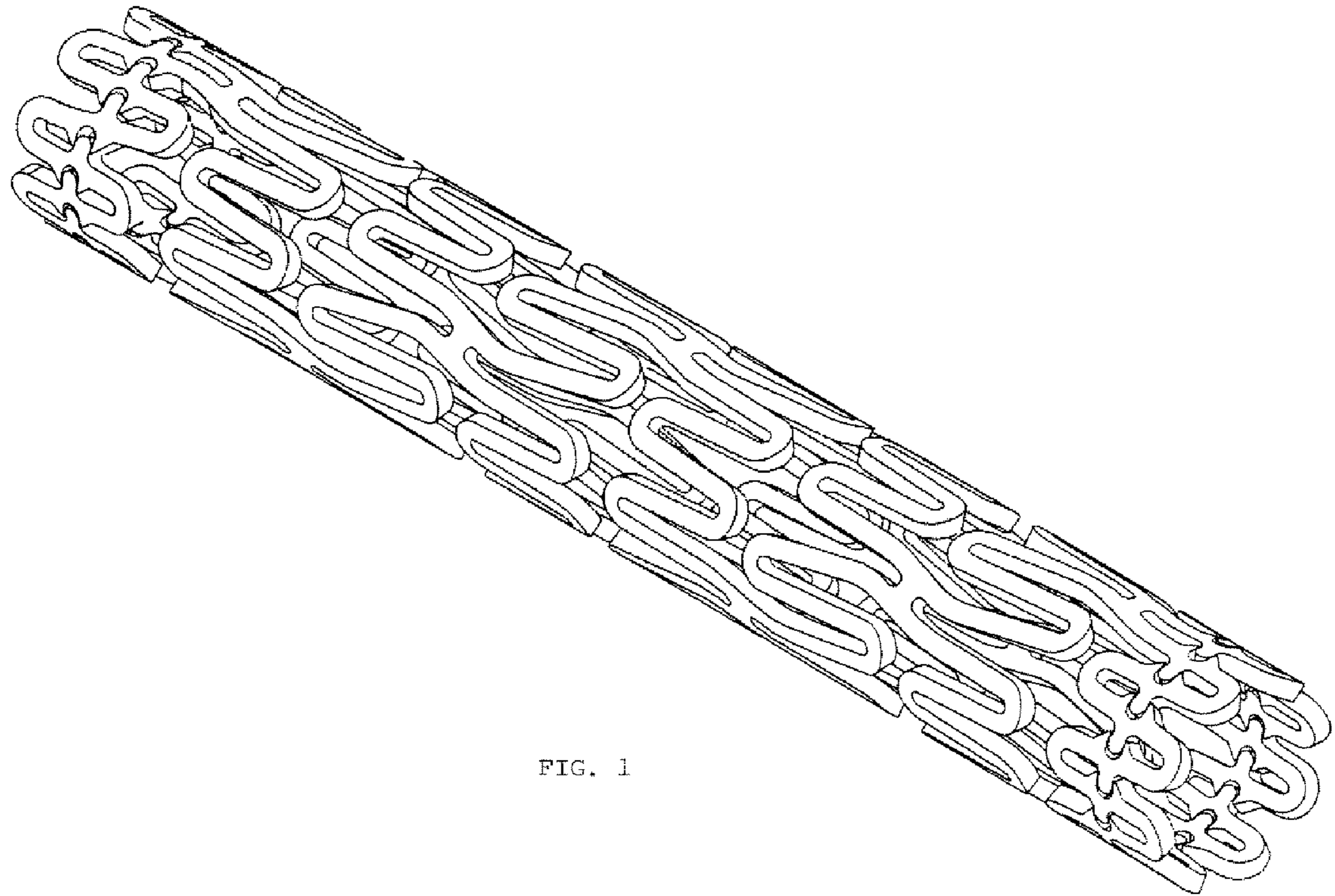


FIG. 1

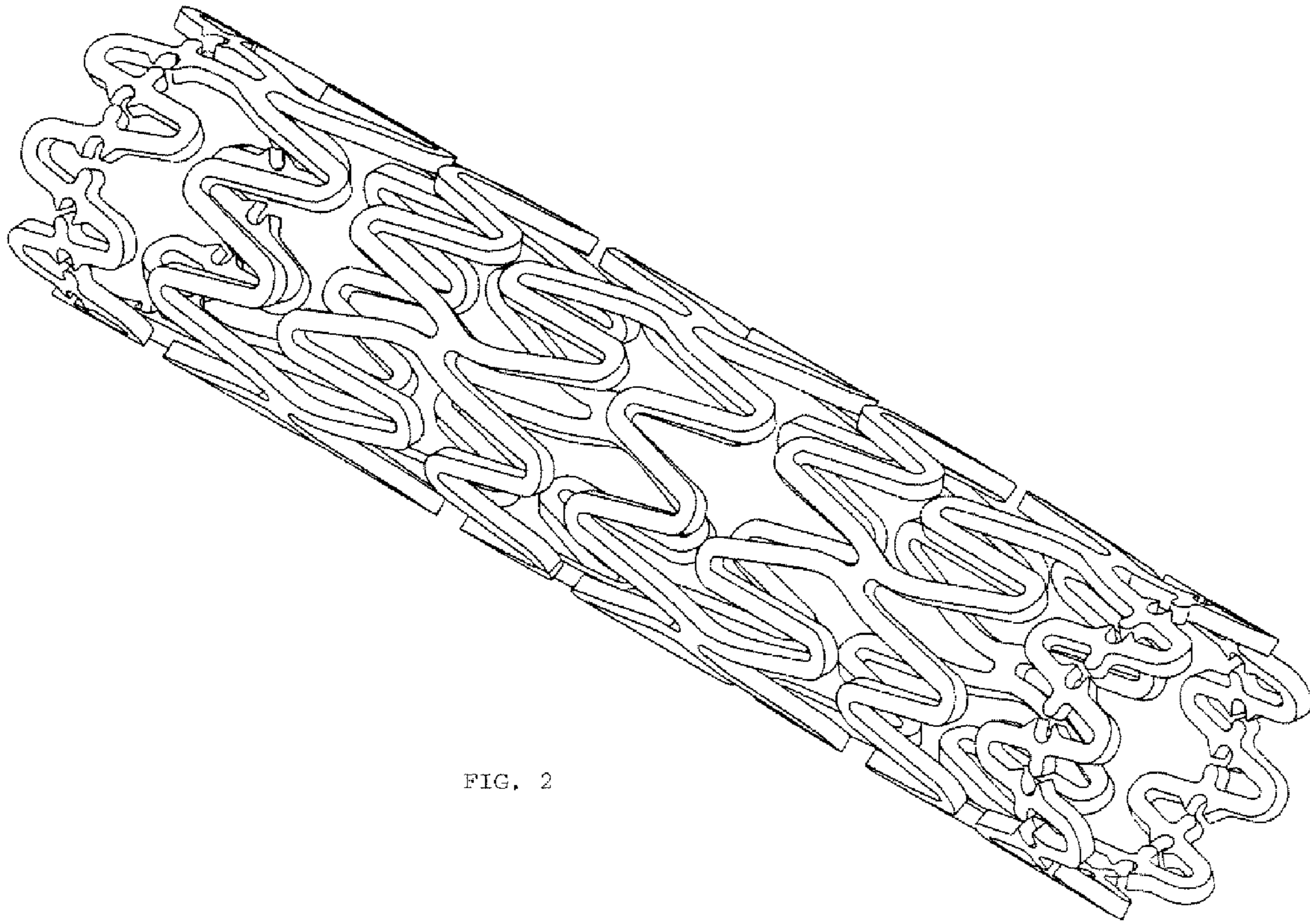


FIG. 2

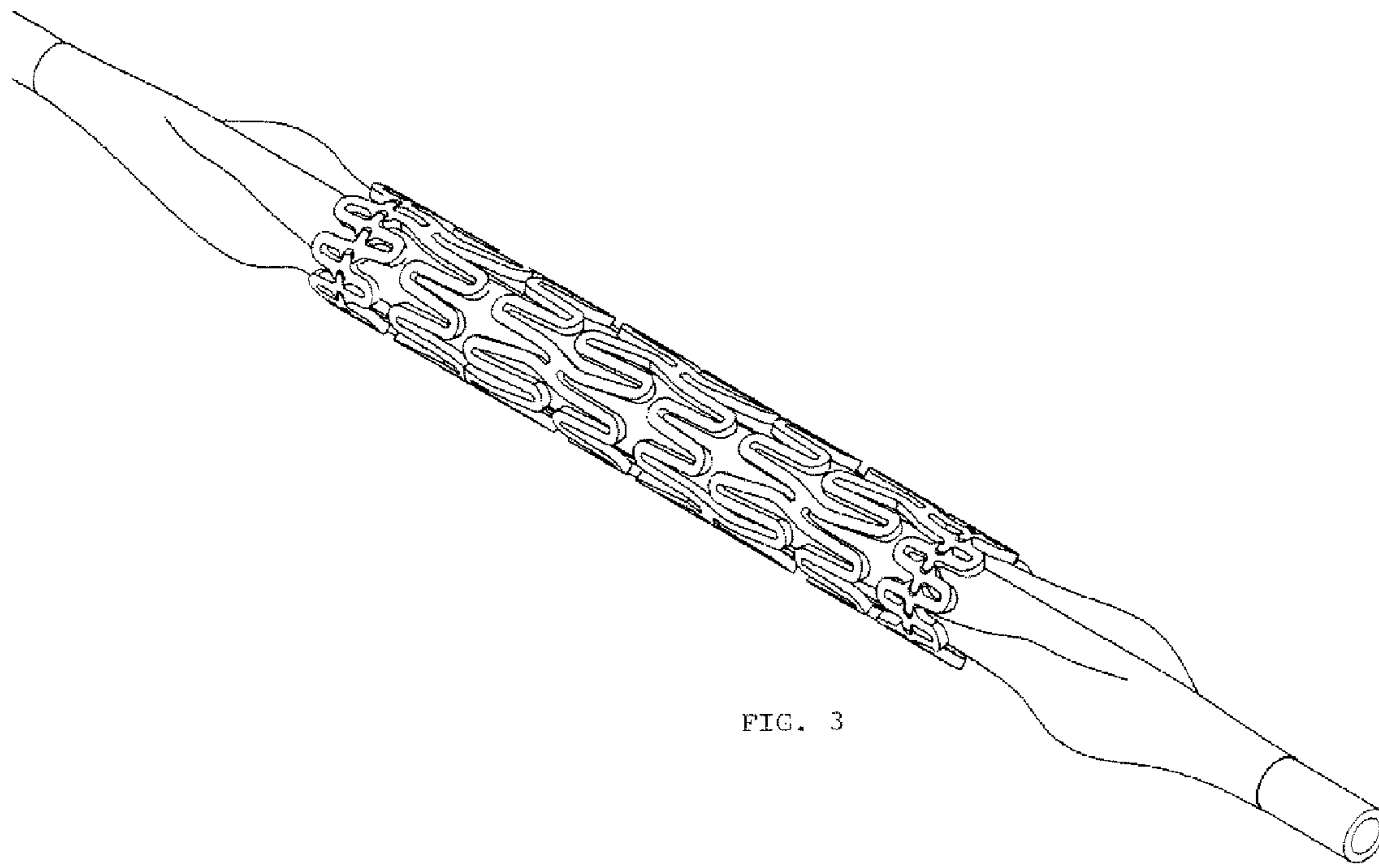


FIG. 3

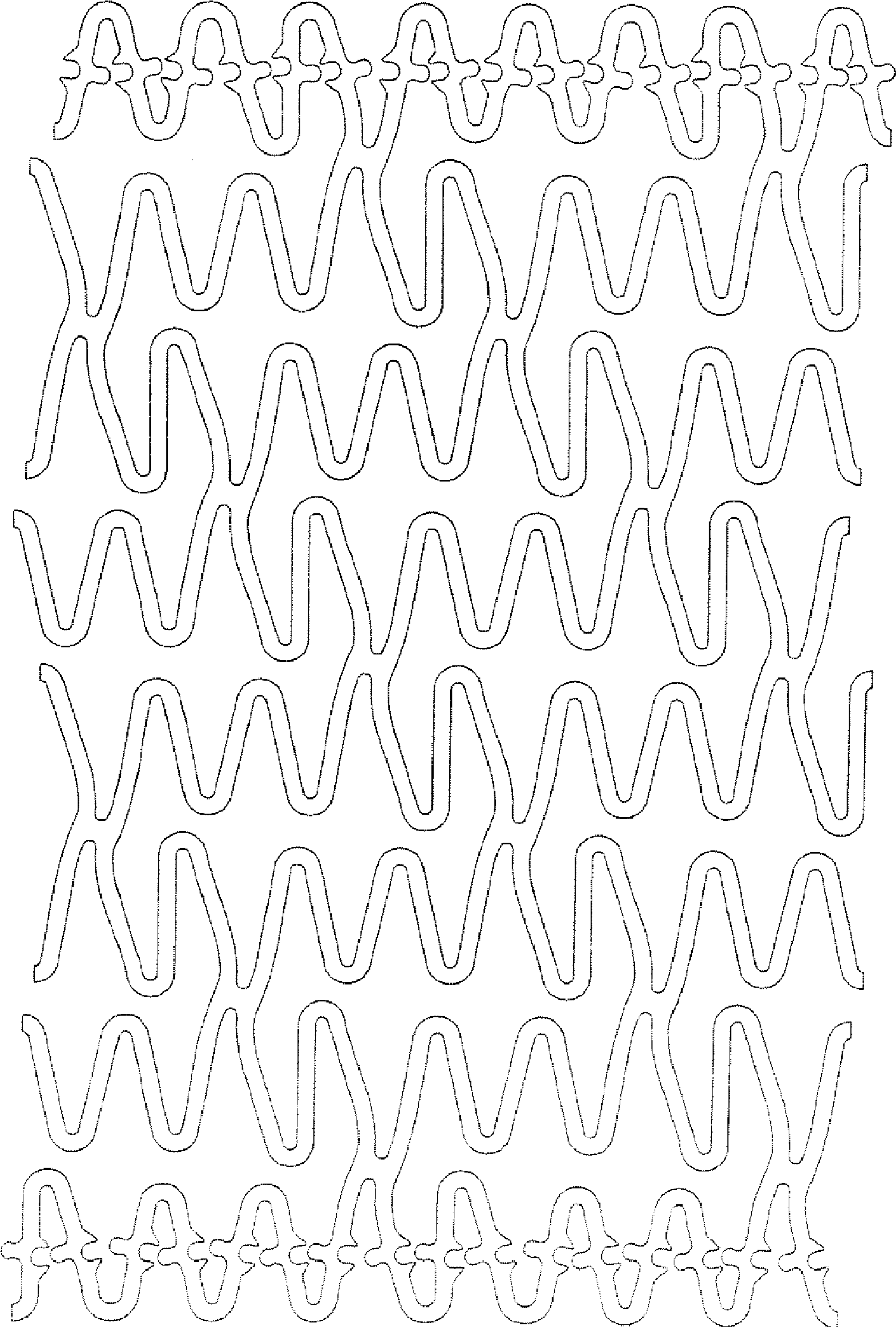


FIG. 4

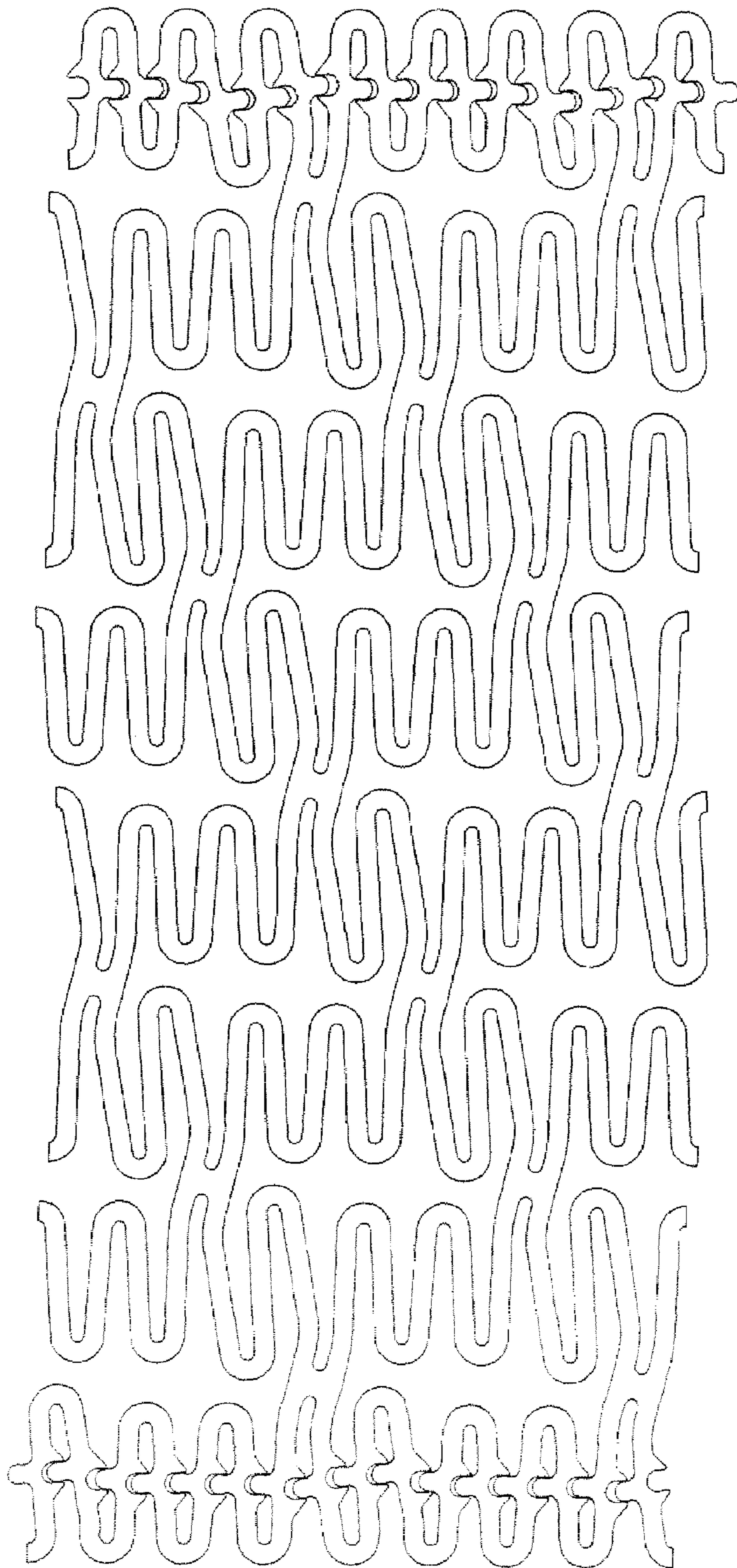


FIG. 5

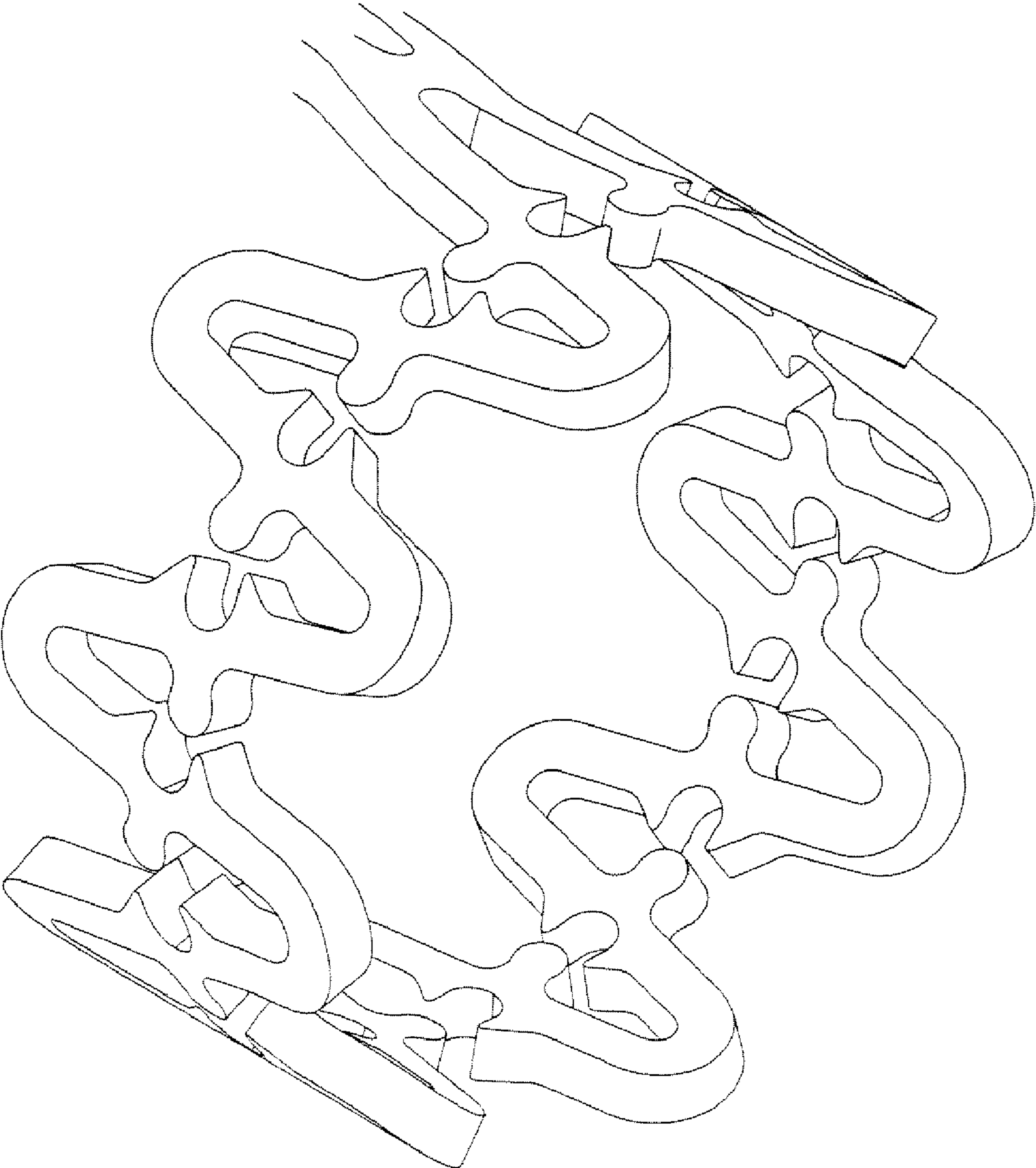


FIG. 6

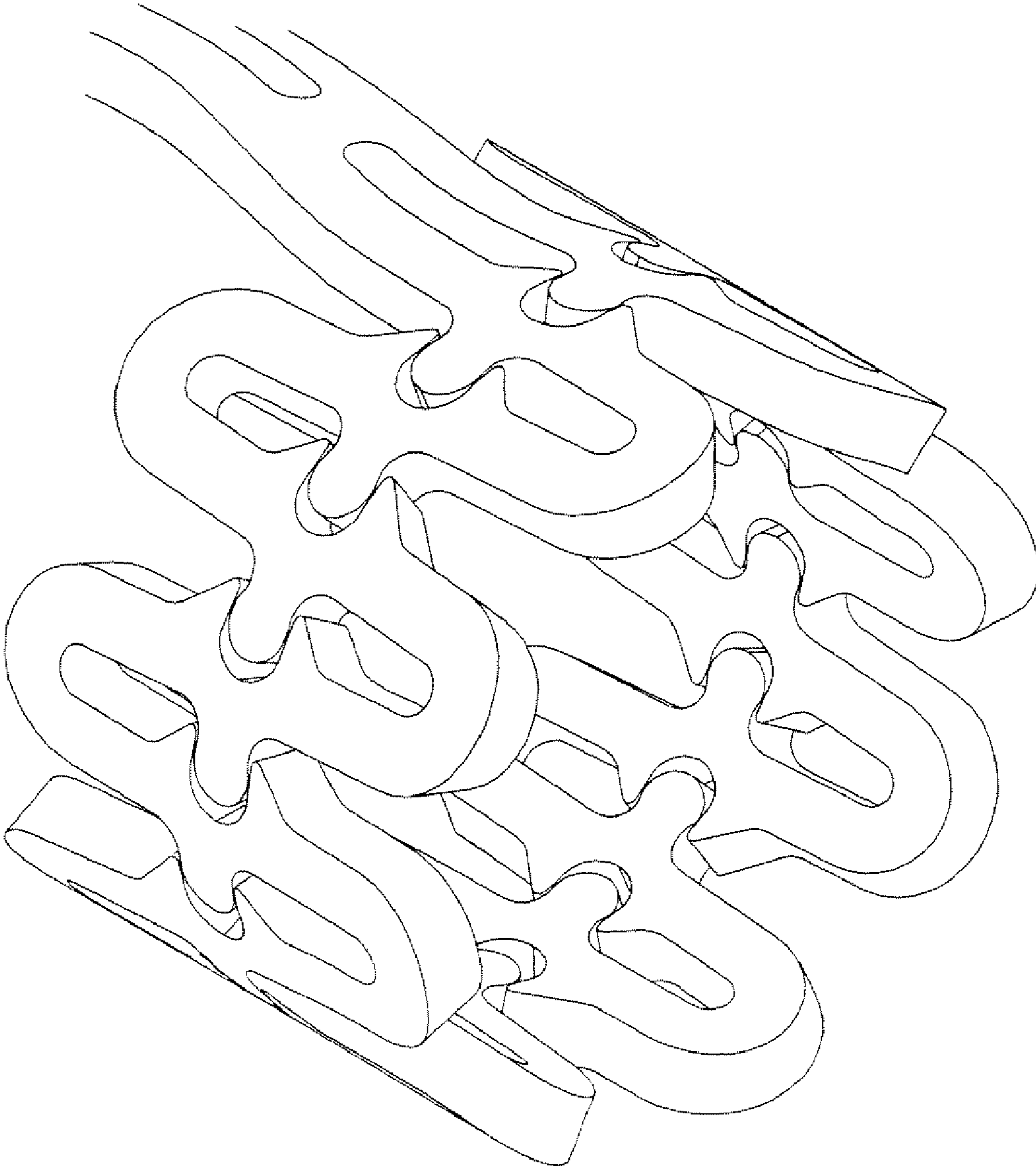


FIG. 7