



US00D848626S

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

(10) **Patent No.:** **US D848,626 S**

(45) **Date of Patent:** **\*\* May 14, 2019**

(54) **ORTHOSIS**

(71) Applicant: **Orthèse Hallux Valgus Inc.**, Québec (CA)

(72) Inventor: **Sylvie Lavoie**, Québec (CA)

(73) Assignee: **Orthèse Hallux Valgus, Inc.**, Québec (CA)

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

(21) Appl. No.: **29/615,452**

(22) Filed: **Aug. 29, 2017**

(51) **LOC (11) Cl.** ..... **24-04**

(52) **U.S. Cl.**  
USPC ..... **D24/192**

(58) **Field of Classification Search**  
USPC ..... D24/127, 128, 132, 133, 185–189,  
D24/124–126, 190–193, 199, 200, 206,  
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,080,303 A 12/1913 Scholl  
1,103,465 A 7/1914 Arrowsmith  
(Continued)

FOREIGN PATENT DOCUMENTS

CA 704642 A 3/1965  
CN 2141268 Y 9/1993  
(Continued)

OTHER PUBLICATIONS

Alibaba. Alibaba china douleur orthese hallux valgus post operatoire valgus pied. 2018 [earliest online date], [site visited May 8, 2018]. Available from Internet, <URL:https://www.alibaba.com/product-detail/Alibaba-china-douleur-orthese-hallux-valgus\_60301647331.html>. (Year: 2018).\*

*Primary Examiner* — George D. Kirschbaum

*Assistant Examiner* — Darcey E Heflin

(74) *Attorney, Agent, or Firm* — Hamilton, Brook, Smith & Reynolds, P.C.

(57) **CLAIM**

The ornamental design for an orthosis, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of an orthosis;  
FIG. 2 is a right-side elevation view of the orthosis shown in FIG. 1;  
FIG. 3 is a left-side elevation view of the orthosis shown in FIG. 1;  
FIG. 4 is a front elevation view of the orthosis shown in FIG. 1;  
FIG. 5 is a rear elevation view of the orthosis shown in FIG. 1;  
FIG. 6 is a top plan view of the orthosis shown in FIG. 1;  
FIG. 7 is a bottom plan view of the orthosis shown in FIG. 1; and  
FIG. 8 is a perspective view of the orthosis shown in FIG. 1, mounted on a foot;  
FIG. 9 is a perspective view of an orthosis in accordance with a second variant;  
FIG. 10 is a right-side elevation view of the orthosis shown in FIG. 9;  
FIG. 11 is a left-side elevation view of the orthosis shown in FIG. 9;  
FIG. 12 is a front elevation view of the orthosis shown in FIG. 9;  
FIG. 13 is a rear elevation view of the orthosis shown in FIG. 9;  
FIG. 14 is a top plan view of the orthosis shown in FIG. 9;  
FIG. 15 is a bottom plan view of the orthosis shown in FIG. 9;  
FIG. 16 is a perspective view of the orthosis shown in FIG. 9, mounted on a foot;  
FIG. 17 is a perspective view of an orthosis in accordance with a third variant;  
FIG. 18 is a right-side elevation view of the orthosis shown in FIG. 17;

(Continued)

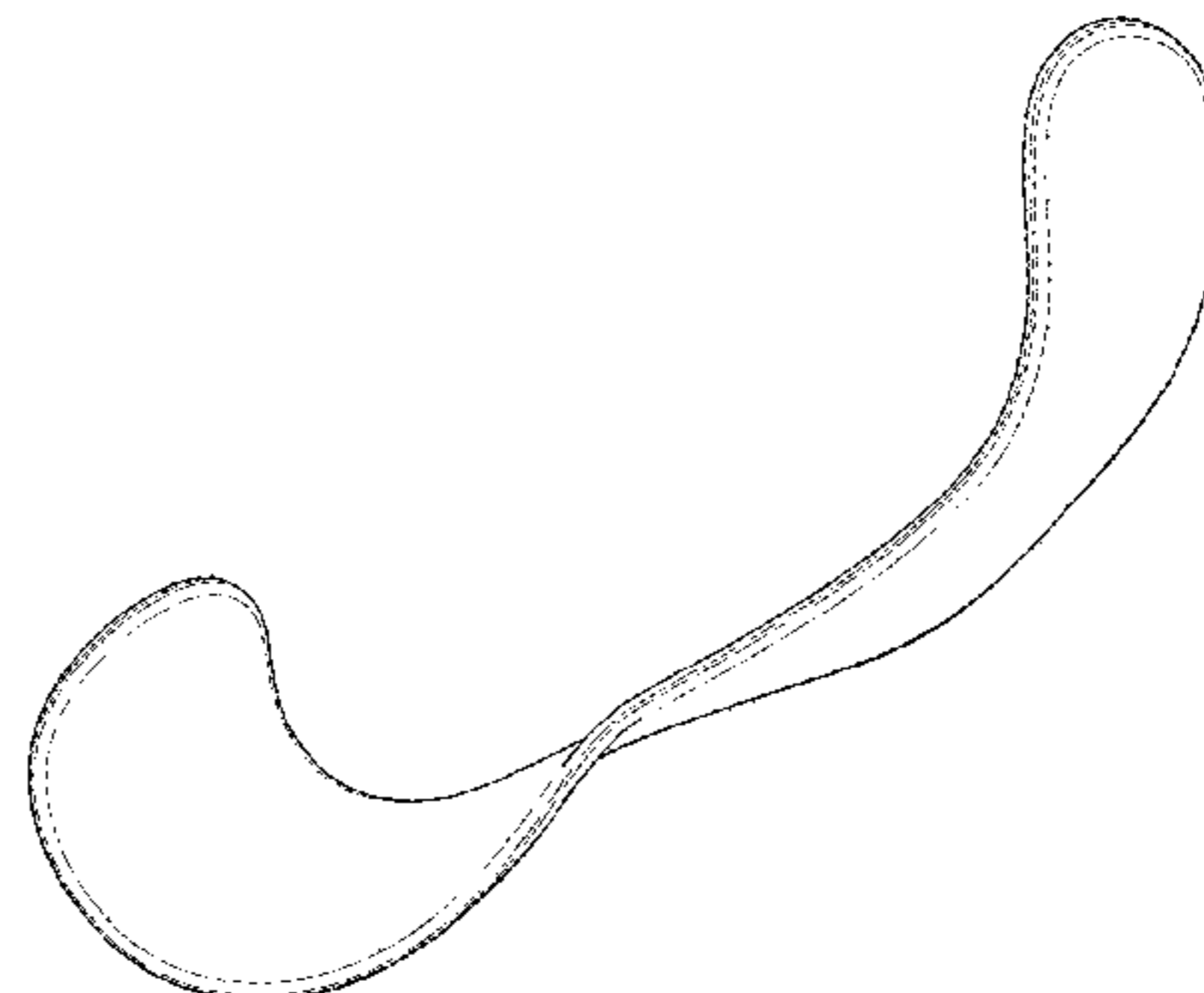
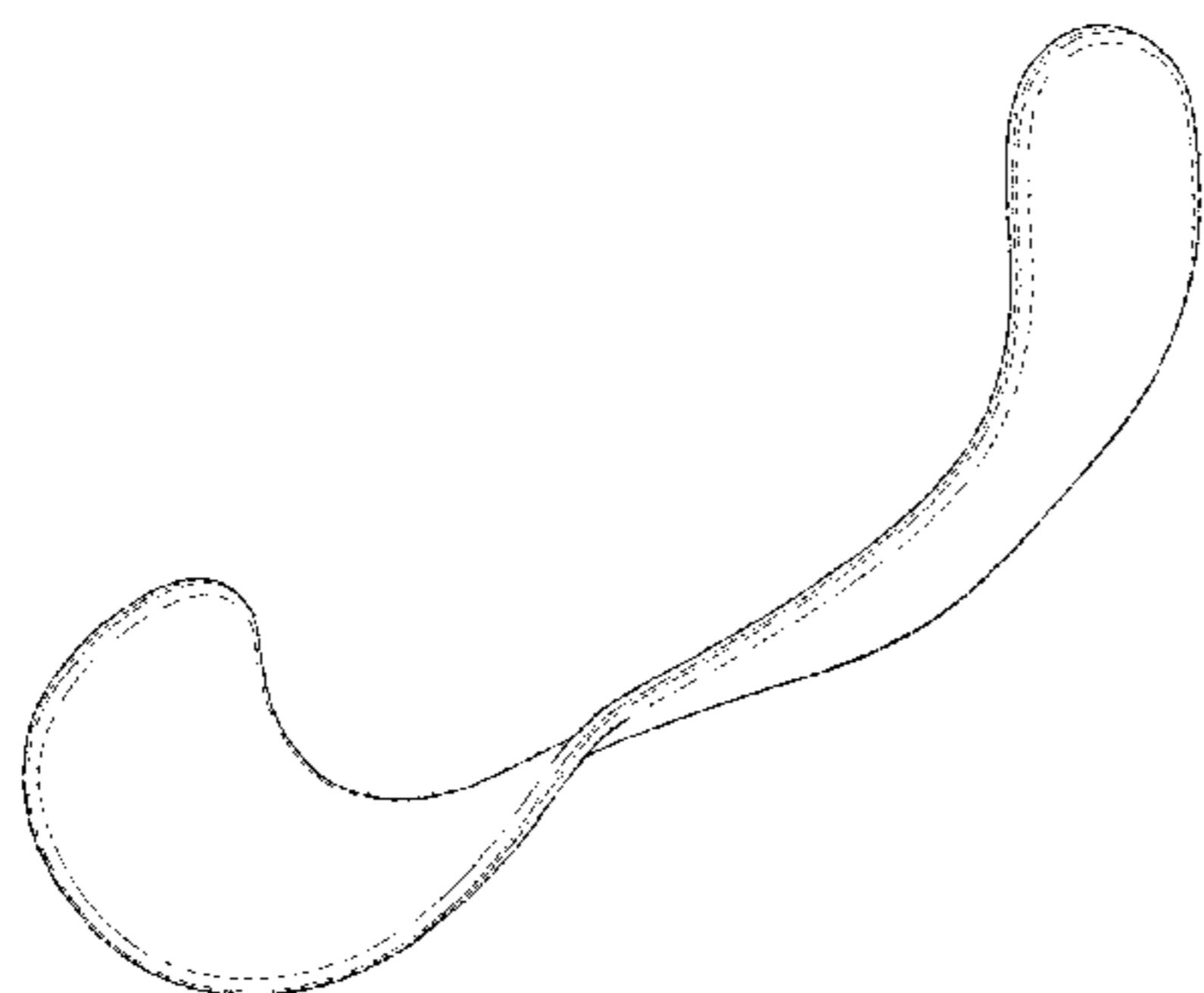


FIG. 19 is a left-side elevation view of the orthosis shown in FIG. 17;

FIG. 20 is a front elevation view of the orthosis shown in FIG. 17;

FIG. 21 is a rear elevation view of the orthosis shown in FIG. 17;

FIG. 22 is a top plan view of the orthosis shown in FIG. 17;

FIG. 23 is a bottom plan view of the orthosis shown in FIG. 17; and,

FIG. 24 is a perspective view of the orthosis shown in FIG. 17, mounted on a foot.

The portions shown in broken lines do not form part of the claimed design.

The orthosis is an orthotic device for a foot.

**1 Claim, 21 Drawing Sheets**

(58) **Field of Classification Search**

USPC ..... D24/209, 210, 212-215; D29/100, 108, D29/120.1, 121.1, 121.2; D30/146; D2/980, 983, 993, 994  
 CPC .... A61F 5/0118; A61F 5/0109; A61F 5/0111; A61F 5/0102; A61F 5/0123; A61F 5/05841

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,175,718	A	3/1916	Crowe	
1,245,468	A	11/1917	Koppe	
1,497,151	A	6/1924	Malkin	
1,665,030	A	4/1928	Hartwig	
1,785,185	A	12/1930	Day	
1,899,092	A	2/1933	Hogan	
2,069,034	A	1/1937	Hicks	
2,190,016	A	2/1940	Day et al.	
2,499,768	A	3/1950	McGlumphy	
D162,111	S *	2/1951	Austin	36/140
2,589,791	A	3/1952	Fine	
2,596,038	A	5/1952	Mayer	
2,958,324	A	11/1960	Berkemann	
3,063,446	A	11/1962	Levitt	
3,219,032	A	11/1965	Levitt	
4,632,103	A	12/1986	Fabricant et al.	
4,644,940	A	2/1987	Nakamura	
4,729,369	A	3/1988	Cook	
4,856,505	A	8/1989	Schaffer et al.	
D399,568	S *	10/1998	VanCleave	D24/189
6,629,943	B1	10/2003	Schroder	
D613,909	S *	4/2010	Oban	D29/121.2
D645,568	S *	9/2011	Walker	D24/214

D658,814	S *	5/2012	Wirtz	D29/108
D696,407	S *	12/2013	Herman	D24/188
D703,336	S *	4/2014	Eldridge	D24/192
D713,136	S *	9/2014	Baxter	D2/983
D717,961	S *	11/2014	Rupert	D24/192
D771,820	S *	11/2016	Haye	D24/186
D774,654	S *	12/2016	Anderson	D2/980
D791,956	S *	7/2017	Stewart	D24/187
D804,045	S *	11/2017	Epstein	D24/192
D808,030	S *	1/2018	Iwata	D24/192
D813,403	S *	3/2018	Hylton	D24/190
2002/0062140	A1	5/2002	Demian	
2010/0168632	A1	7/2010	Abbassian et al.	
2012/0215147	A1	8/2012	Lunnon	
2017/0367898	A1 *	12/2017	Ostan	A61F 13/023

FOREIGN PATENT DOCUMENTS

CN	2710579	Y	7/2005
CN	201239225	Y	5/2009
CN	201426794	Y	3/2010
CN	201719420	U	1/2011
CN	201822942	U	5/2011
CN	202490055	U	10/2012
CN	202801874	U	3/2013
CN	203436440	U	2/2014
CN	203539500	U	4/2014
CN	204033554	U	12/2014
DE	1881215	U	10/1963
DE	4014728	A1	11/1990
DE	9204651	U1	6/1992
DE	20112537	U1	1/2002
DE	202006010193	U1	8/2006
DE	202008004213	U1	8/2009
DE	202008004214	U1	8/2009
DE	102008049854	A1	4/2010
FR	2576209	A1	7/1986
FR	2697156	A1	4/1994
GB	149596	A	8/1920
GB	241733	A	10/1925
GB	838046	A	6/1960
JP	06054872	A	3/1994
JP	07039559	A	2/1995
JP	08131477	A	5/1996
JP	11076283	A	3/1999
JP	2964405	B1	10/1999
JP	2000116686	A	4/2000
JP	2001299792	A	10/2001
JP	2005305085	A	11/2005
JP	2006247335	A	9/2006
JP	2007167180	A	7/2007
JP	2010284210	A	12/2010
JP	2012000168	A	1/2012
KR	20090003777	U	4/2009
WO	9721404	A1	6/1997
WO	2011086716	A1	7/2011
WO	2014030143	A2	2/2014

\* cited by examiner

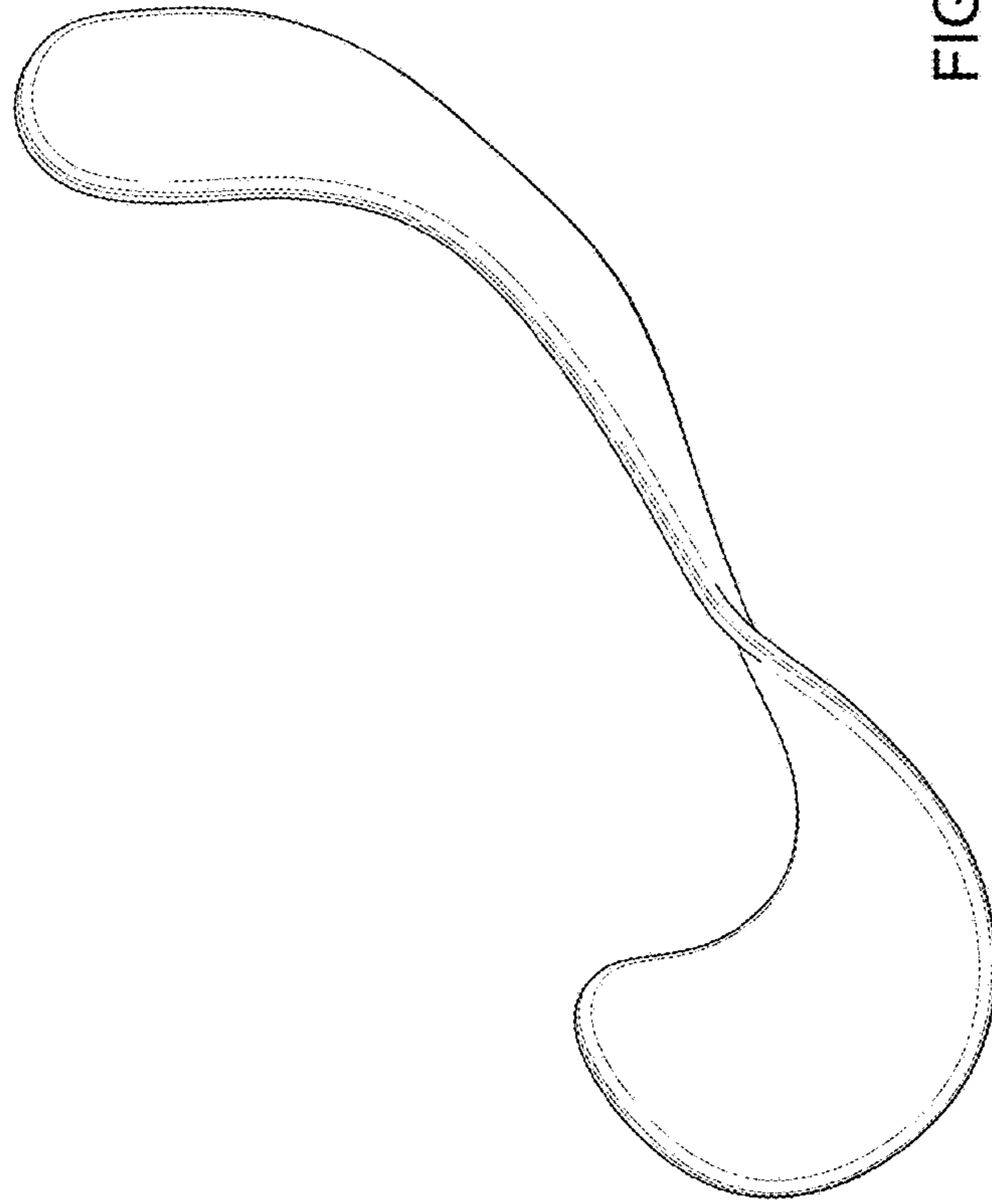


FIG. 1

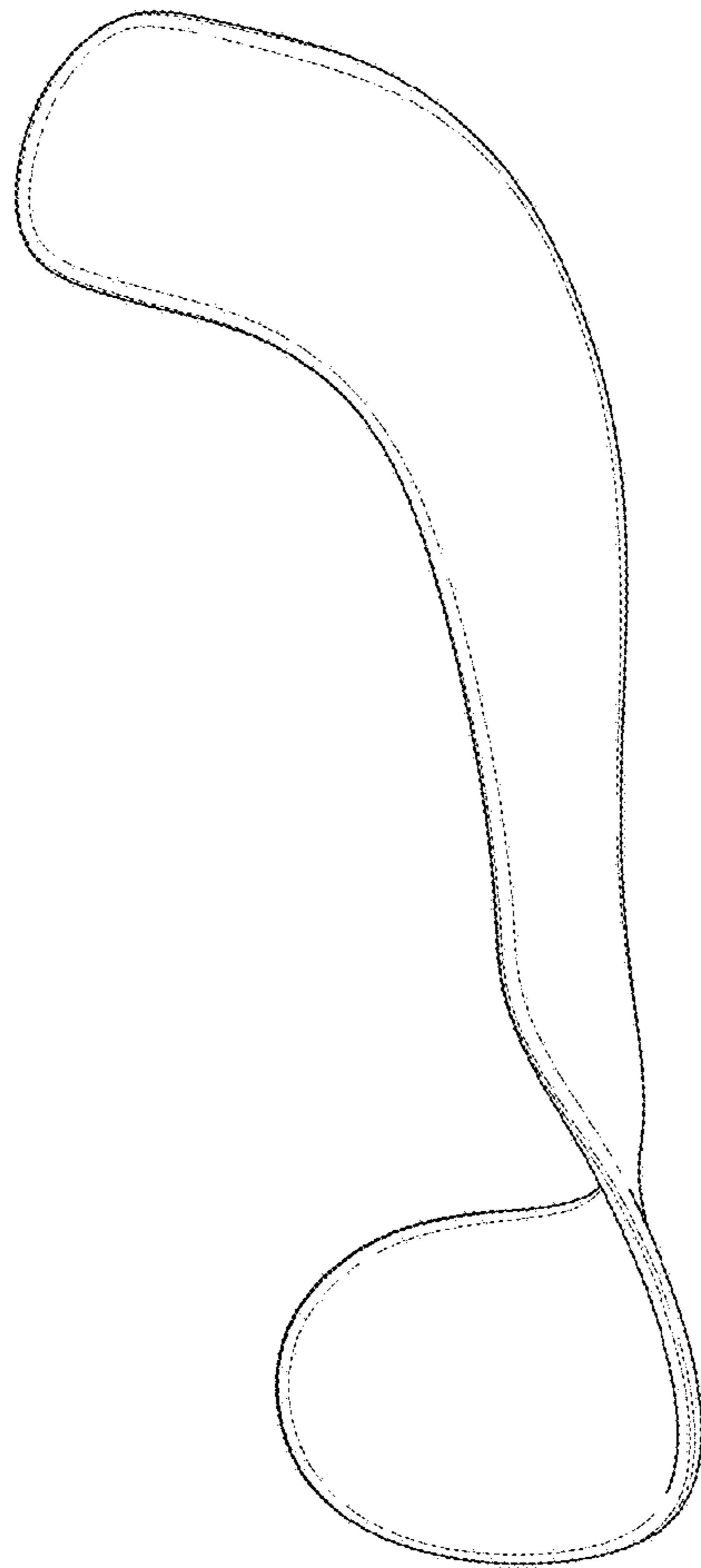


FIG. 2

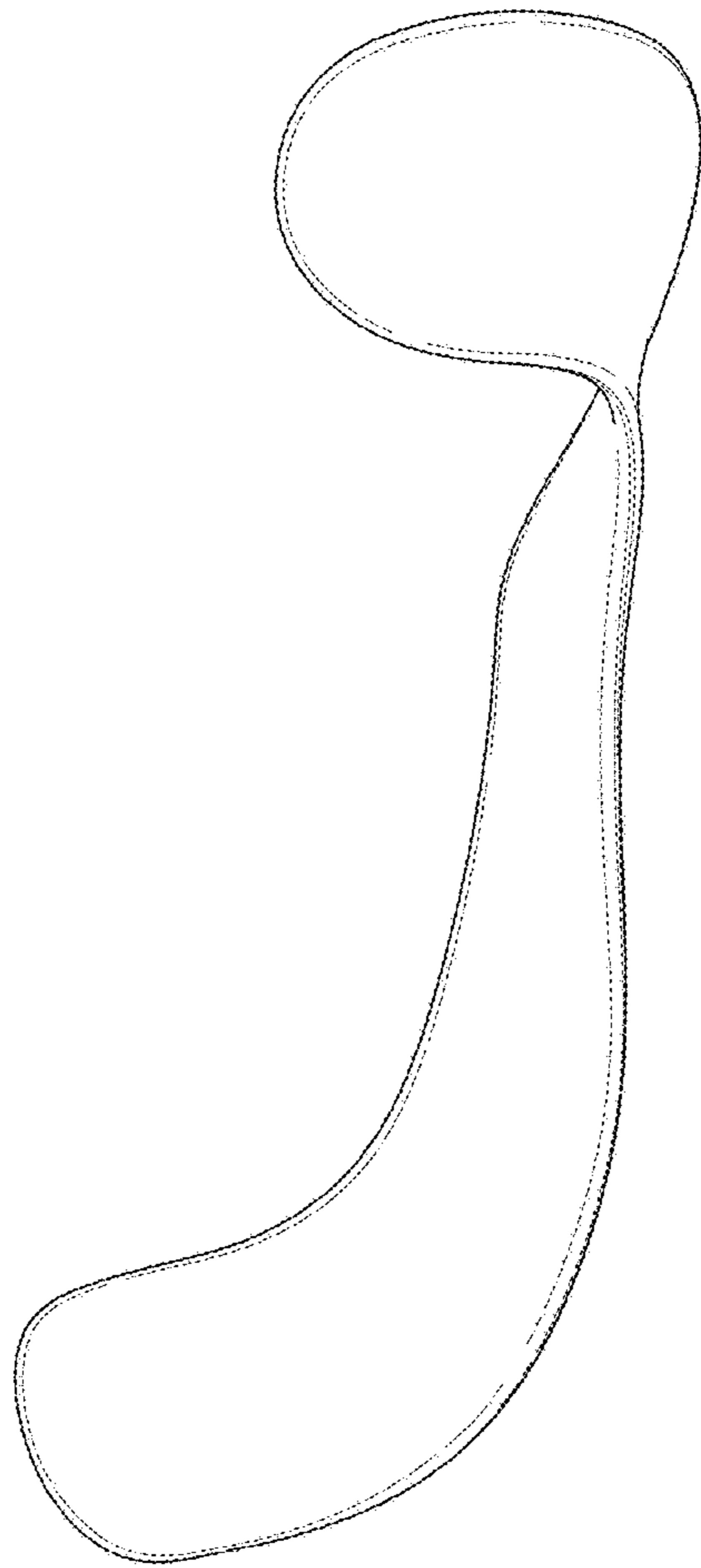


FIG. 3

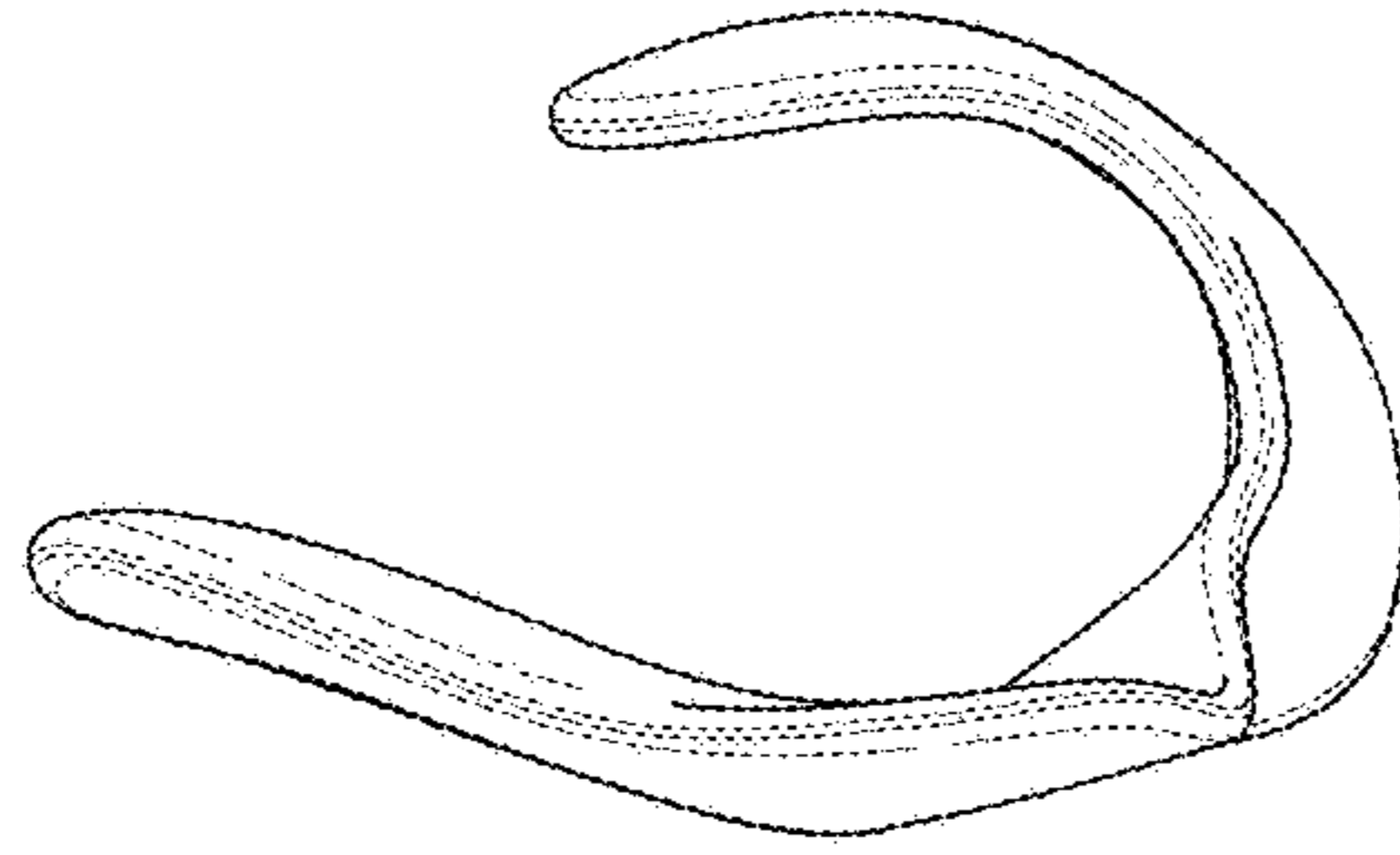


FIG. 5

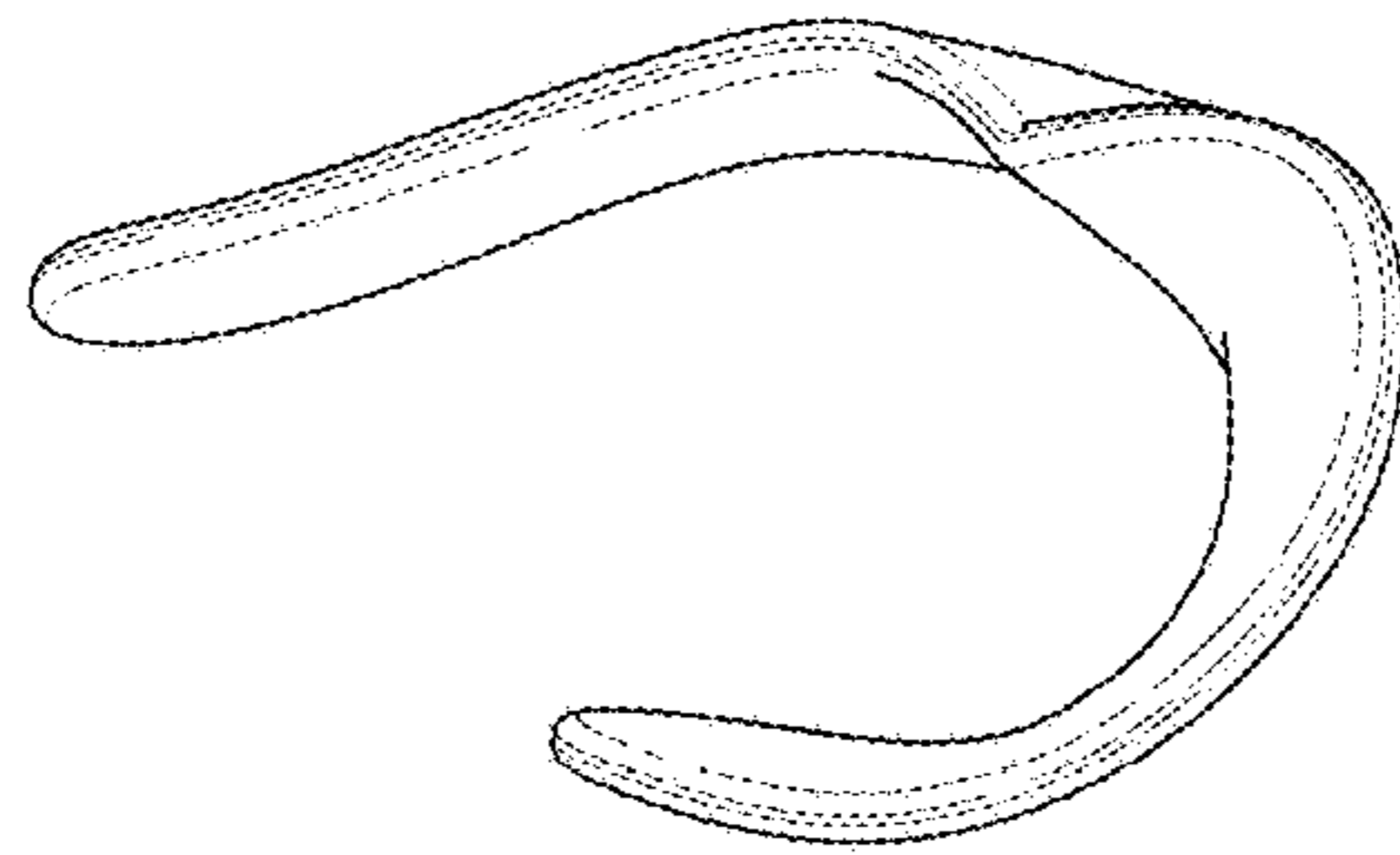


FIG. 4

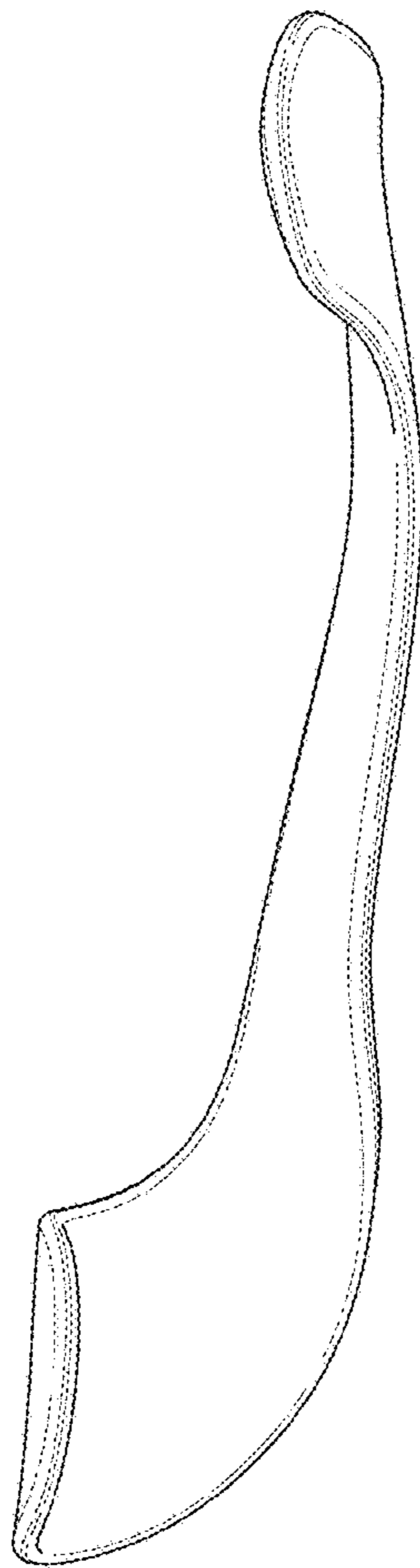


FIG. 6

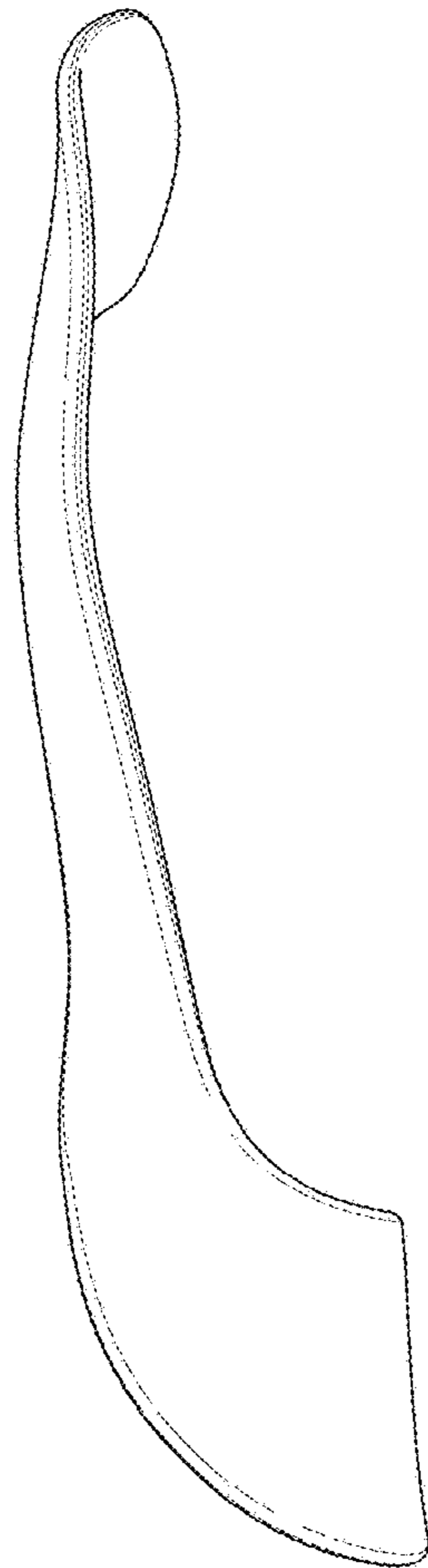


FIG. 7



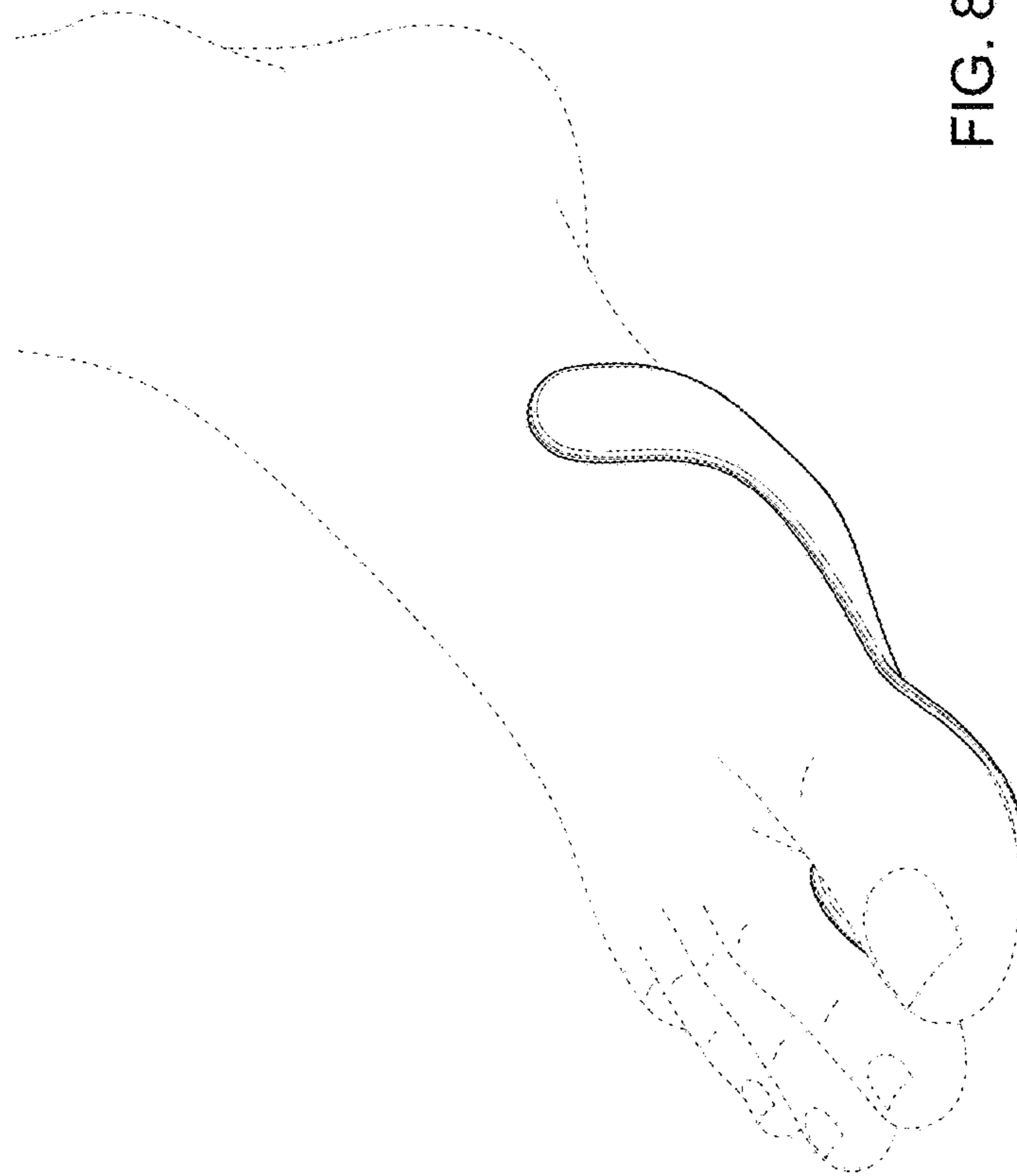


FIG. 8

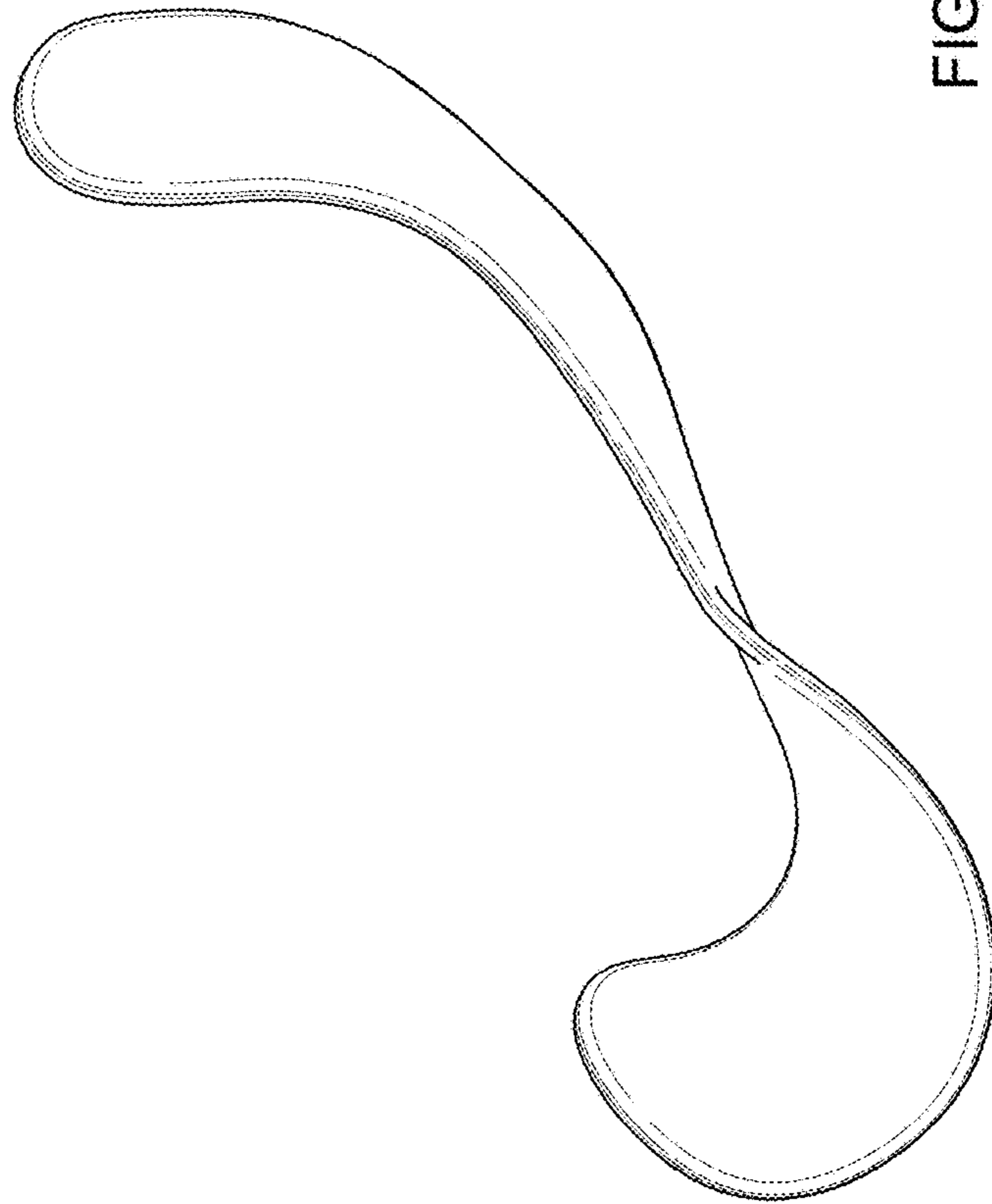


FIG. 9

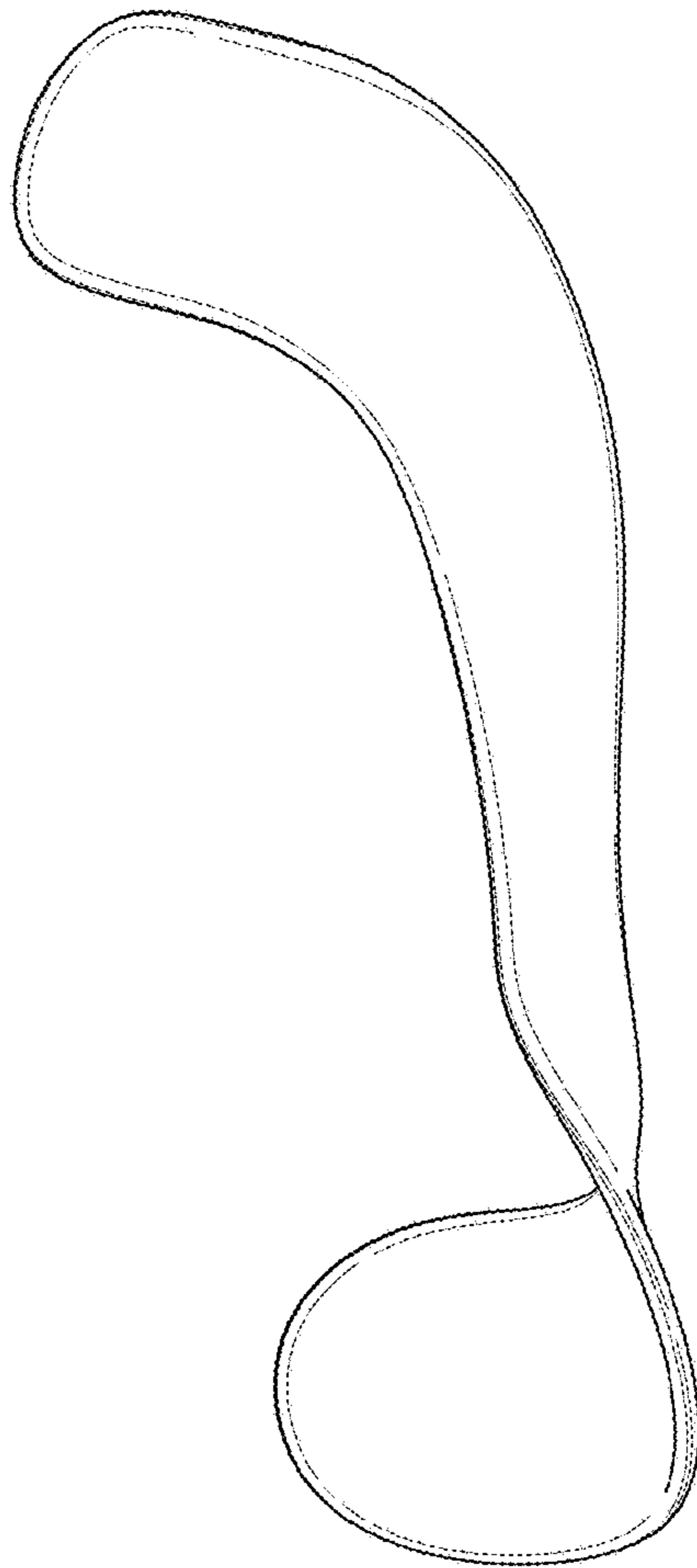


FIG. 10

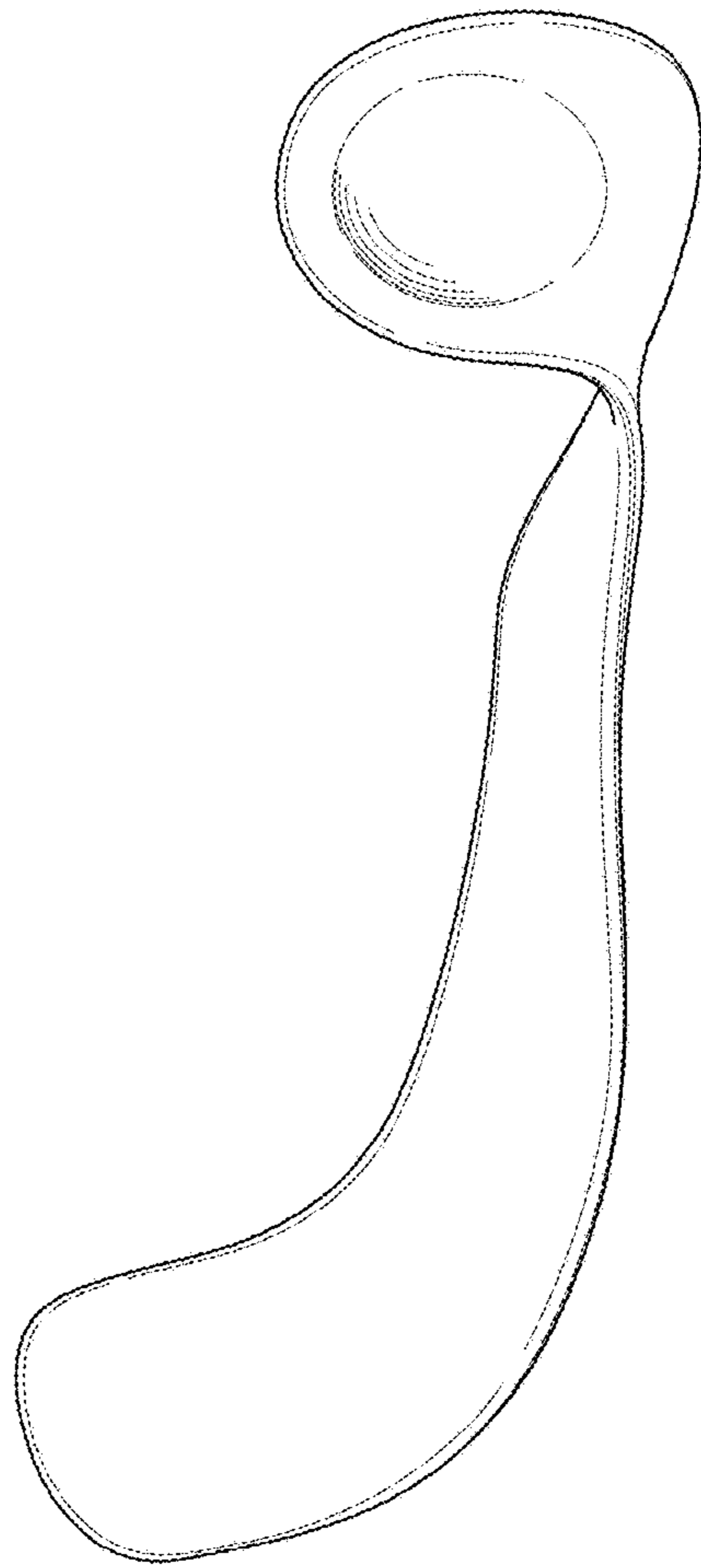


FIG. 11

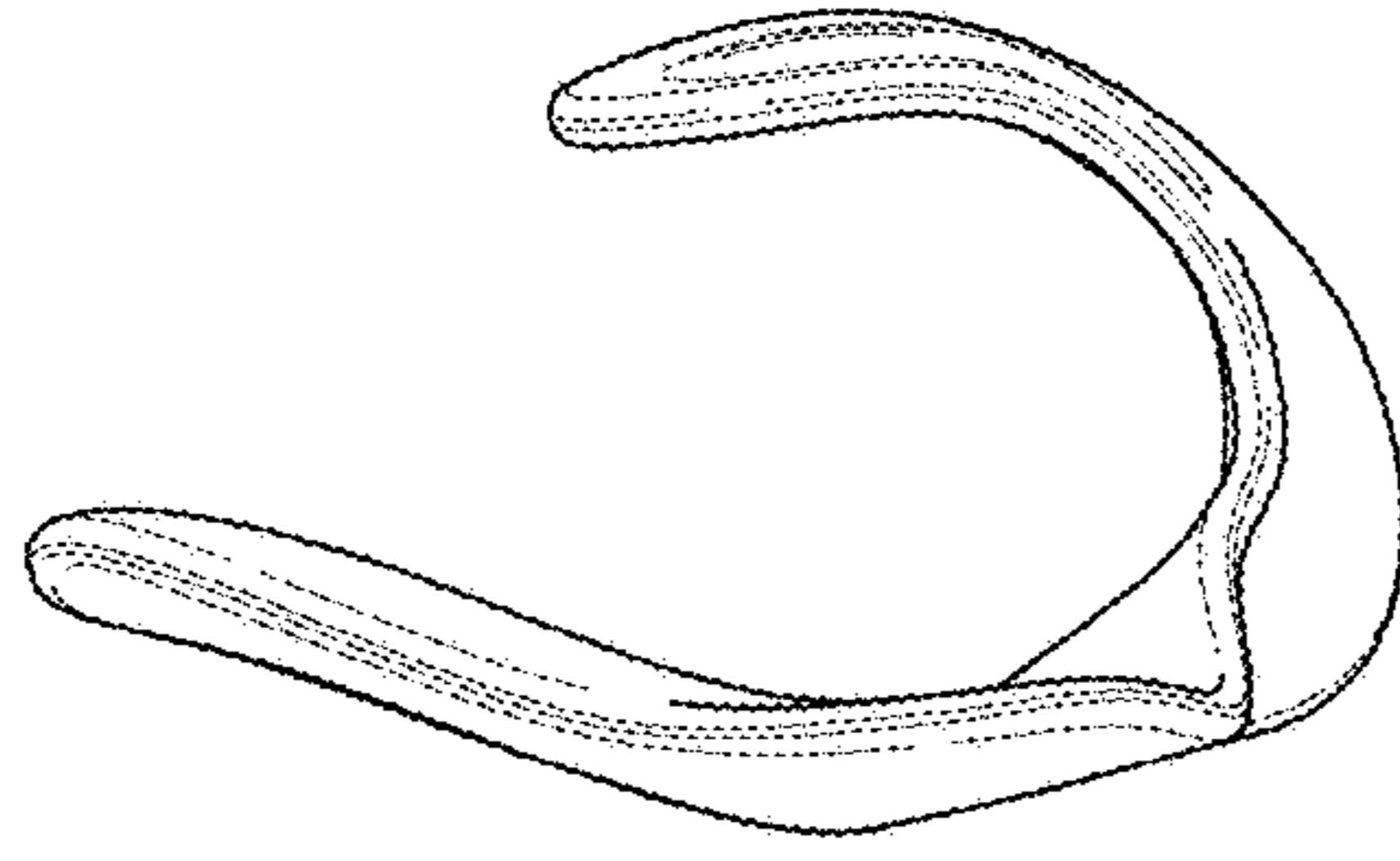


FIG. 13

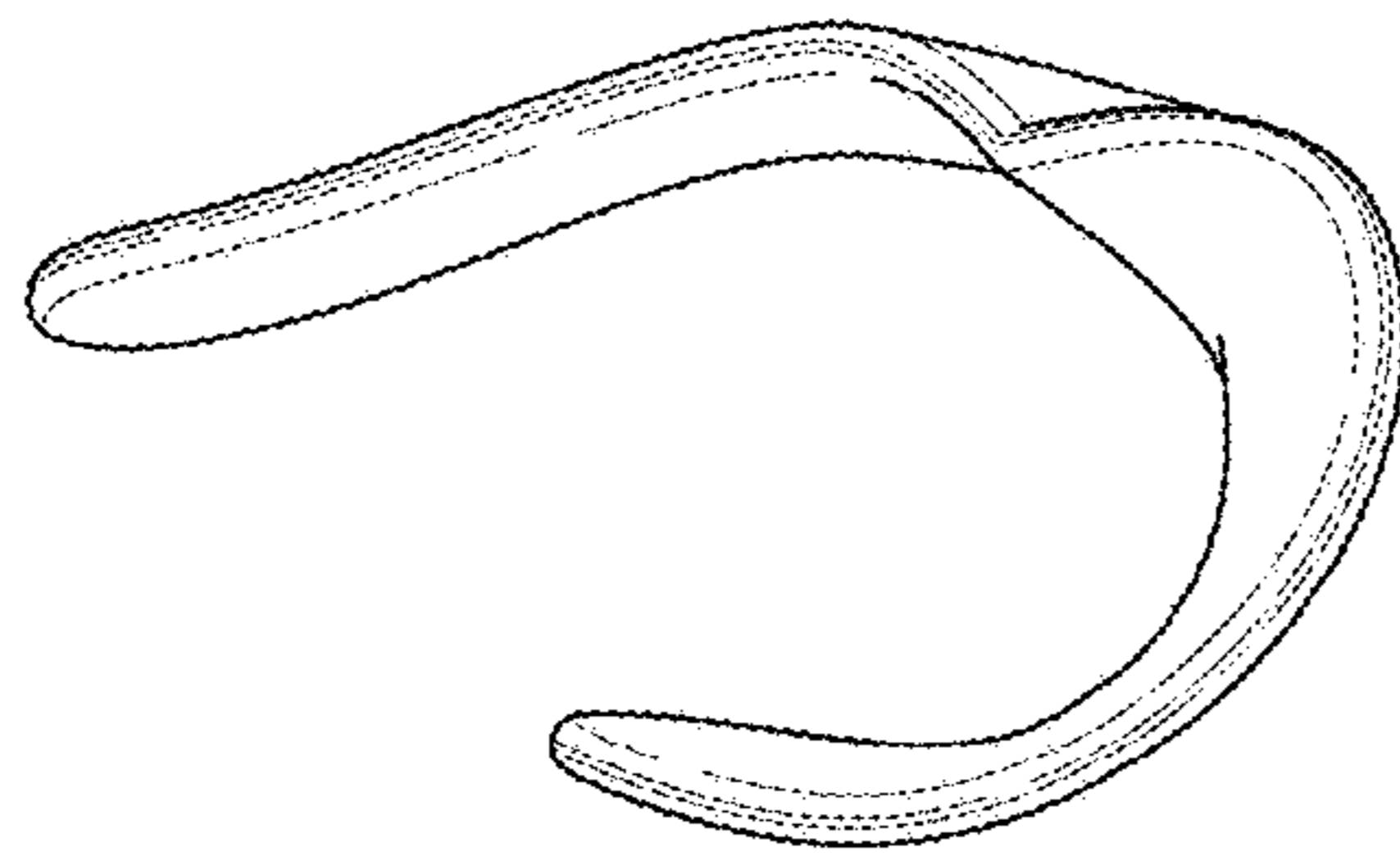


FIG. 12

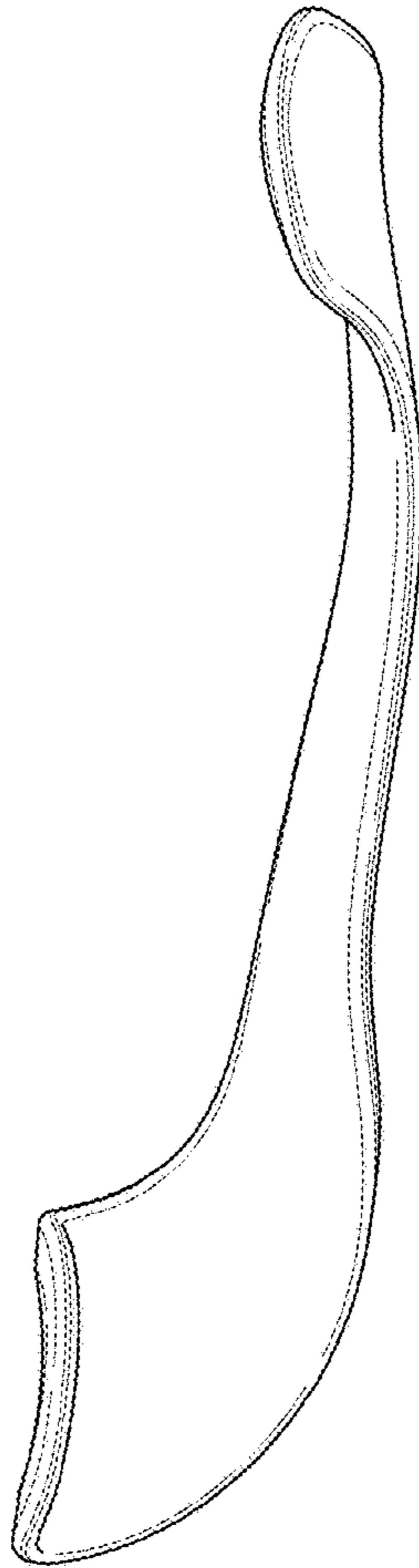


FIG. 14

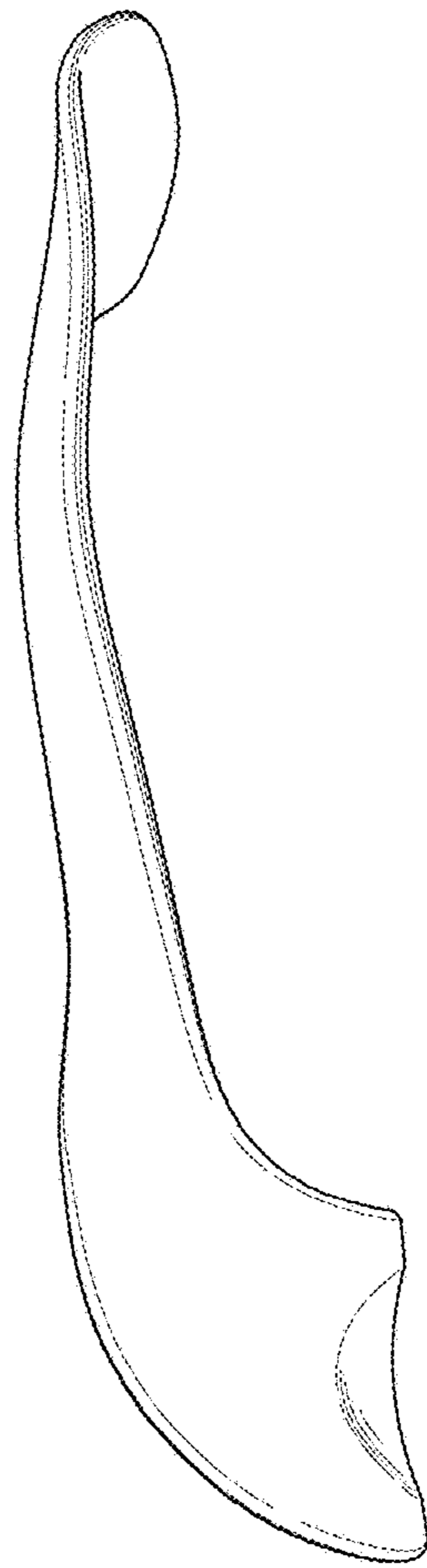


FIG. 15



FIG. 16



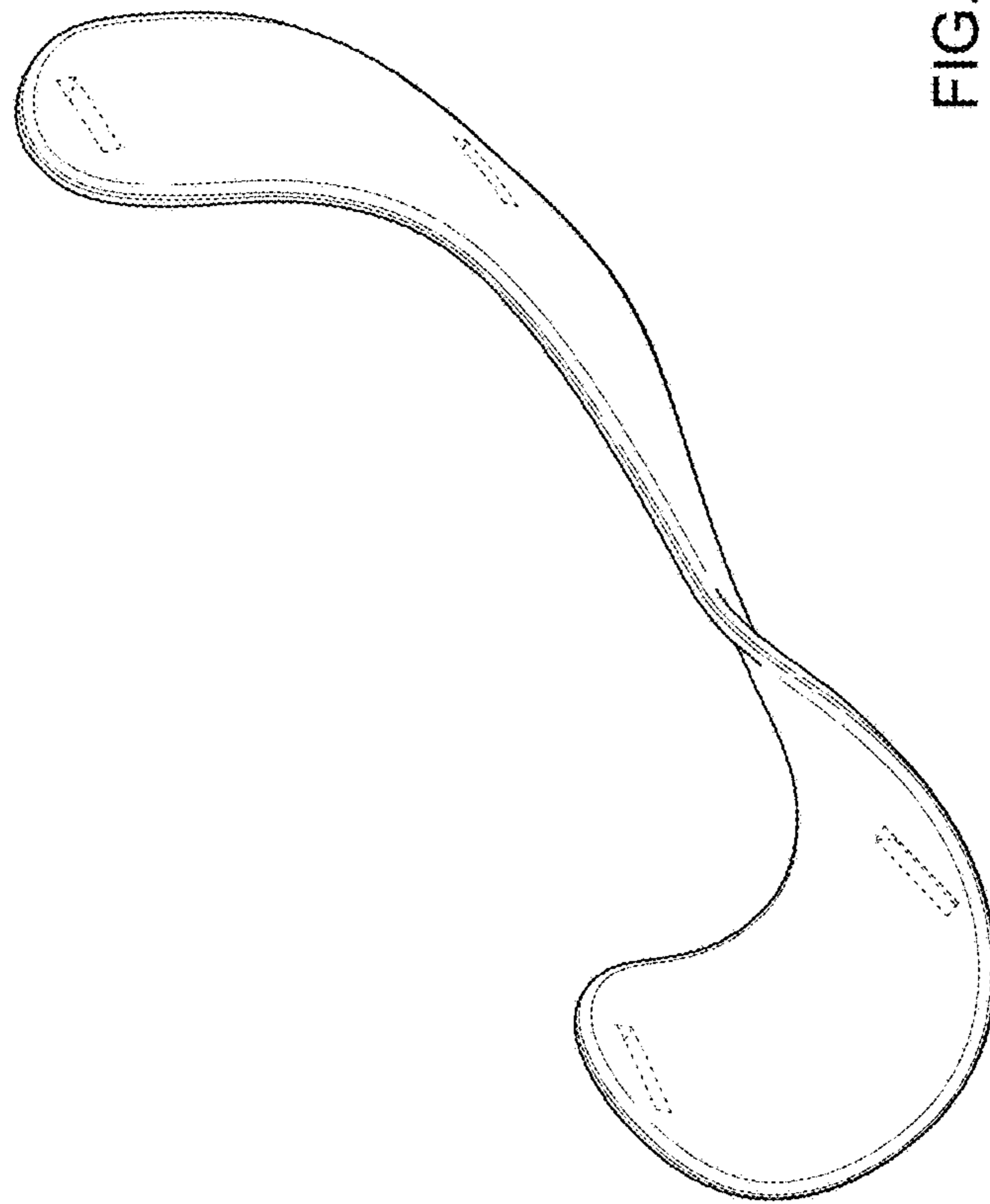


FIG. 17

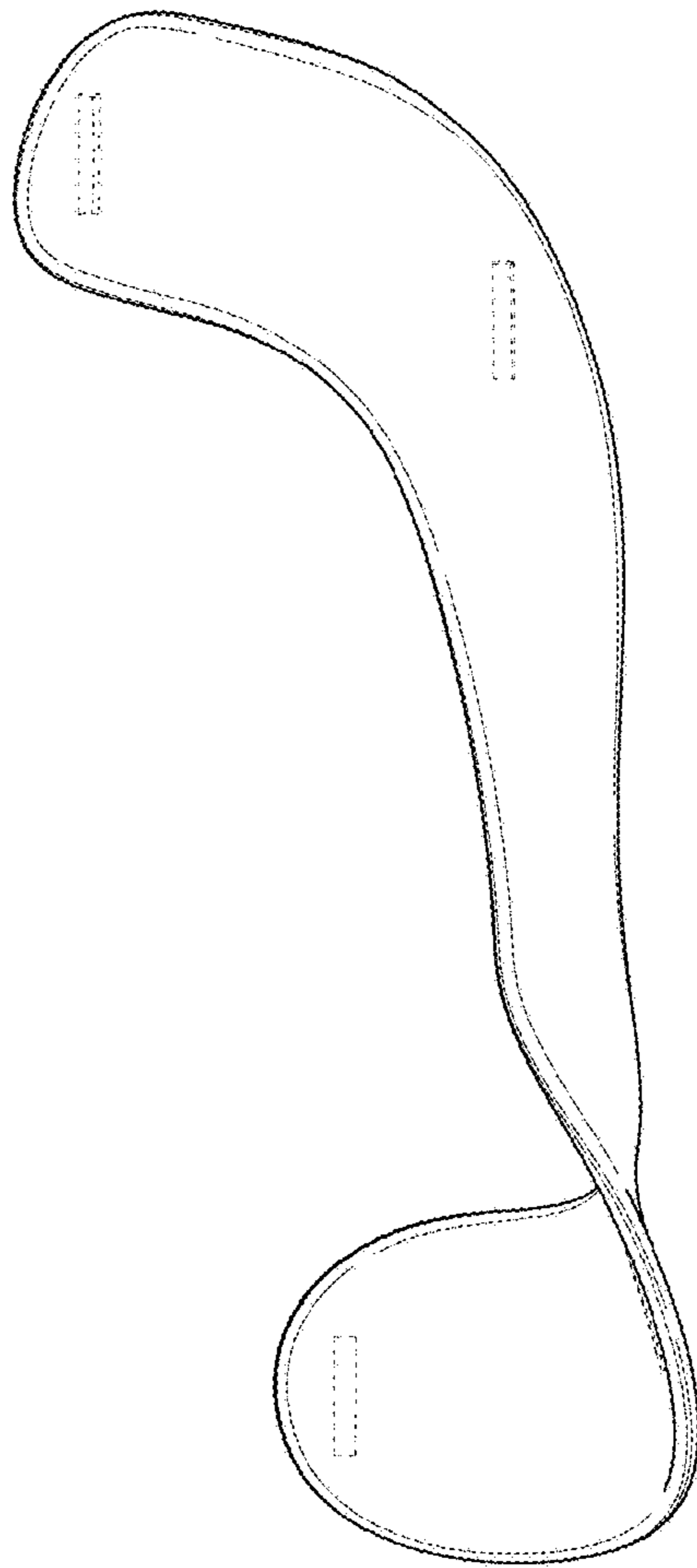


FIG. 18

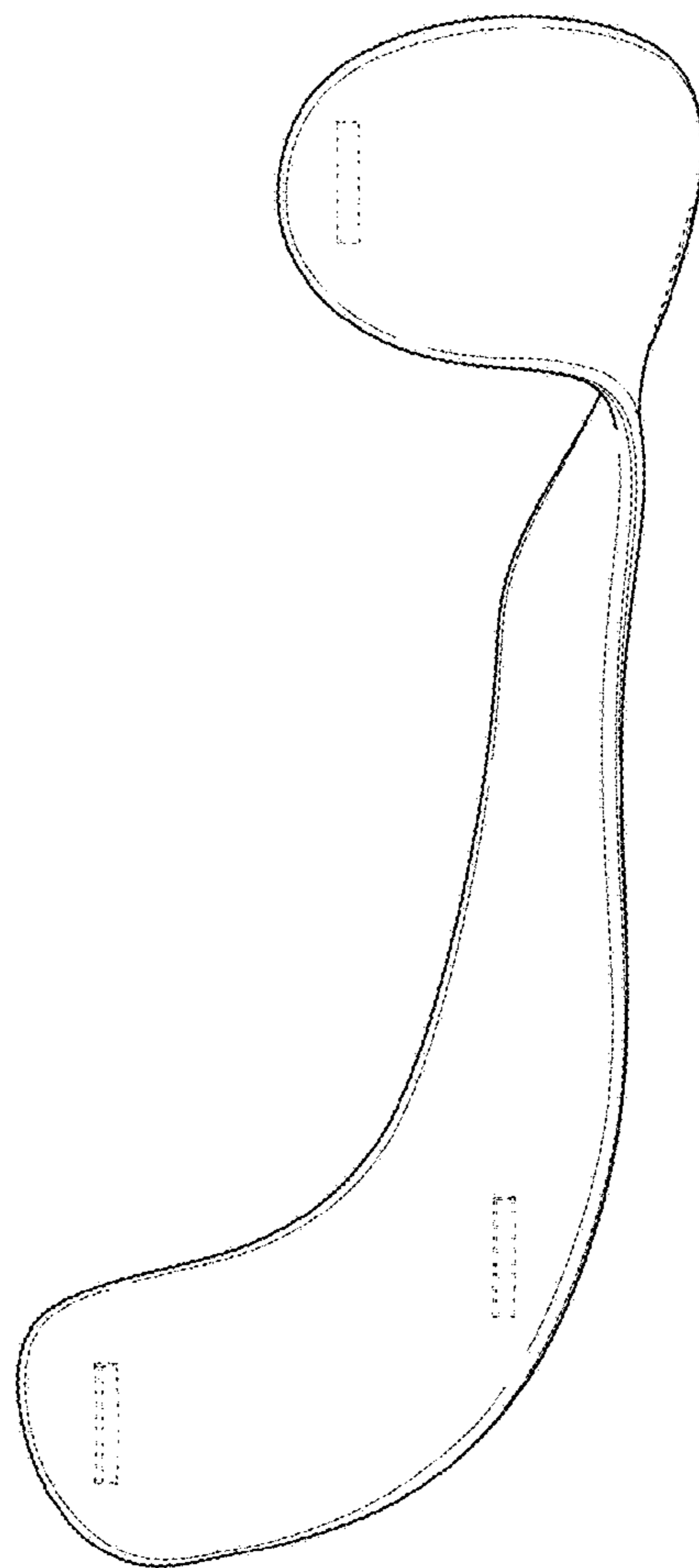


FIG. 19

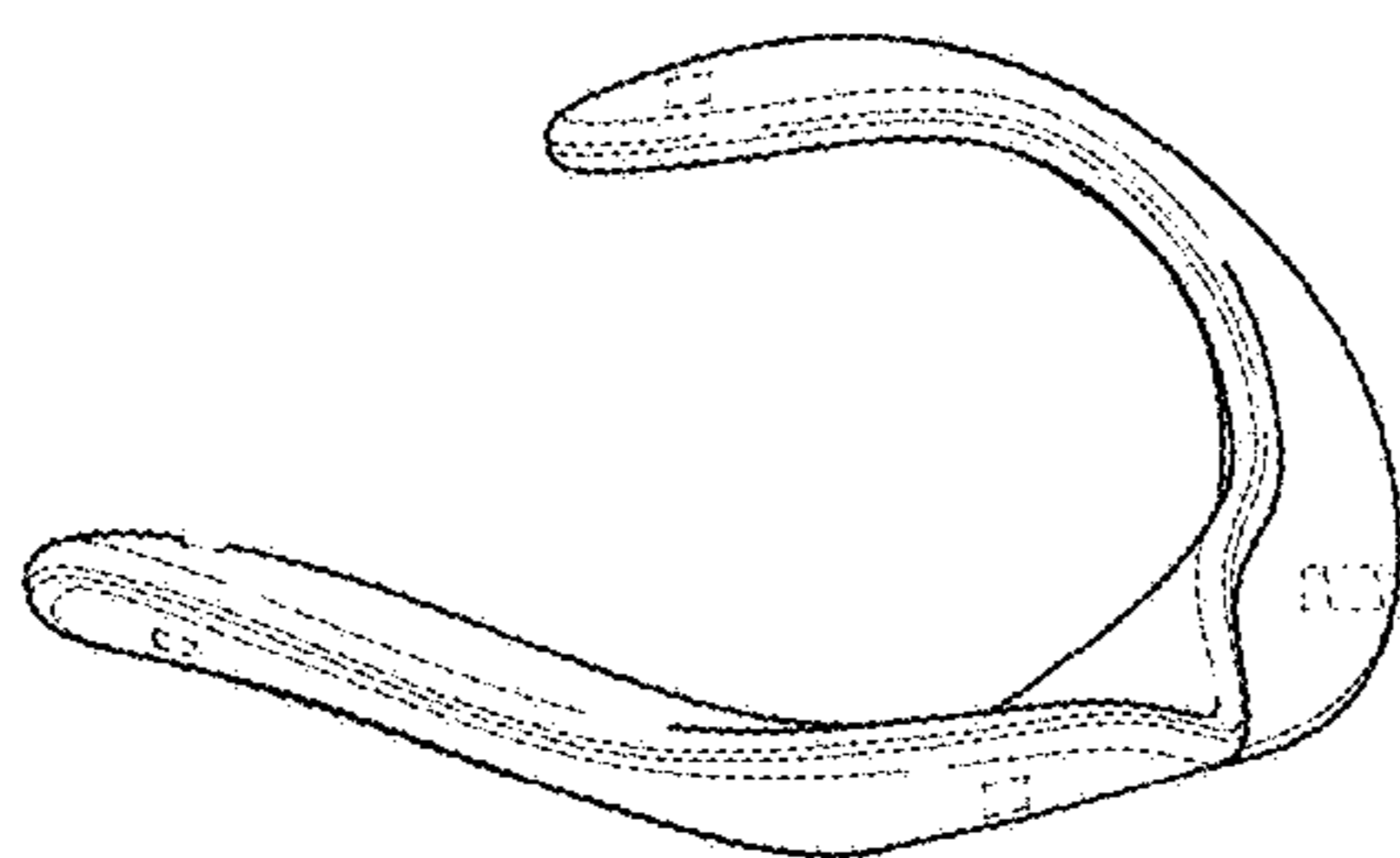


FIG. 21

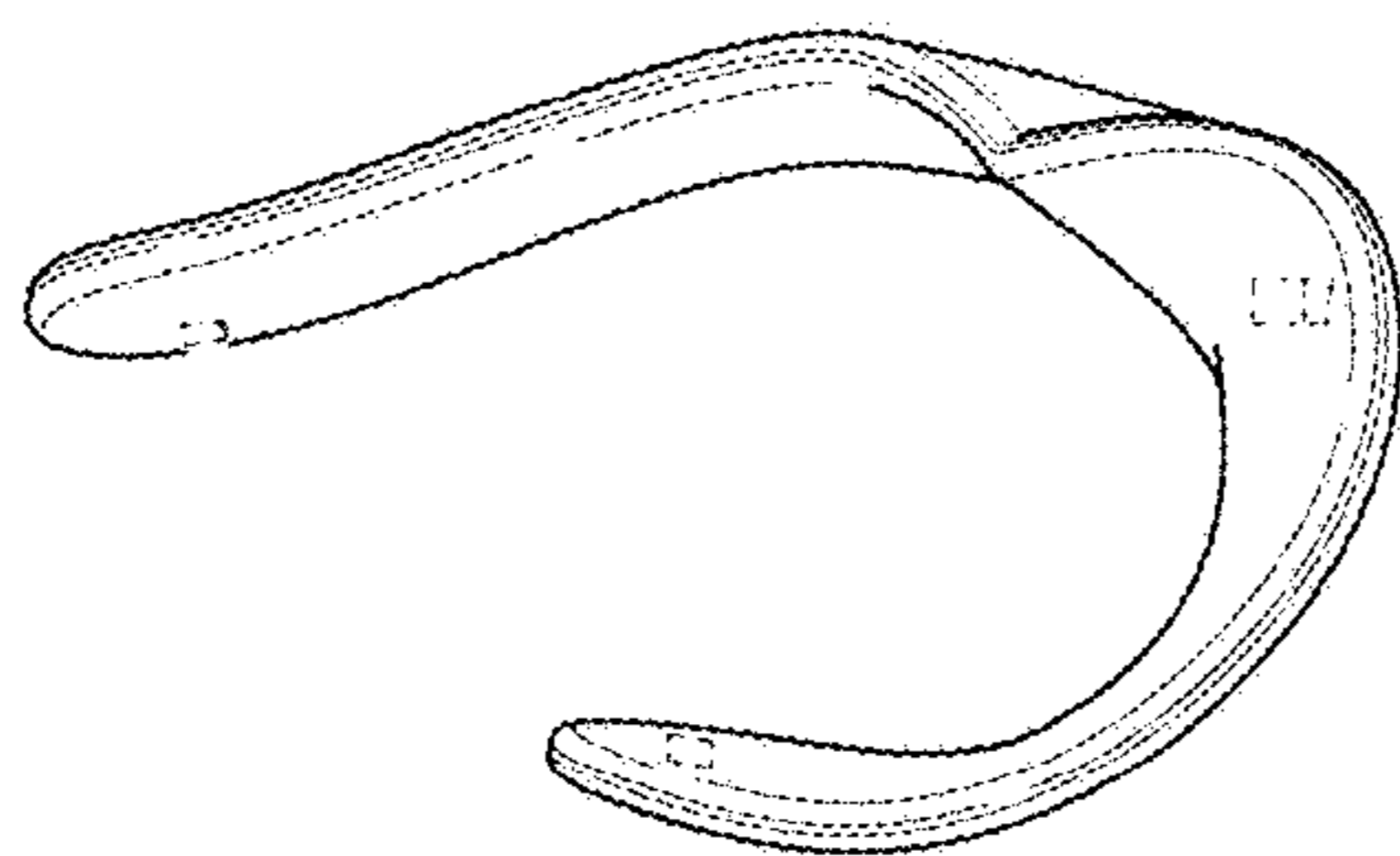


FIG. 20

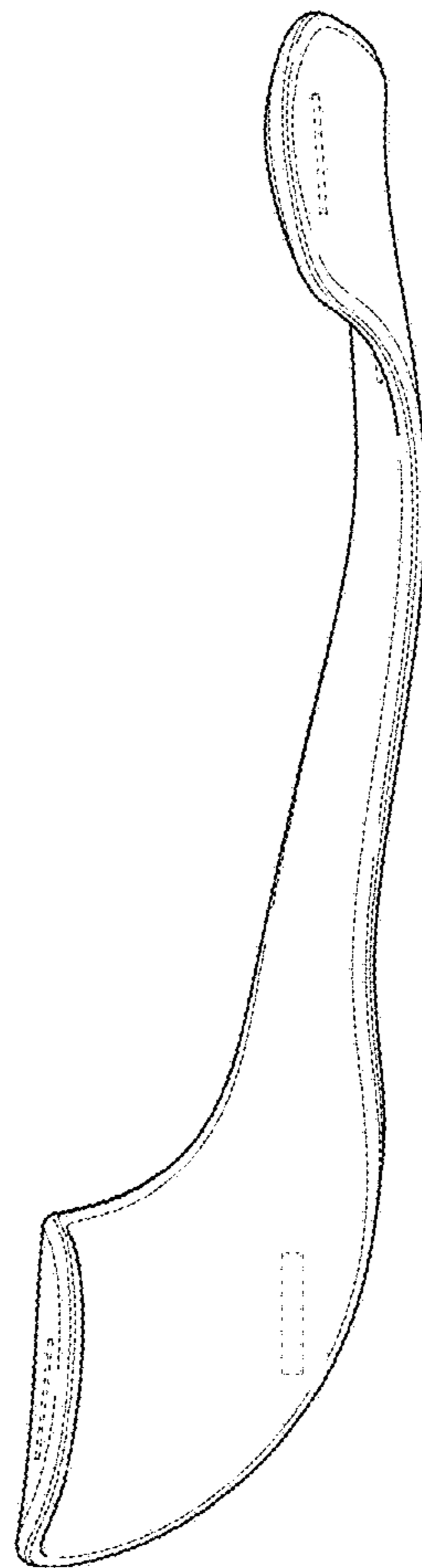


FIG. 22

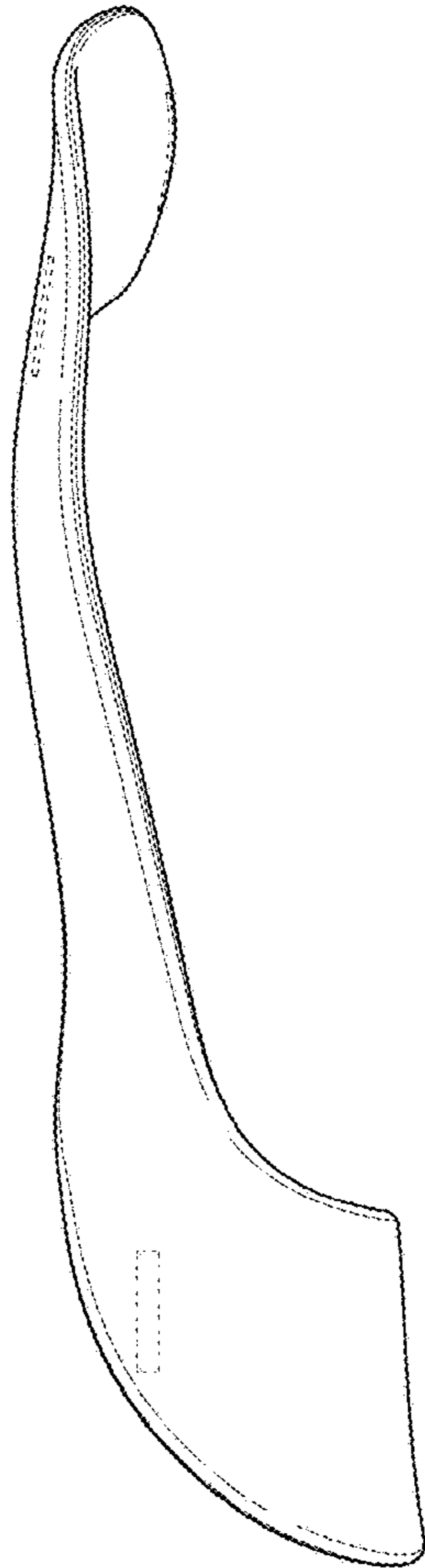


FIG. 23

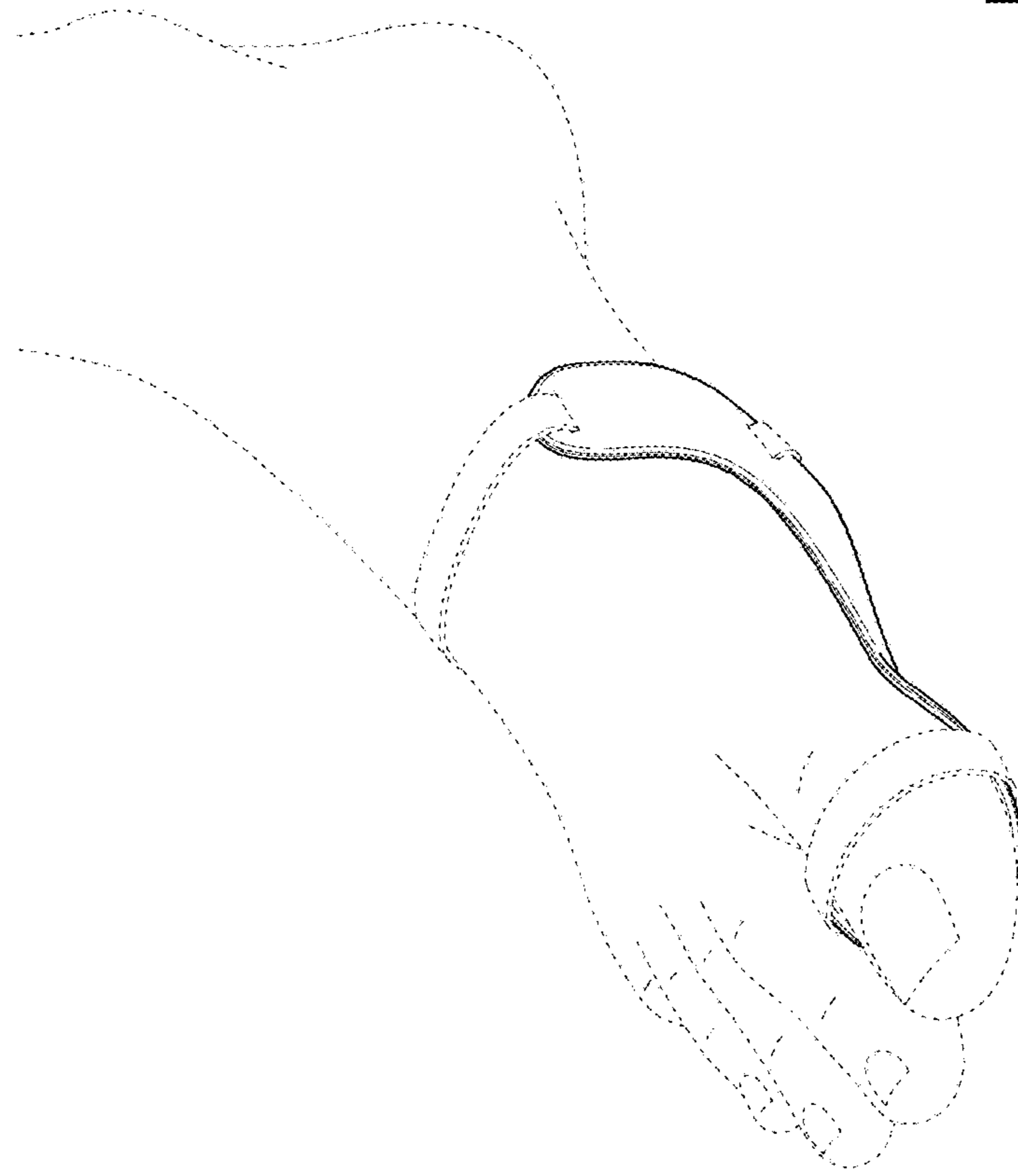


FIG. 24