



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)

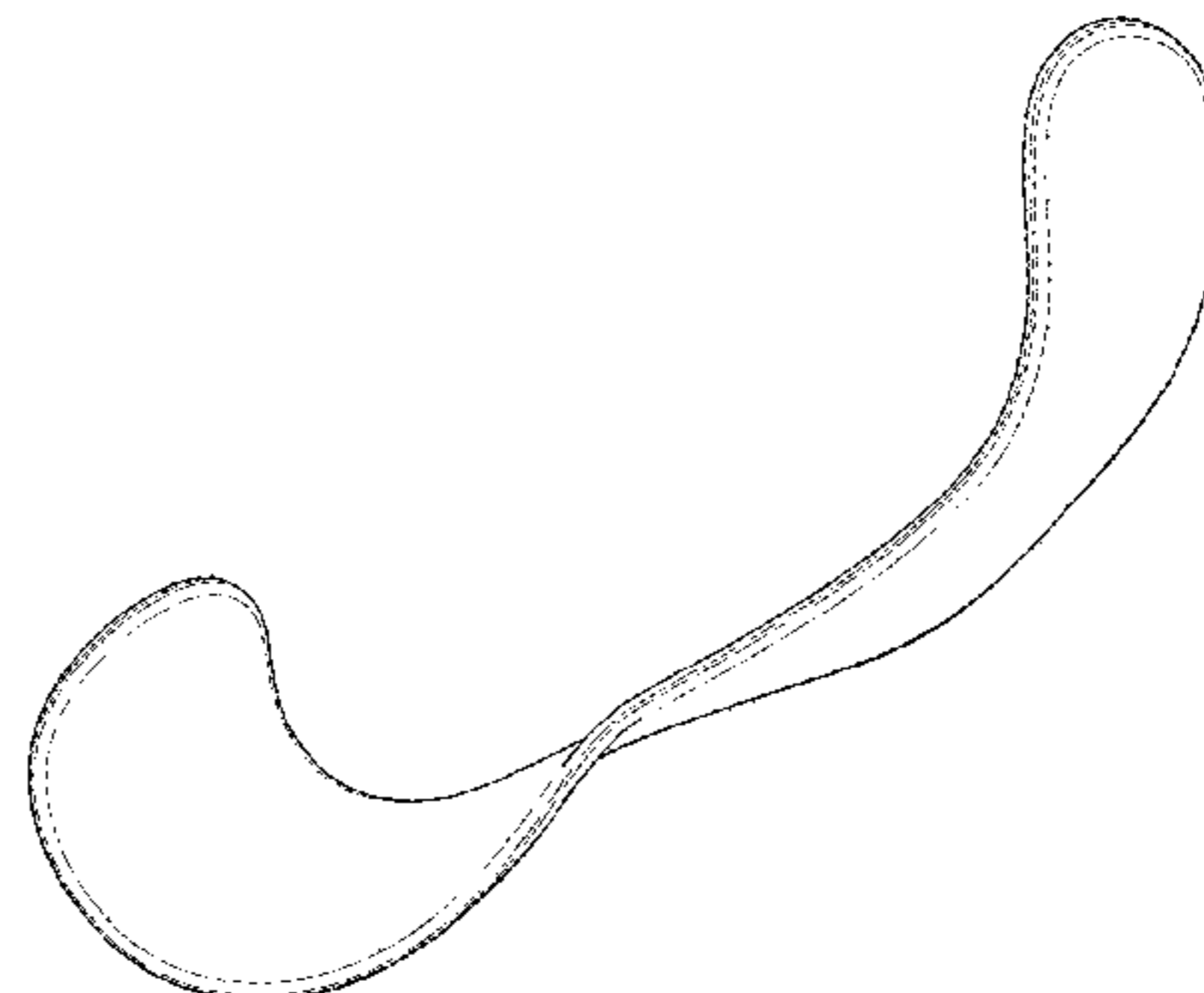
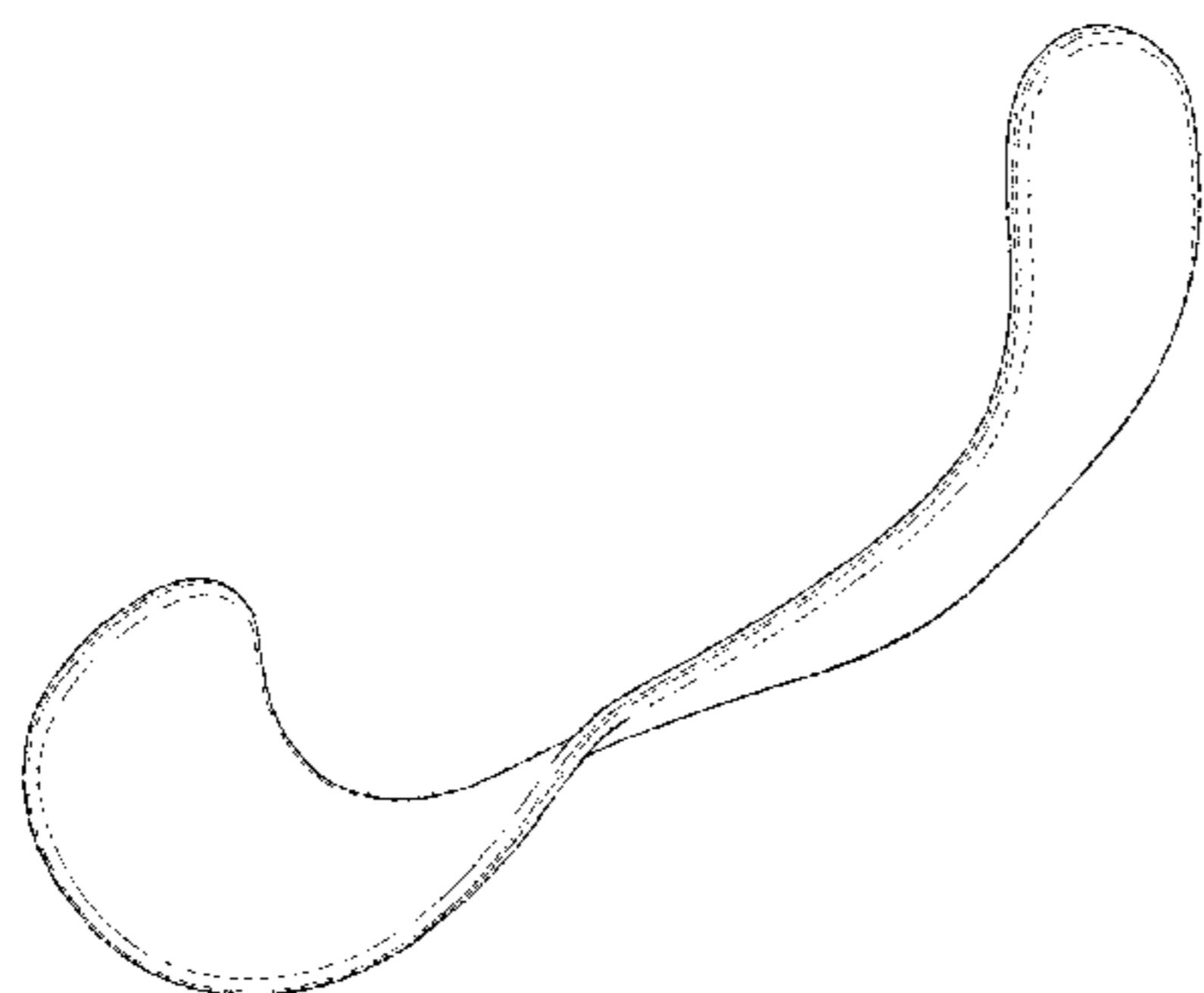


FIG. 19 is a left-side elevation view of the orthosis shown in FIG. 17;

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

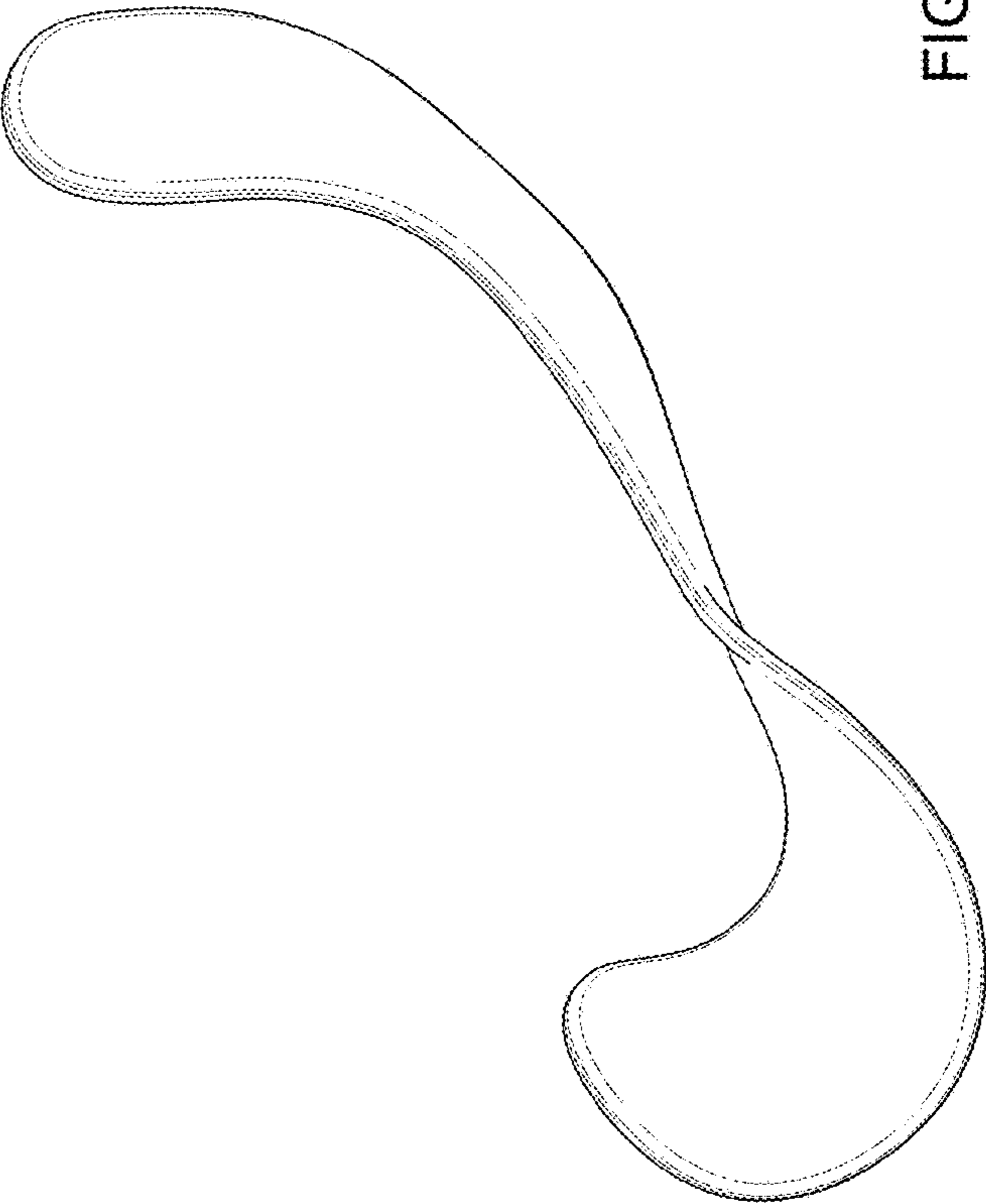


FIG. 1

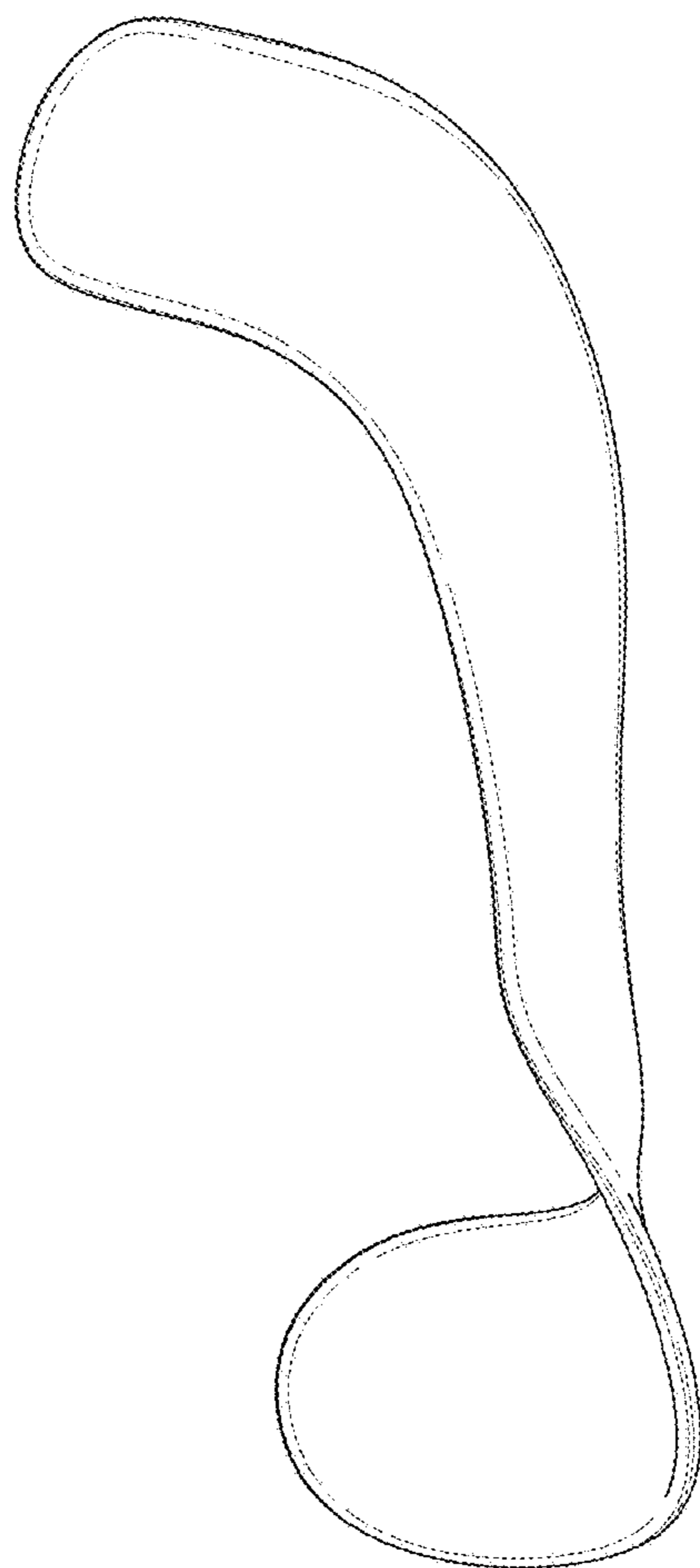


FIG. 2

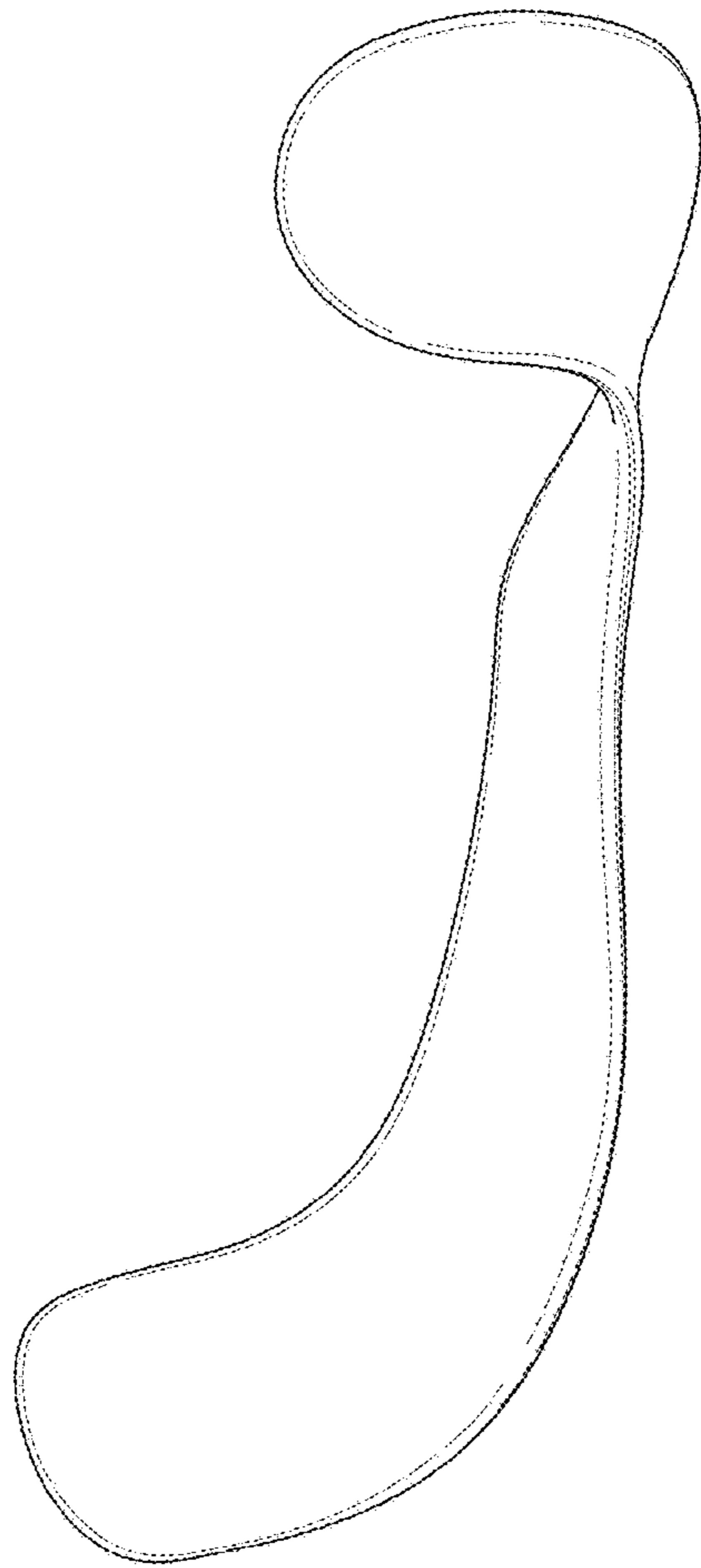


FIG. 3

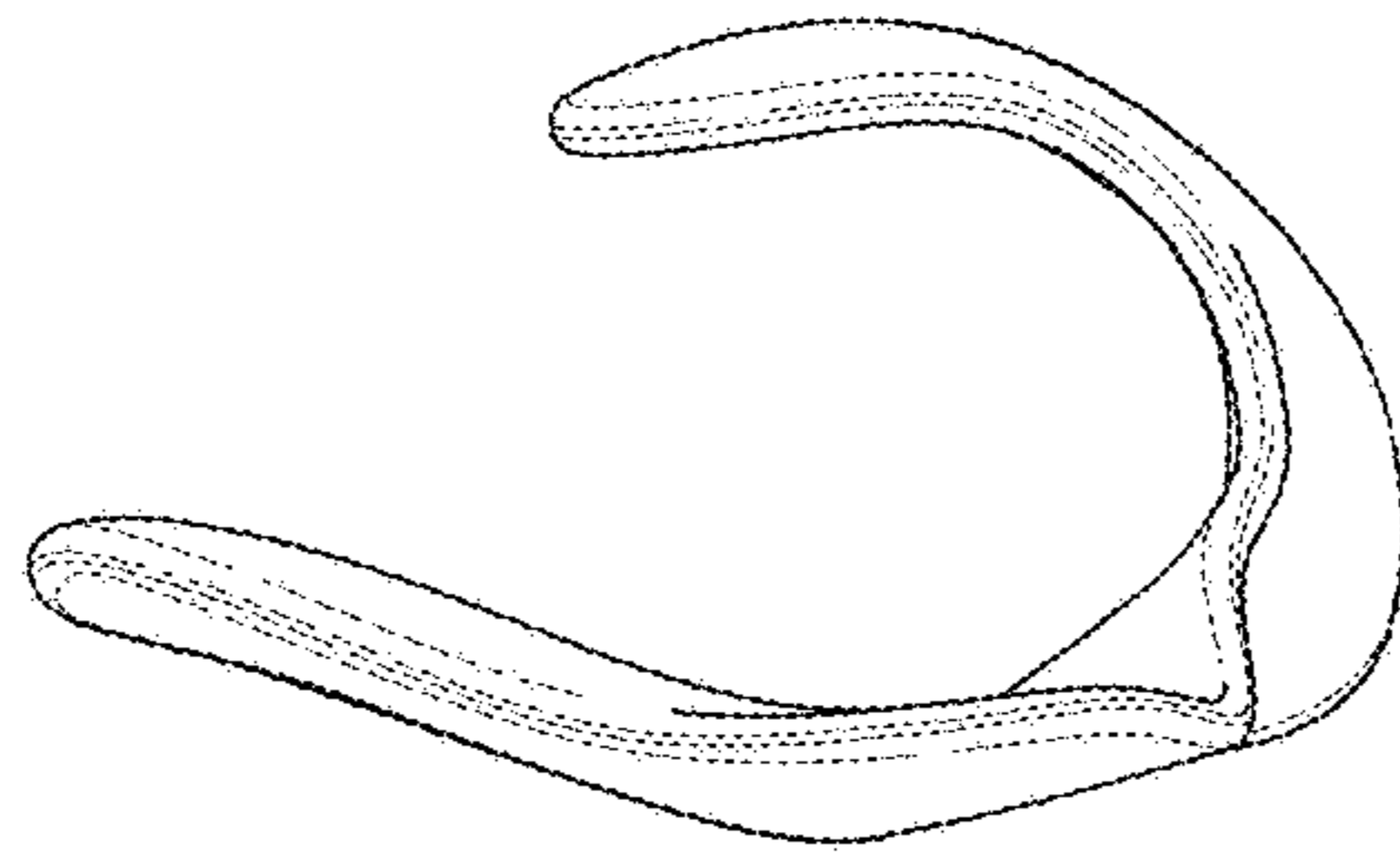


FIG. 5

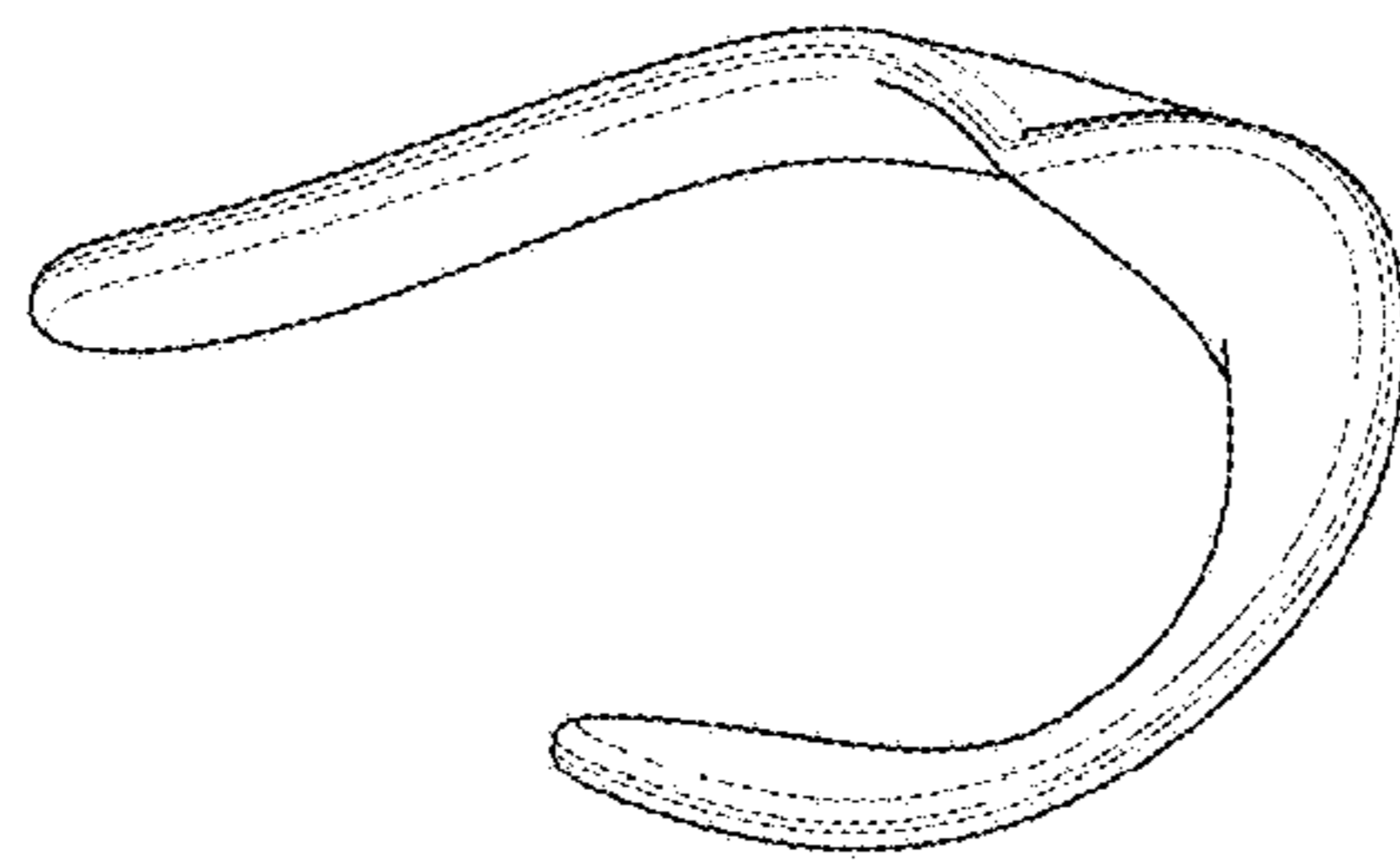


FIG. 4

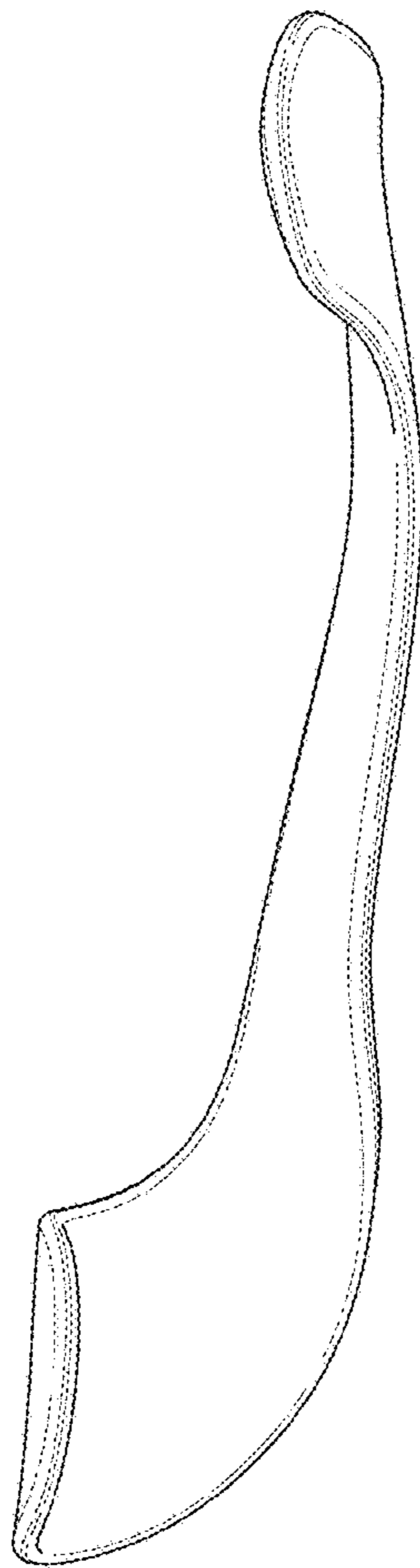


FIG. 6

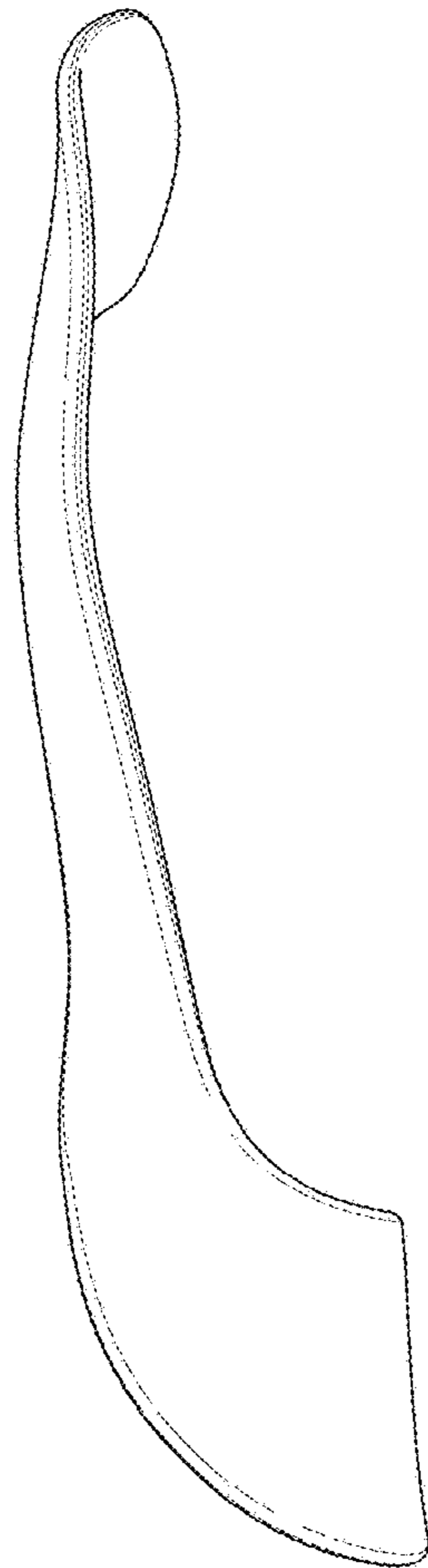


FIG. 7

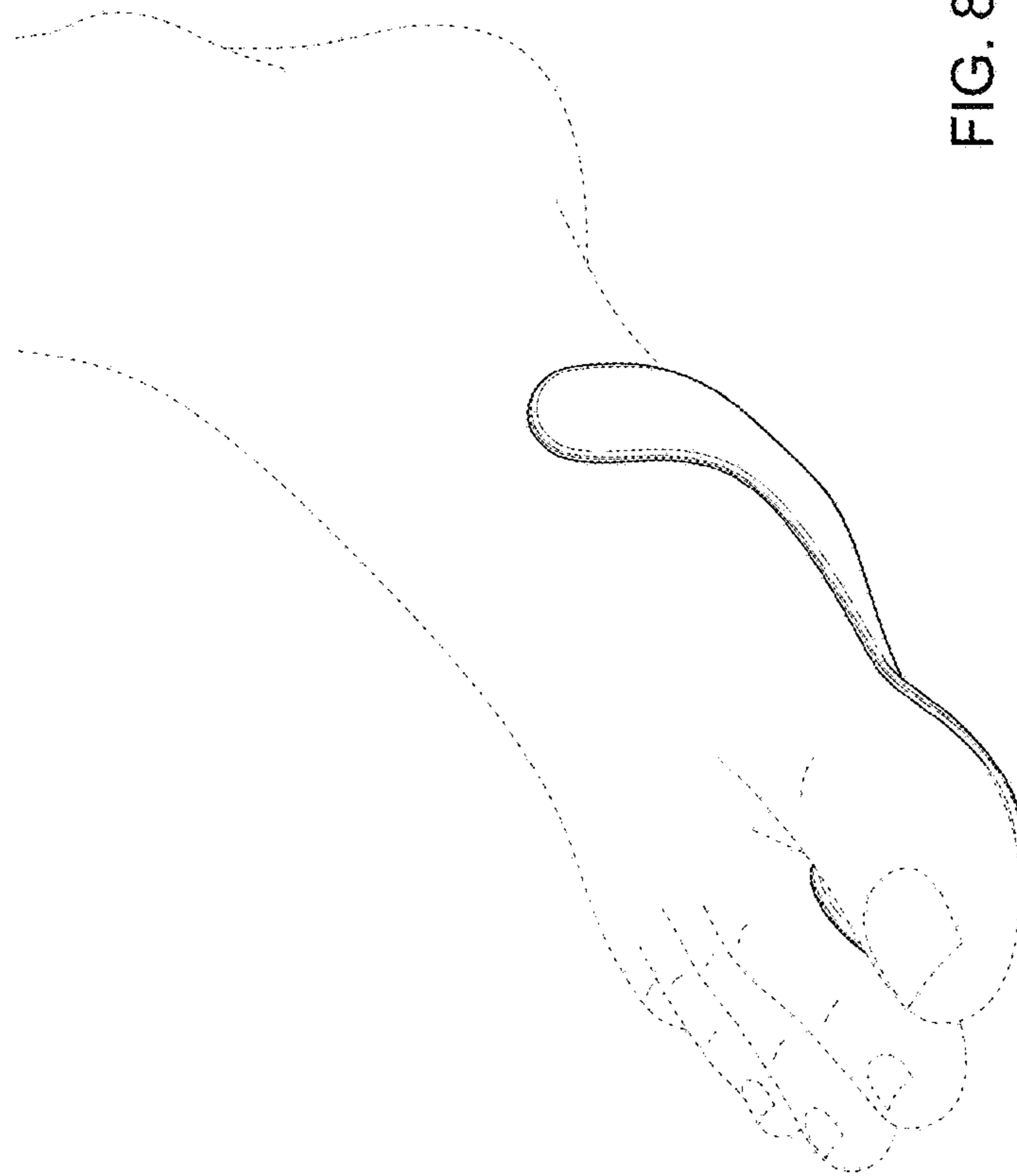


FIG. 8

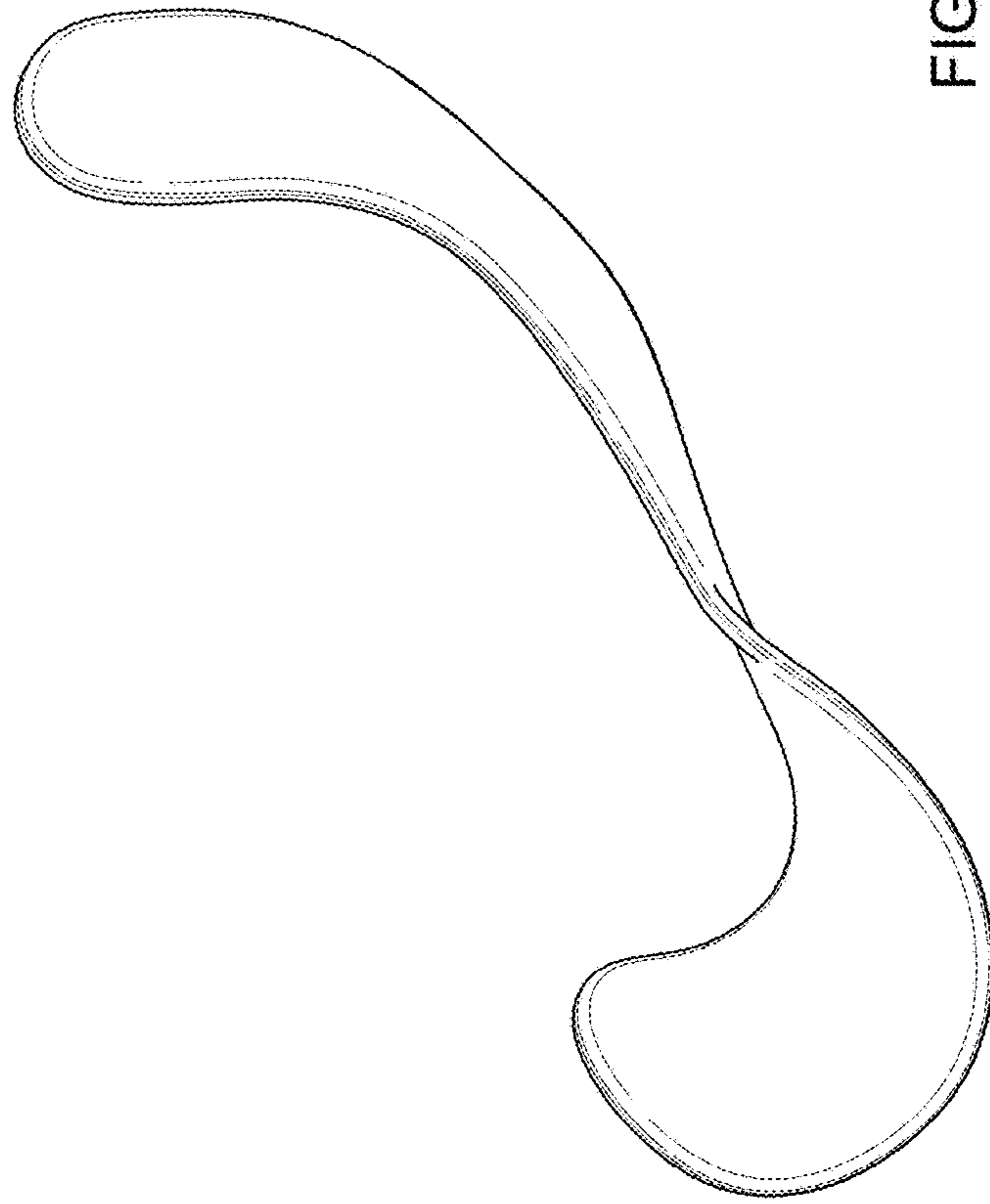


FIG. 9

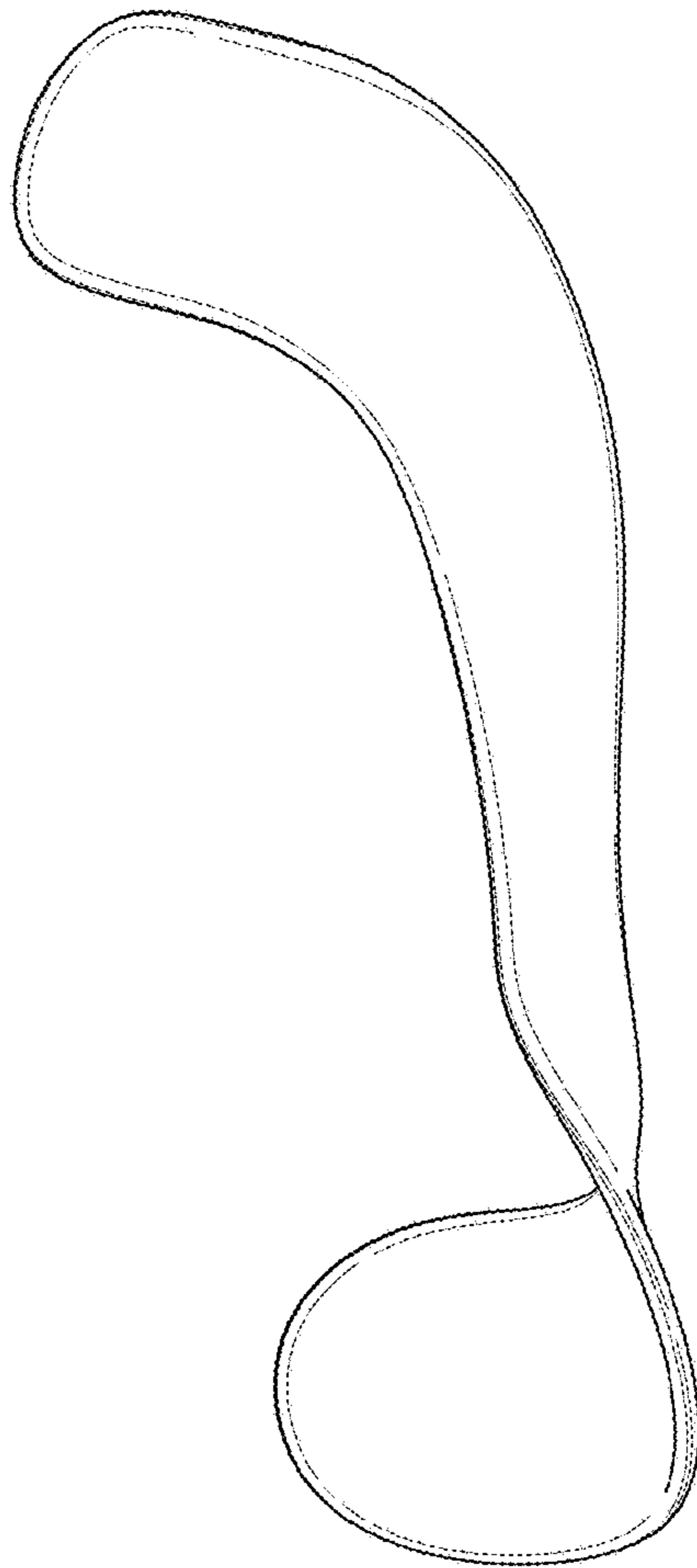


FIG. 10

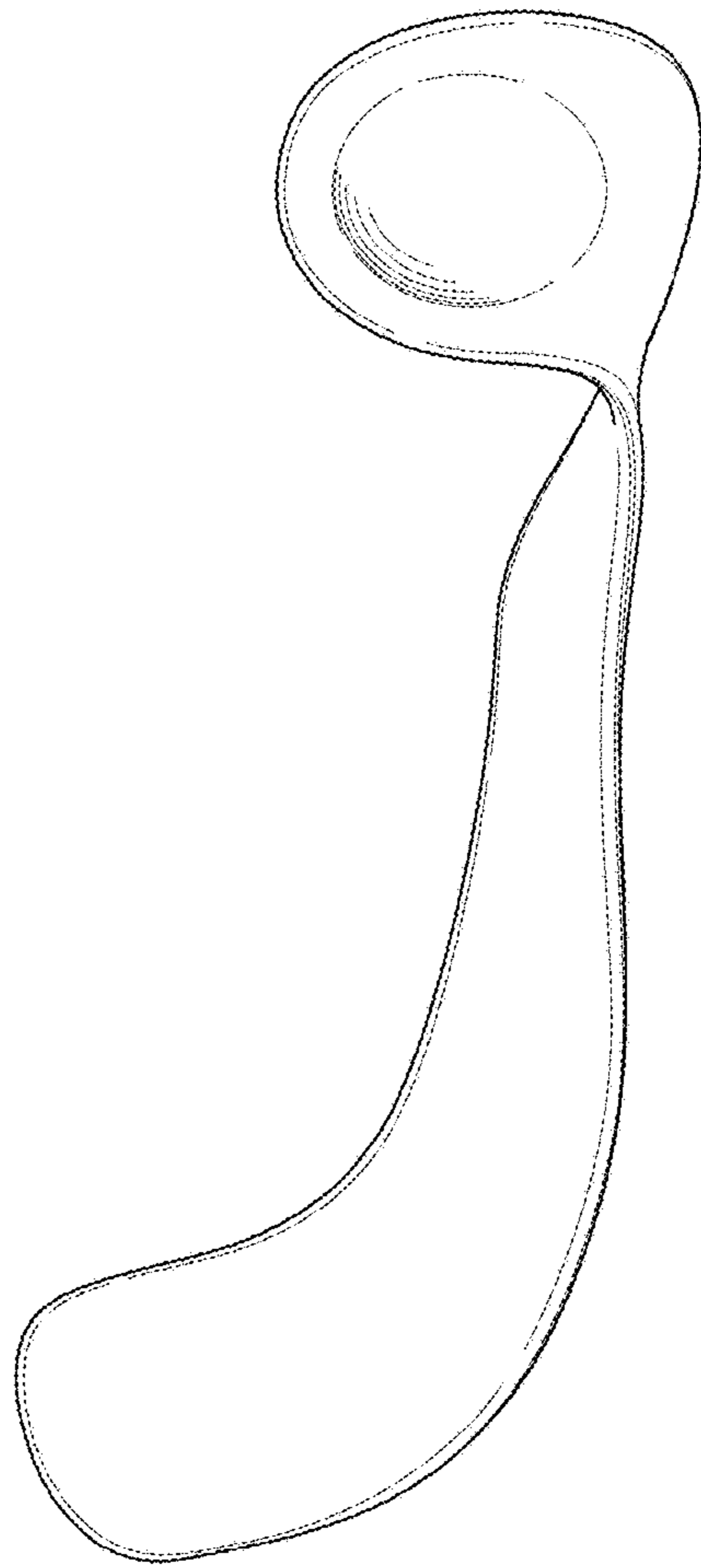


FIG. 11

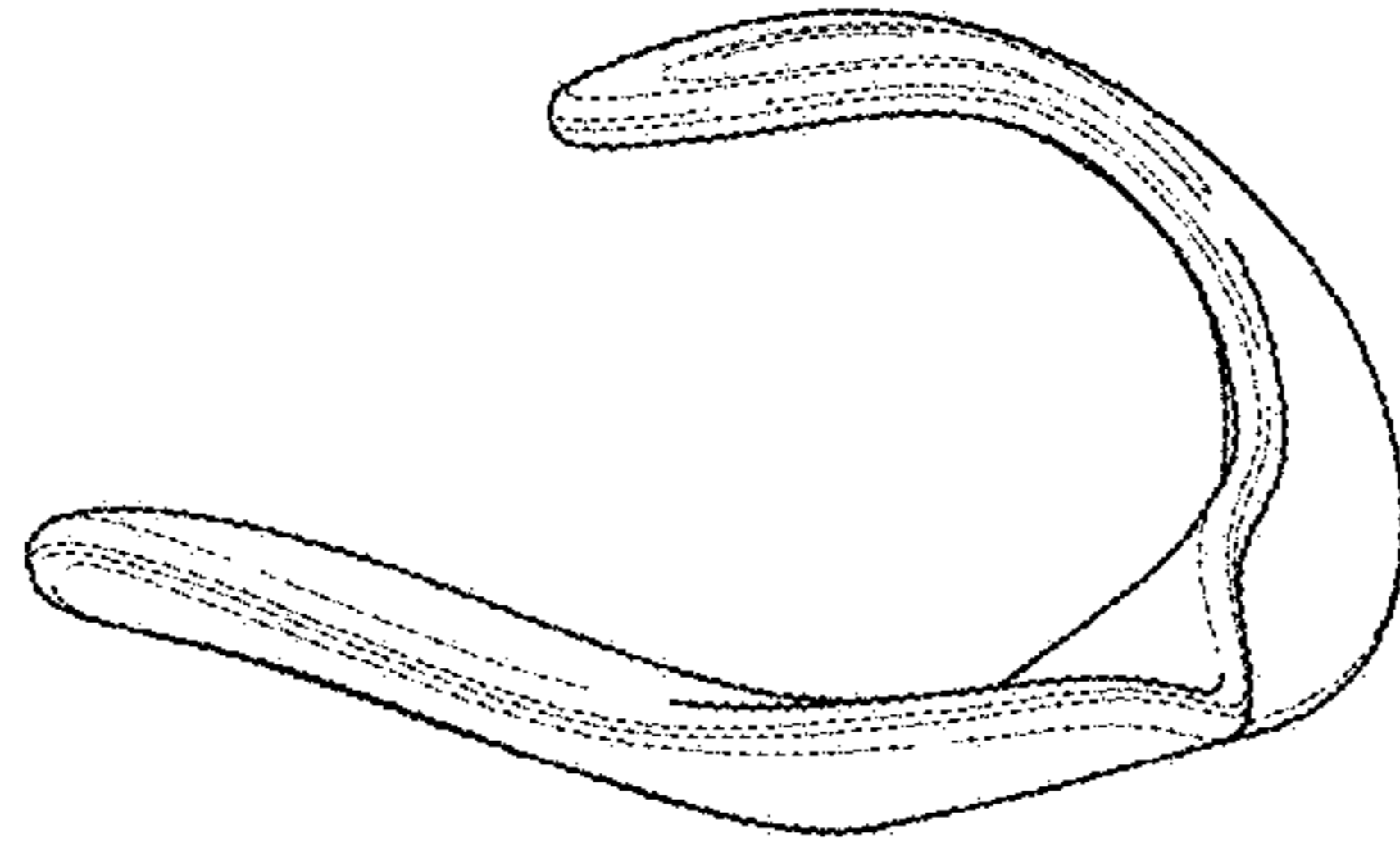


FIG. 13

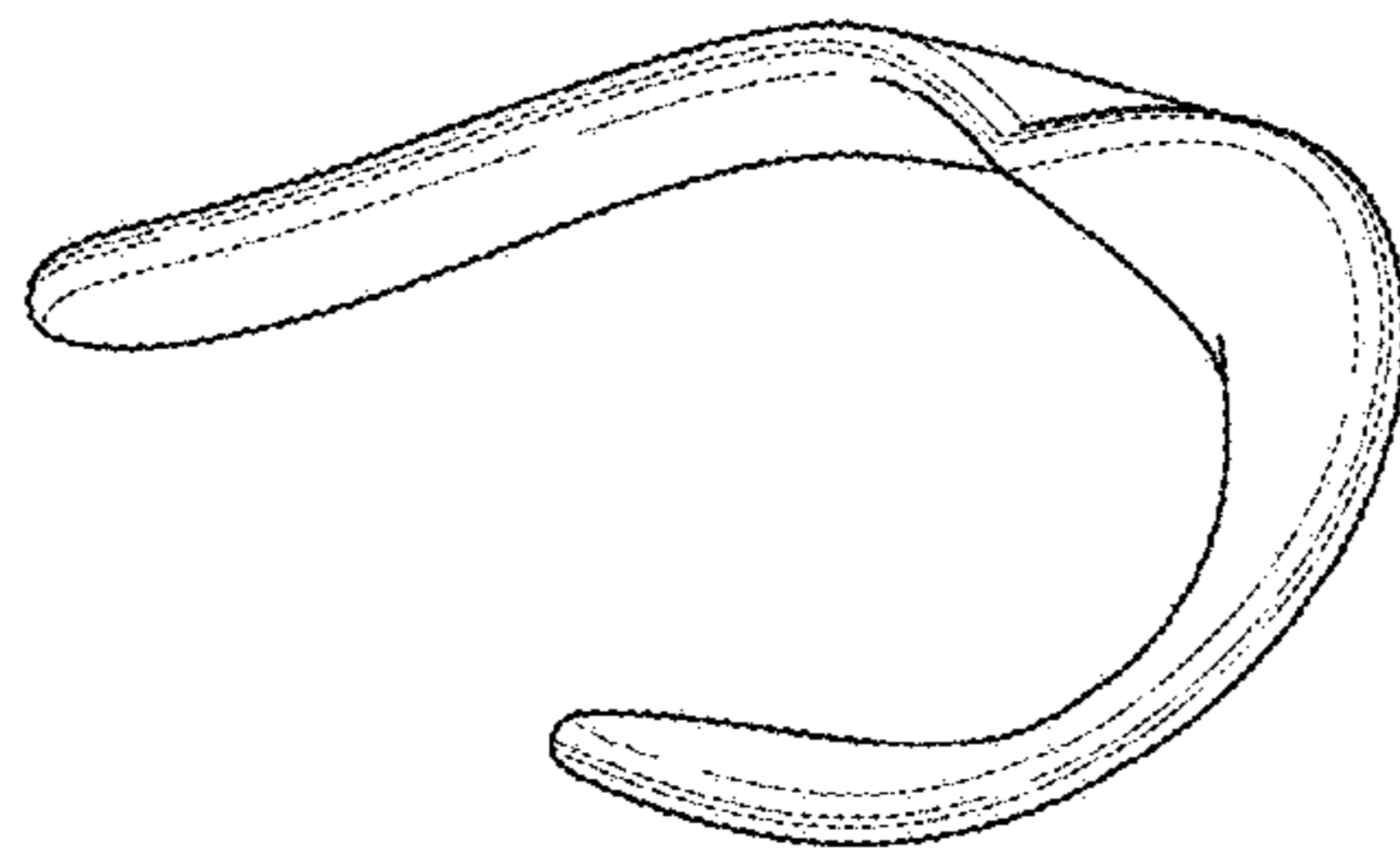


FIG. 12

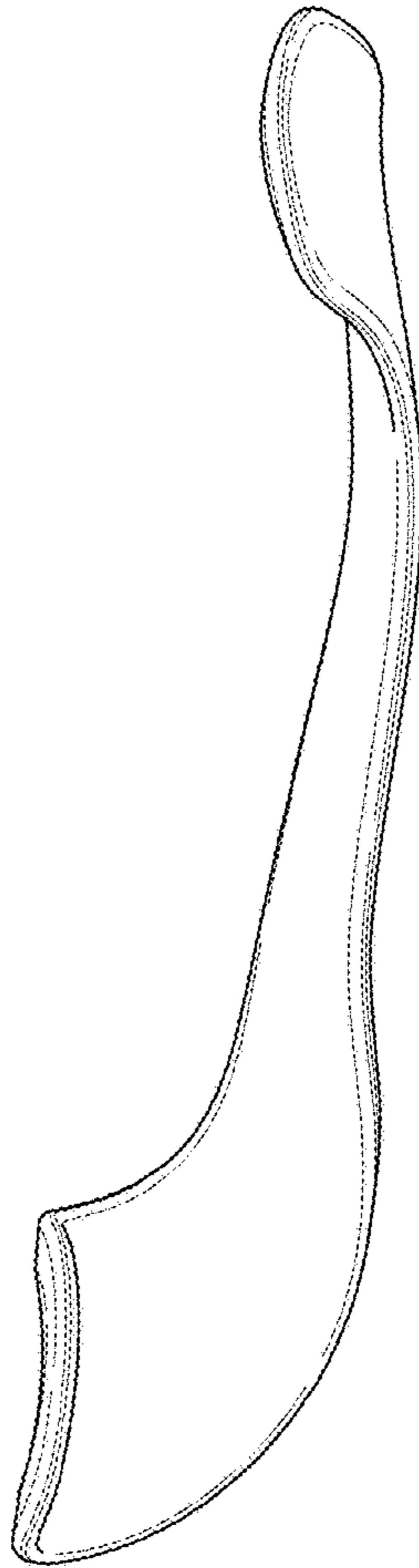


FIG. 14

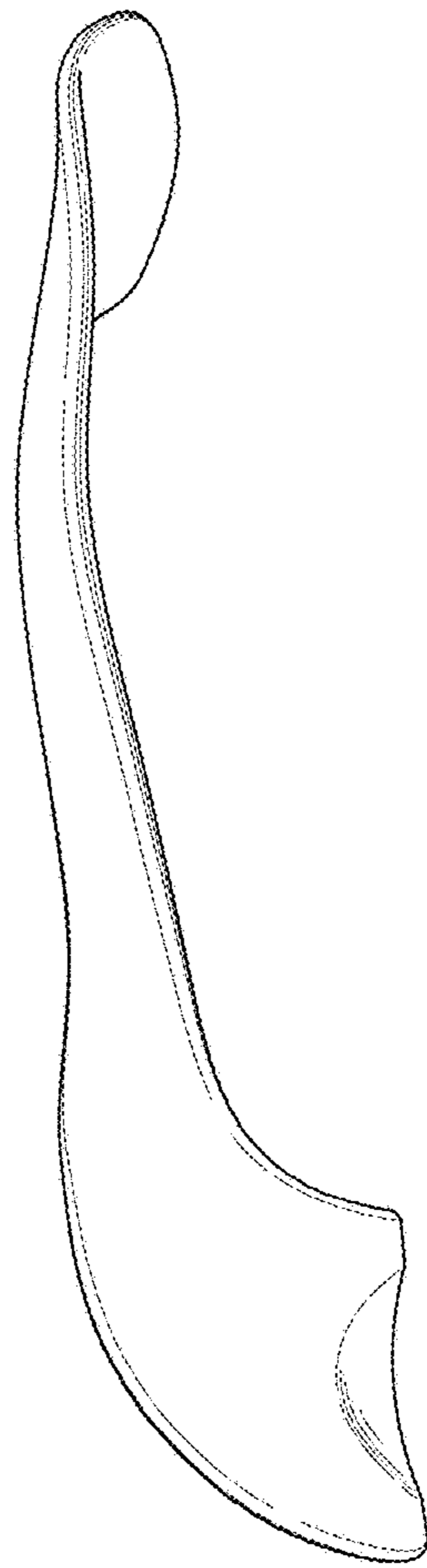


FIG. 15



FIG. 16

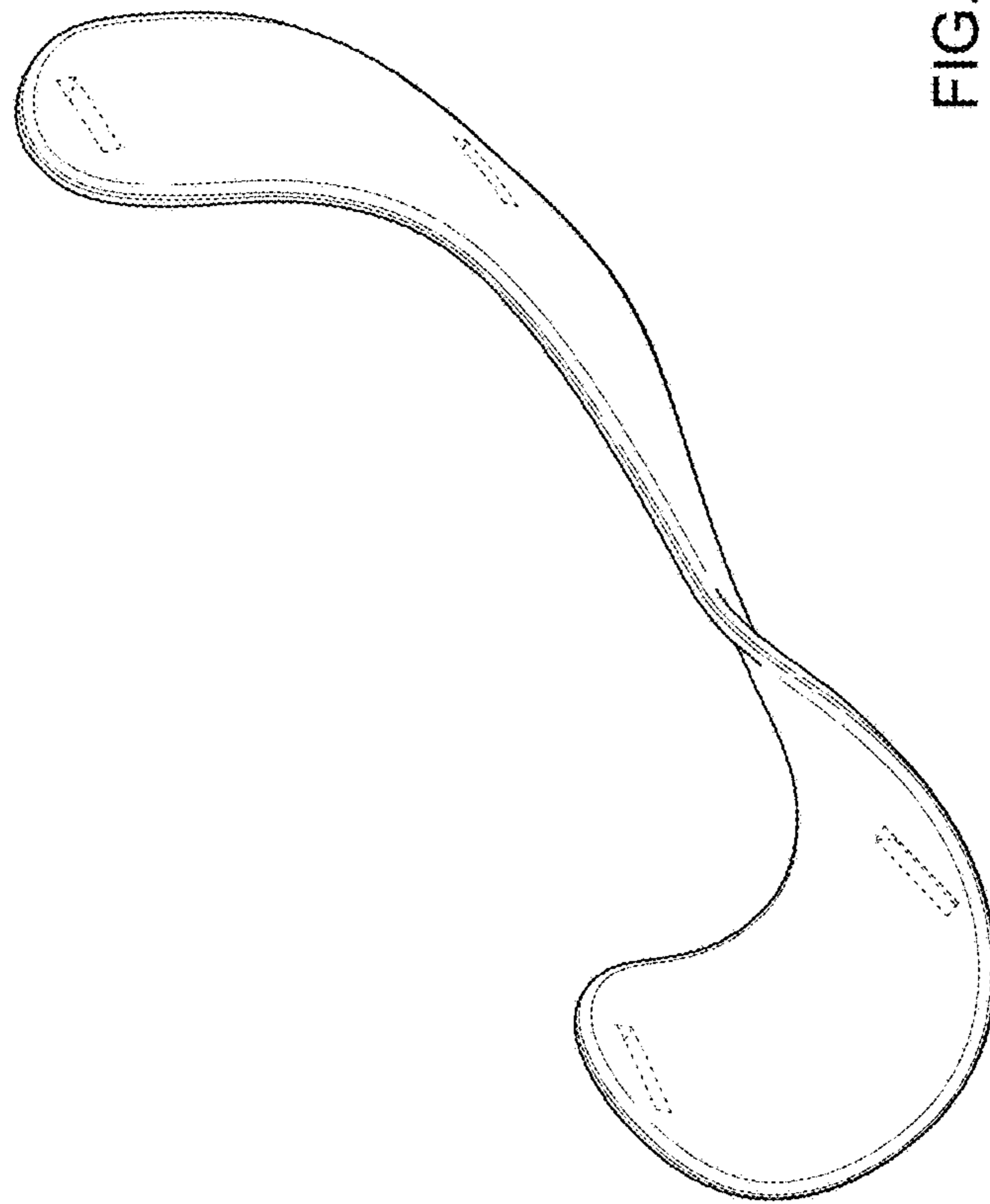


FIG. 17

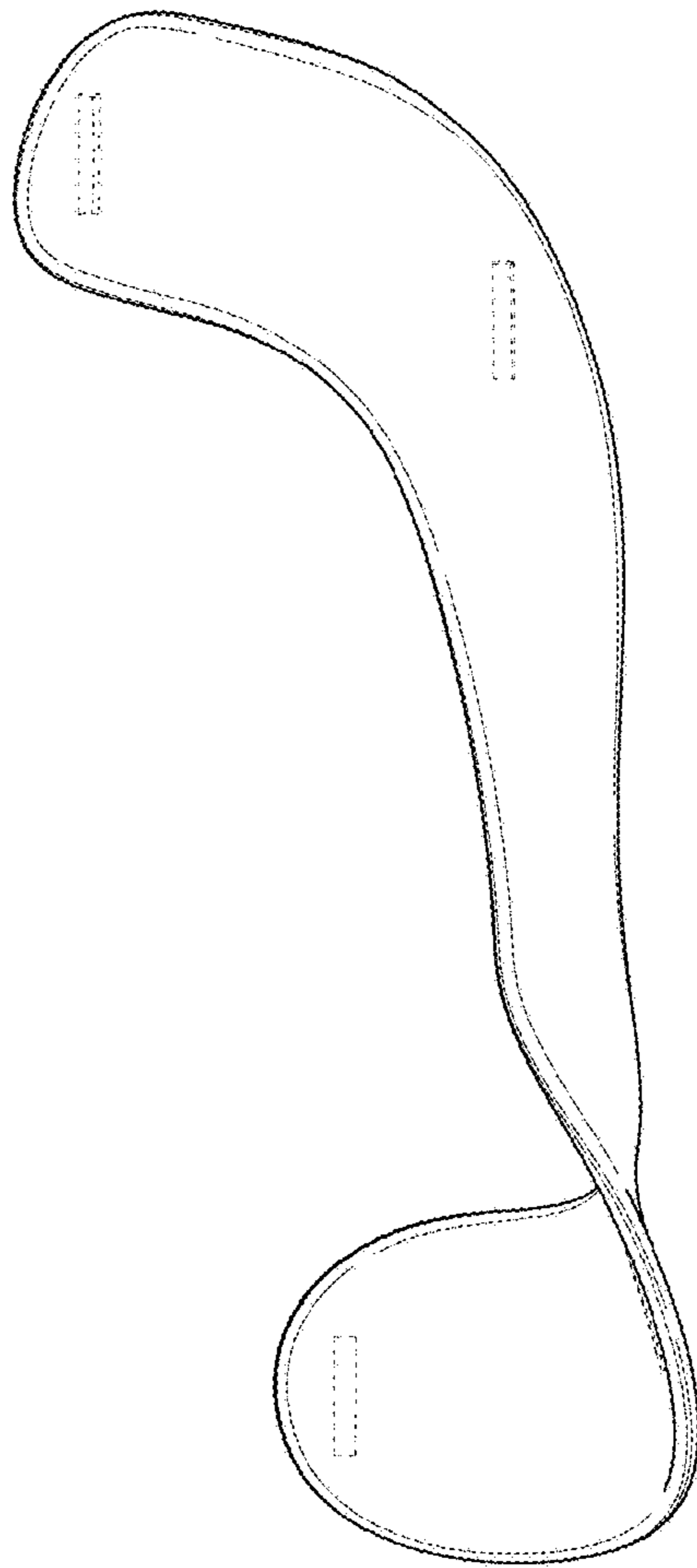


FIG. 18

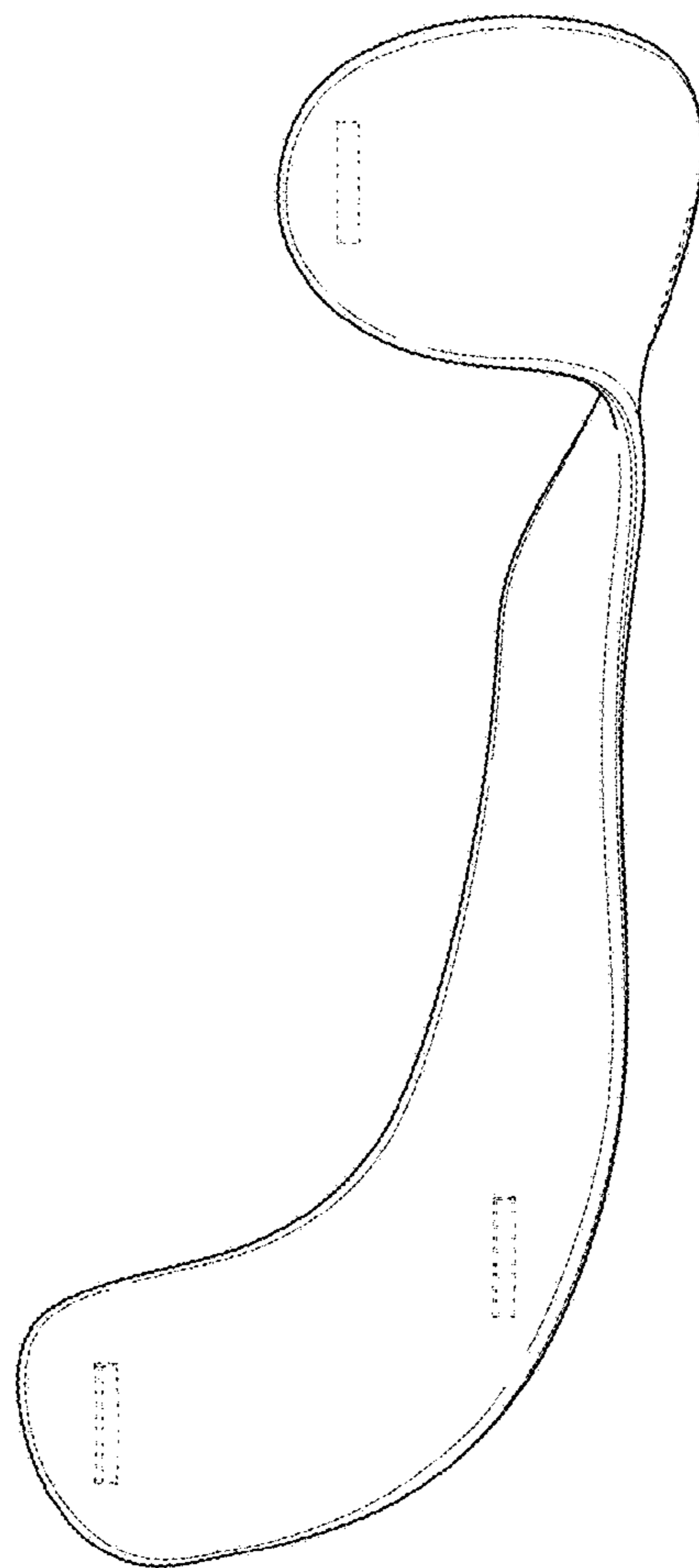


FIG. 19

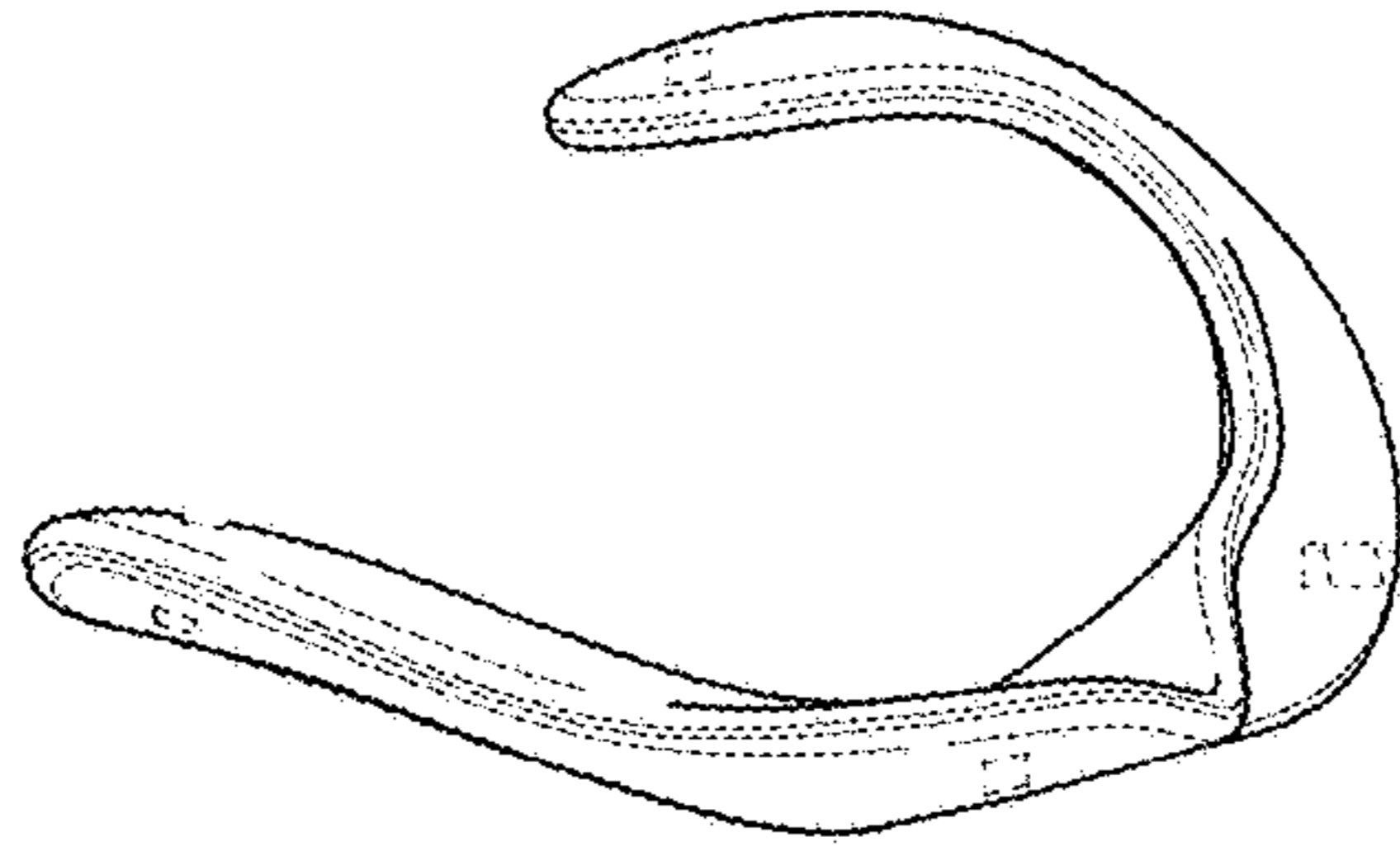


FIG. 21

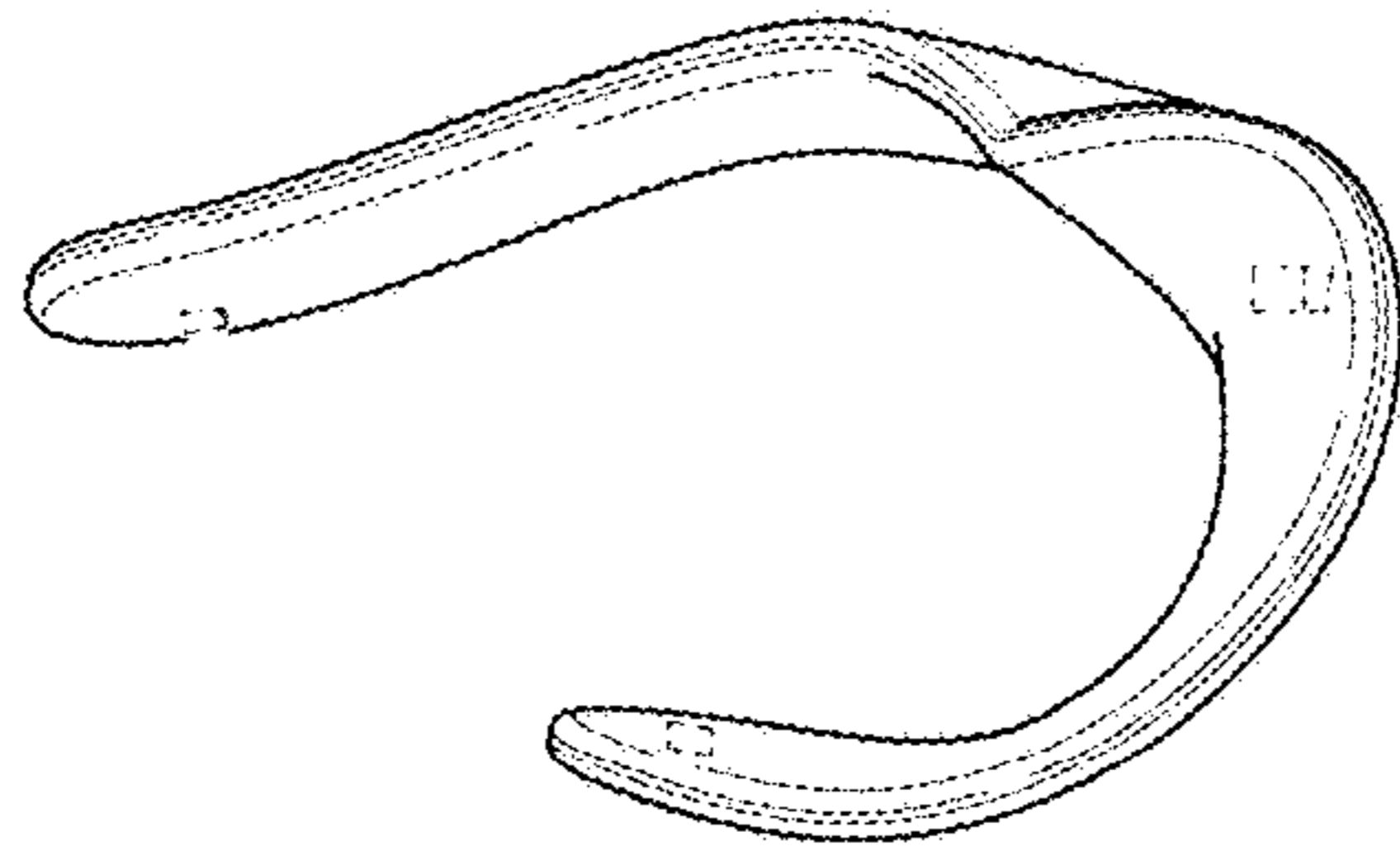


FIG. 20

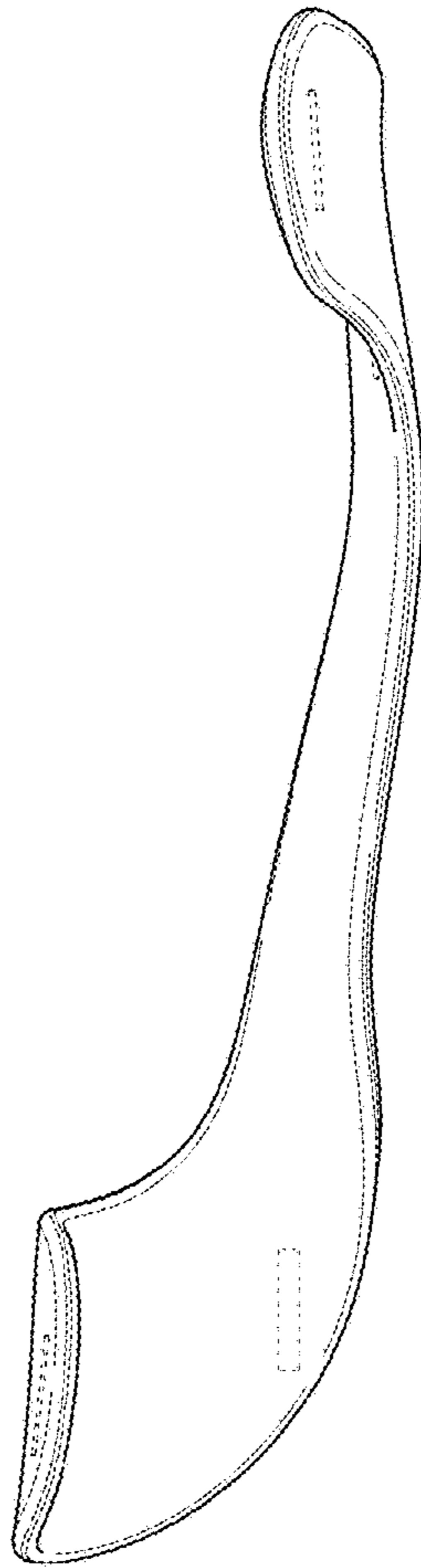


FIG. 22

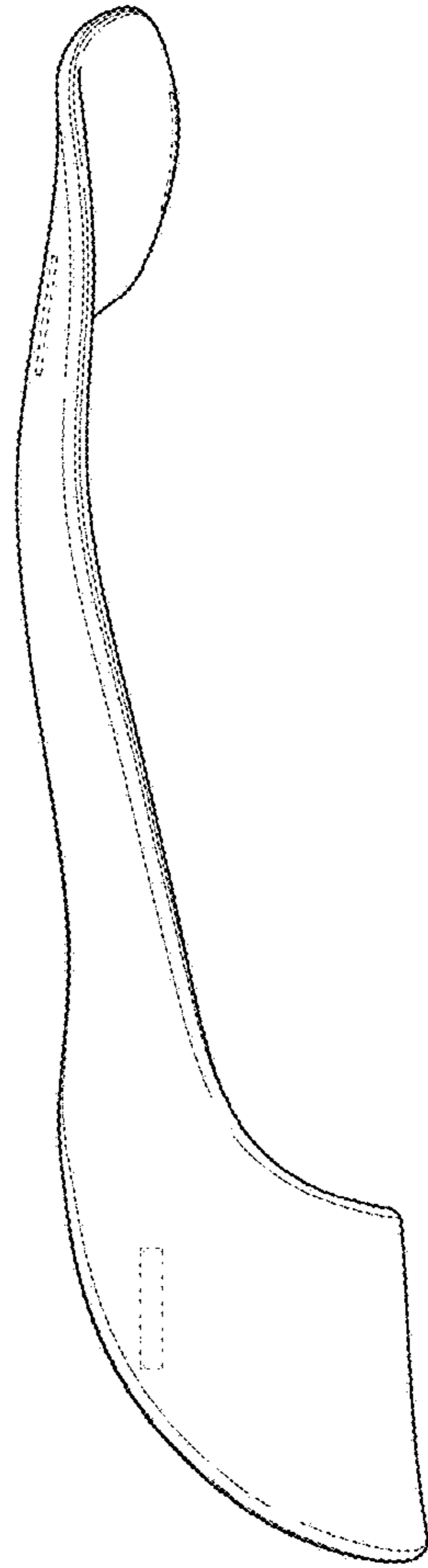


FIG. 23

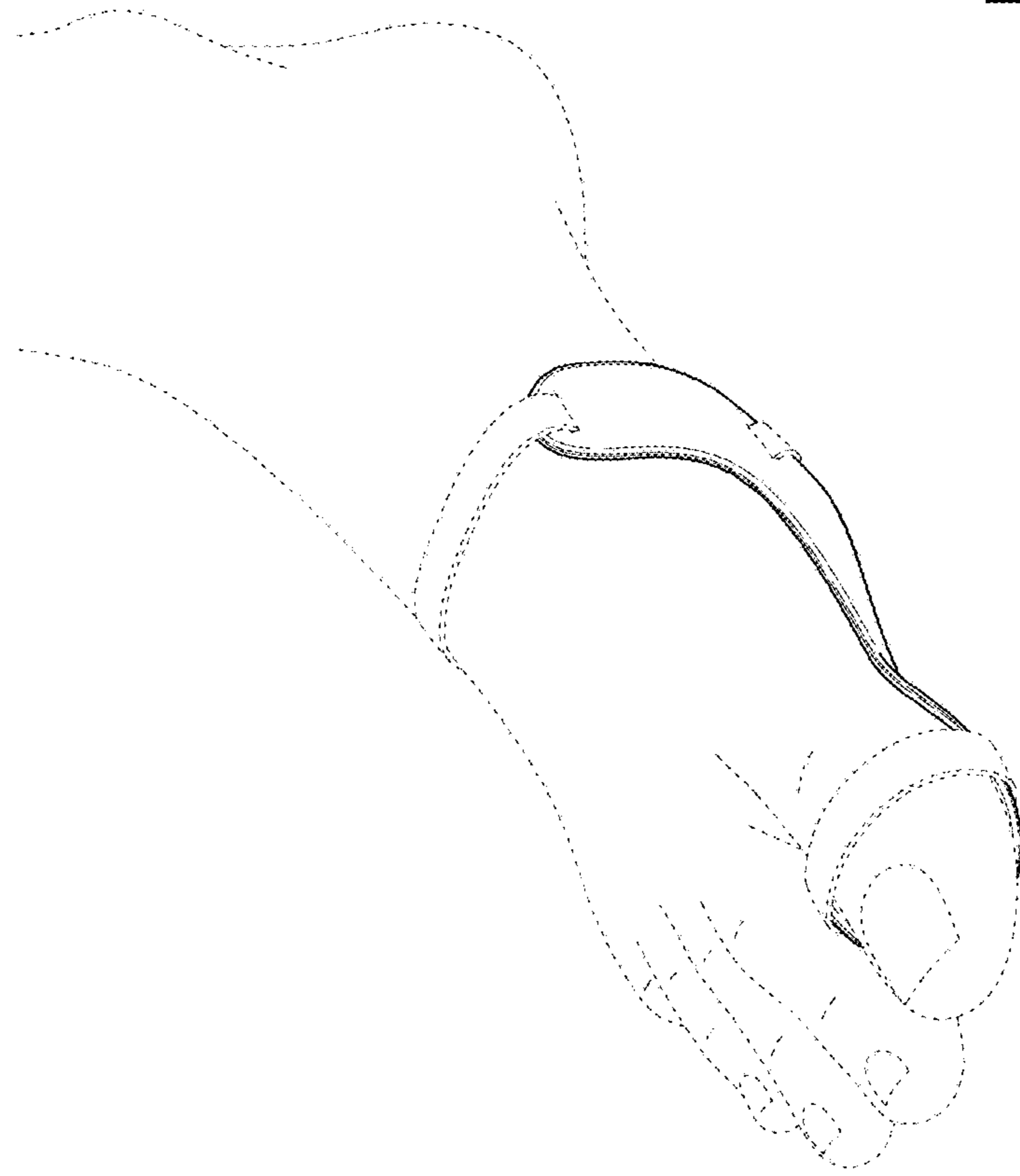


FIG. 24