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

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(45) **Date of Patent:** **** Mar. 24, 2020**

(54) **MATERIAL HAVING EDGING**

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

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(51) **LOC (12) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/154**; D13/199

(58) **Field of Classification Search**
USPC D13/123, 154, 182, 184, 199; D25/48.2, D25/119, 199; D7/388; D23/386; D12/221, 222, 345

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D114,239 S * 4/1939 Ryan D13/154
4,058,537 A 11/1977 Mueller
(Continued)

FOREIGN PATENT DOCUMENTS

EP 2814057 A2 12/2014
JP 2005327923 A 11/2005
(Continued)

OTHER PUBLICATIONS

Final Office Action for U.S. Appl. No. 15/207,444, filed Jul. 11, 2016 which names two of the same inventors, and the same assignee, but is not related through a priority claim, dated Apr. 19, 2019, 13 pages.

(Continued)

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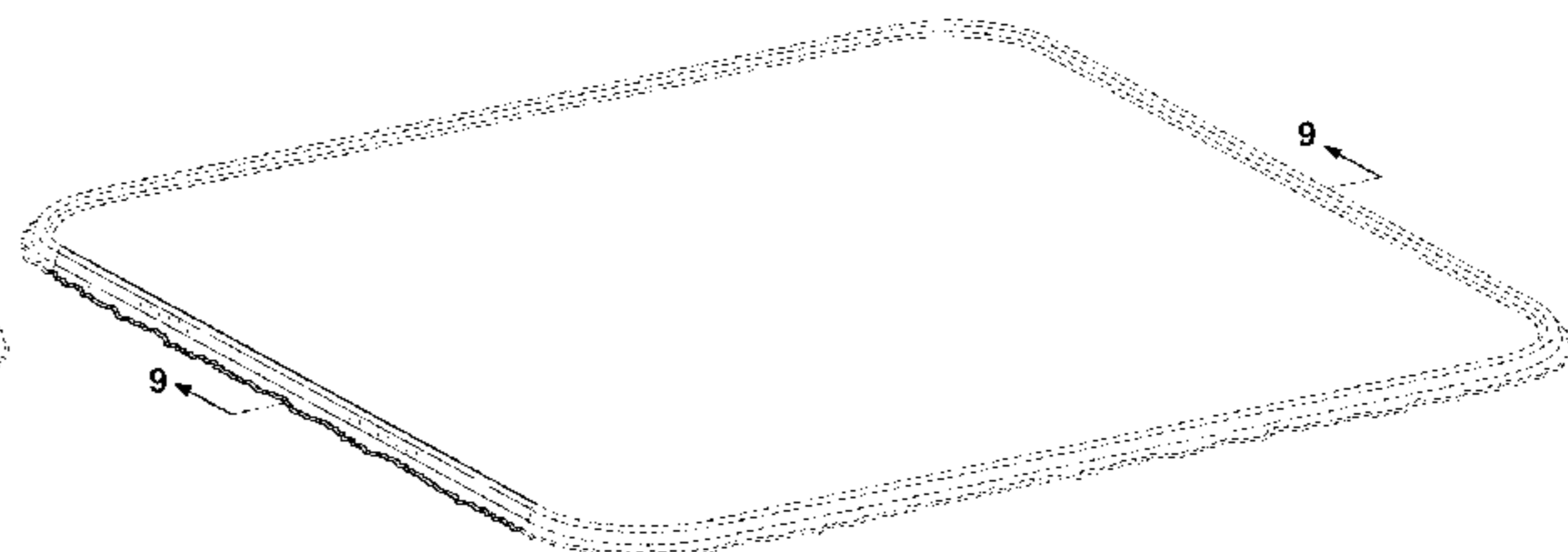
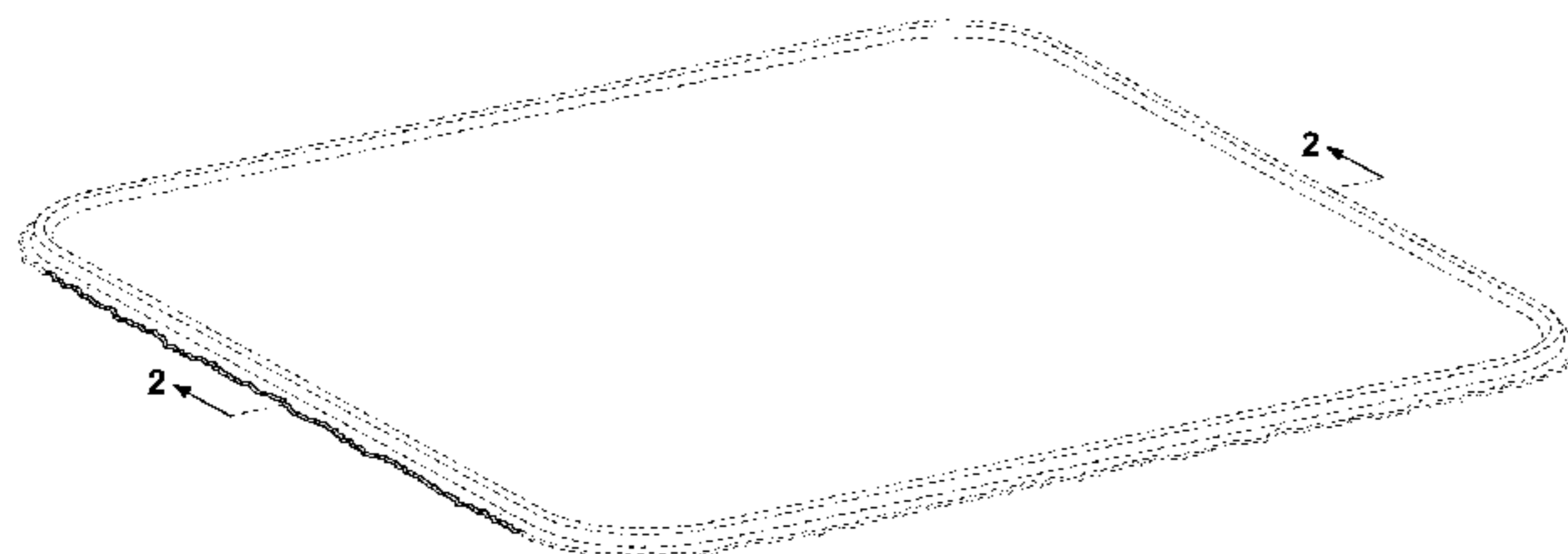
(57) **CLAIM**

The ornamental design for a material having edging, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a first embodiment of a material having edging, showing our new design; FIG. 2 is a cross-sectional perspective view of the material having the edging, taken along lines 2-2 in FIG. 1; FIG. 3 is a top plan view of the material having the edging shown in FIG. 1; FIG. 4 is a front elevation view of the material having the edging shown in FIG. 1; FIG. 5 is a back elevation view of the material having the edging shown in FIG. 1; FIG. 6 is a right side plan view of the material having the edging shown in FIG. 1; FIG. 7 is a left side plan view of the material having the edging shown in FIG. 1; FIG. 8 is a perspective view of a second embodiment of the material having edging, showing our new design; FIG. 9 is a cross-sectional perspective view of the material having the edging, taken along lines 9-9 in FIG. 8; FIG. 10 is a top plan view of the material having the edging shown in FIG. 8; FIG. 11 is a front elevation view of the material having the edging shown in FIG. 8; FIG. 12 is a back elevation view of the material having the edging shown in FIG. 8; FIG. 13 is a right side plan view of the material having the edging shown in FIG. 8; and, FIG. 14 is a left side plan view of the material having the edging shown in FIG. 8. The broken lines in FIGS. 1-14 illustrate portions of the material having edging that form no part of the claimed design.

1 Claim, 6 Drawing Sheets



(58) **Field of Classification Search**

CPC . H01B 3/00; H01B 3/008; H01B 3/28; H01B 3/30; H01B 3/44; H01B 3/46; H01R 13/6598; H01R 13/6599; H01H 2211/00; H01H 2211/024; F28F 3/00; F28F 3/005; H05K 9/00; H05K 9/0015; H05K 9/0016; H05K 9/0022; H05K 9/0024; H05K 9/003

See application file for complete search history.

2004/0262372 A1 12/2004 Houle et al.
 2004/0262743 A1 12/2004 Houle et al.
 2007/0193672 A1 8/2007 Yamamoto
 2014/0367847 A1 12/2014 Strader et al.
 2016/0160104 A1 6/2016 Bruzda et al.
 2016/0185074 A1 6/2016 Kagawa
 2016/0315030 A1 10/2016 Strader et al.
 2016/0326419 A1 11/2016 Balandin
 2016/0355249 A1* 12/2016 Jousselein B64C 1/1492
 2016/0362169 A1* 12/2016 Busscher B64C 1/1484

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,199,490 A 4/1980 Kamiya et al.
 4,678,115 A 7/1987 Weisert
 4,863,551 A 9/1989 Ogura
 D344,489 S * 2/1994 Webb D12/345
 D348,387 S * 7/1994 Sullivan D25/60
 5,700,340 A 12/1997 Johnson et al.
 5,943,557 A 8/1999 Moden
 6,391,686 B1 5/2002 Shiozawa
 6,987,671 B2 1/2006 Houle
 7,004,244 B2 2/2006 Rauch
 7,229,683 B2 6/2007 Fischer et al.
 7,821,126 B2 10/2010 Houle et al.
 7,906,845 B1 3/2011 Galloway et al.
 D644,757 S * 9/2011 Vappula D25/199
 8,445,102 B2 5/2013 Strader et al.
 8,545,987 B2 10/2013 Strader et al.
 8,916,419 B2 12/2014 Chen et al.
 8,920,919 B2 12/2014 Arora et al.
 9,016,629 B1 * 4/2015 Svartstrom B64C 1/1492
 244/129.3
 D731,078 S * 6/2015 Frenette D25/119
 D734,732 S * 7/2015 Nakabayashi D13/182
 9,257,364 B2 2/2016 Ahuja et al.
 9,316,447 B2 4/2016 Fleskens et al.
 9,330,998 B2 5/2016 Strader et al.
 9,418,912 B2 8/2016 Nardi et al.
 9,472,485 B2 10/2016 Saeidi et al.
 D807,531 S * 1/2018 Manning D25/119
 D862,404 S * 10/2019 Murata D13/182
 2003/0037866 A1 2/2003 Aoki et al.
 2003/0234322 A1 * 12/2003 Bladt B64C 1/1484
 244/129.3
 2004/0180474 A1 9/2004 Oman
 2004/0188814 A1 9/2004 Houle et al.
 2004/0261980 A1 12/2004 Dani et al.

FOREIGN PATENT DOCUMENTS

JP 2012084688 A 4/2012
 KR 10-0827725 B1 5/2008
 WO WO-97/41599 A1 11/1997
 WO WO-2016182996 A1 11/2016

OTHER PUBLICATIONS

Non-Final Office Action dated Sep. 24, 2018 issued by the United States Patent and Trademark Office for U.S. Appl. No. 15/207,444 which has an inventor and assignee in common with the instant application but is not related through a priority claim, 12 pages.
 Korean Office Action dated Oct. 22, 2018 issued in Application No. 10-2017-0085269 which has an inventor and assignee in common with the instant application but is not related through a priority claim, 15 pages. An English language translation of the Korean Office Action is not available at this time.
 European Search Report for EP17178138.8 filed Jun. 27, 2017 which names 2 of the same inventors but is not related through a priority claim, dated Dec. 13, 2017, 6 pages.
 Hirschi, David; Dow Corning Case Study; Understanding Differences Between Thermal Interface Materials: Improve your ability to specify the optimum TIM; Copyright 2008, 4 pages.
 Types of Fabricated Films and Pad Thermal Interface Materials—Dow Corning; Thermal Interface—Wet Dispensed; <http://www.dowcorning.com/content/etronics/etronicswet/newtim_tutorial5.asp>; accessed Jul. 11, 2016.
 Basics of Processing for Fabricated Films and Pads—Dow Corning; Thermal Interface—Wet Dispensed; http://www.dowcorning.com/content/etronics/etronicswet/newtim_tutorial113.asp> accessed Jul. 11, 2016; 1 page.
 Packaging and Storage Considerations—Dow Corning; <http://www.dowcorning.com/content/etronics/etronicswet/newtim_tutorial14.asp> accessed Jul. 11, 2016.

* cited by examiner

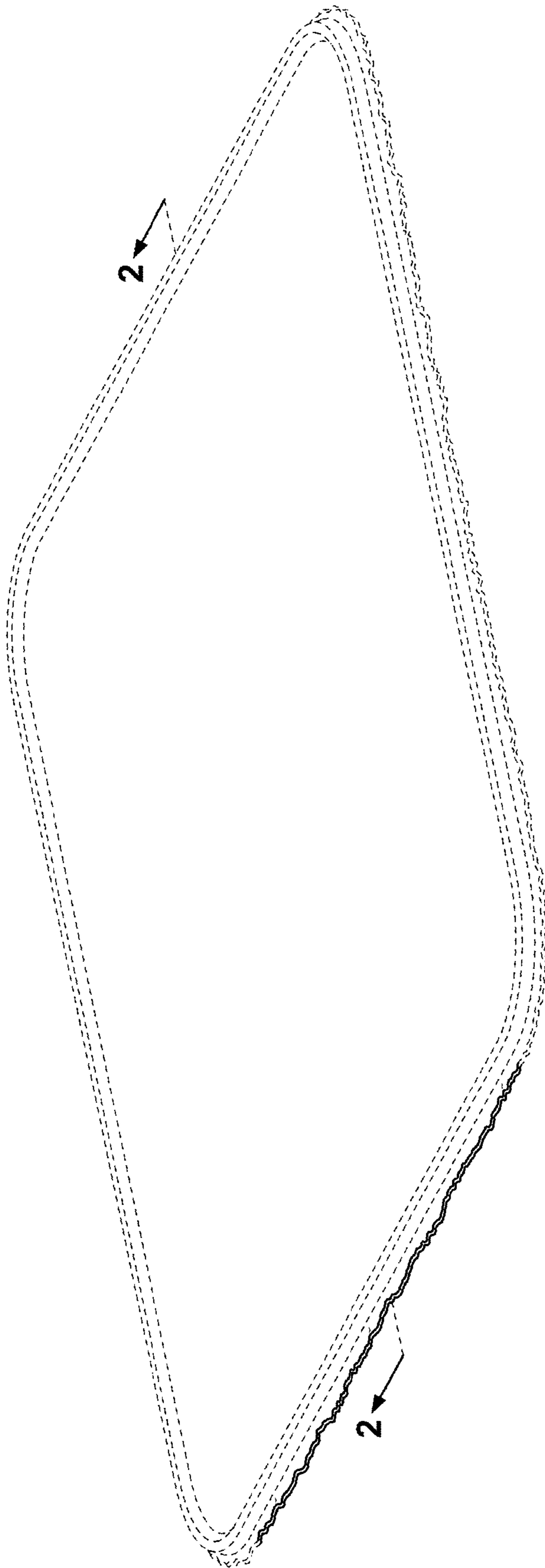


FIG. 1

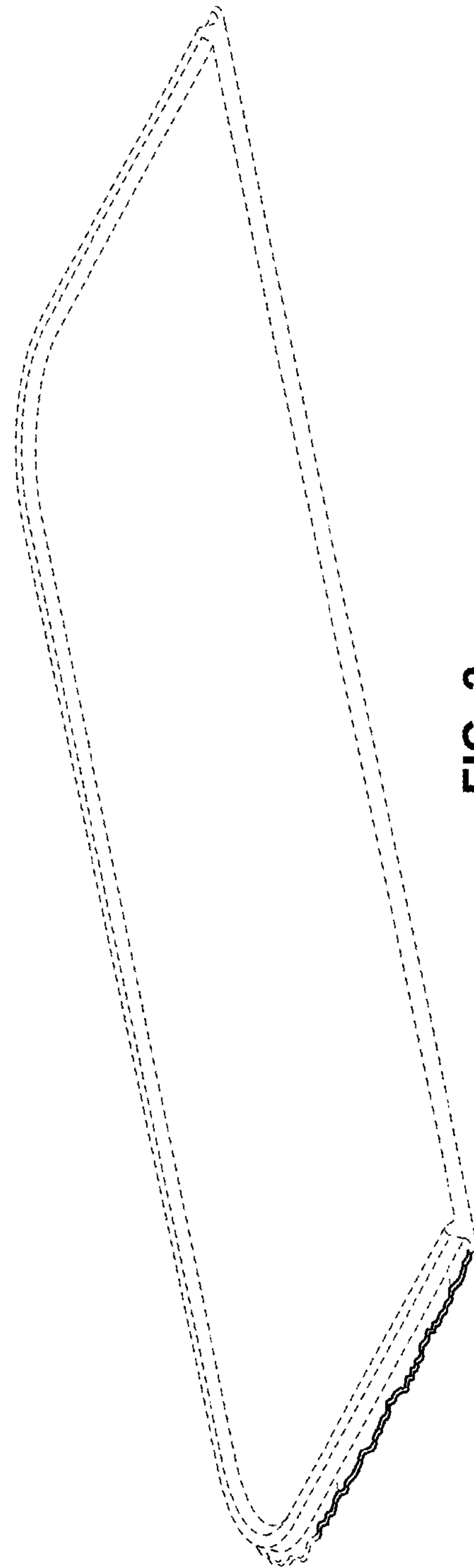


FIG. 2

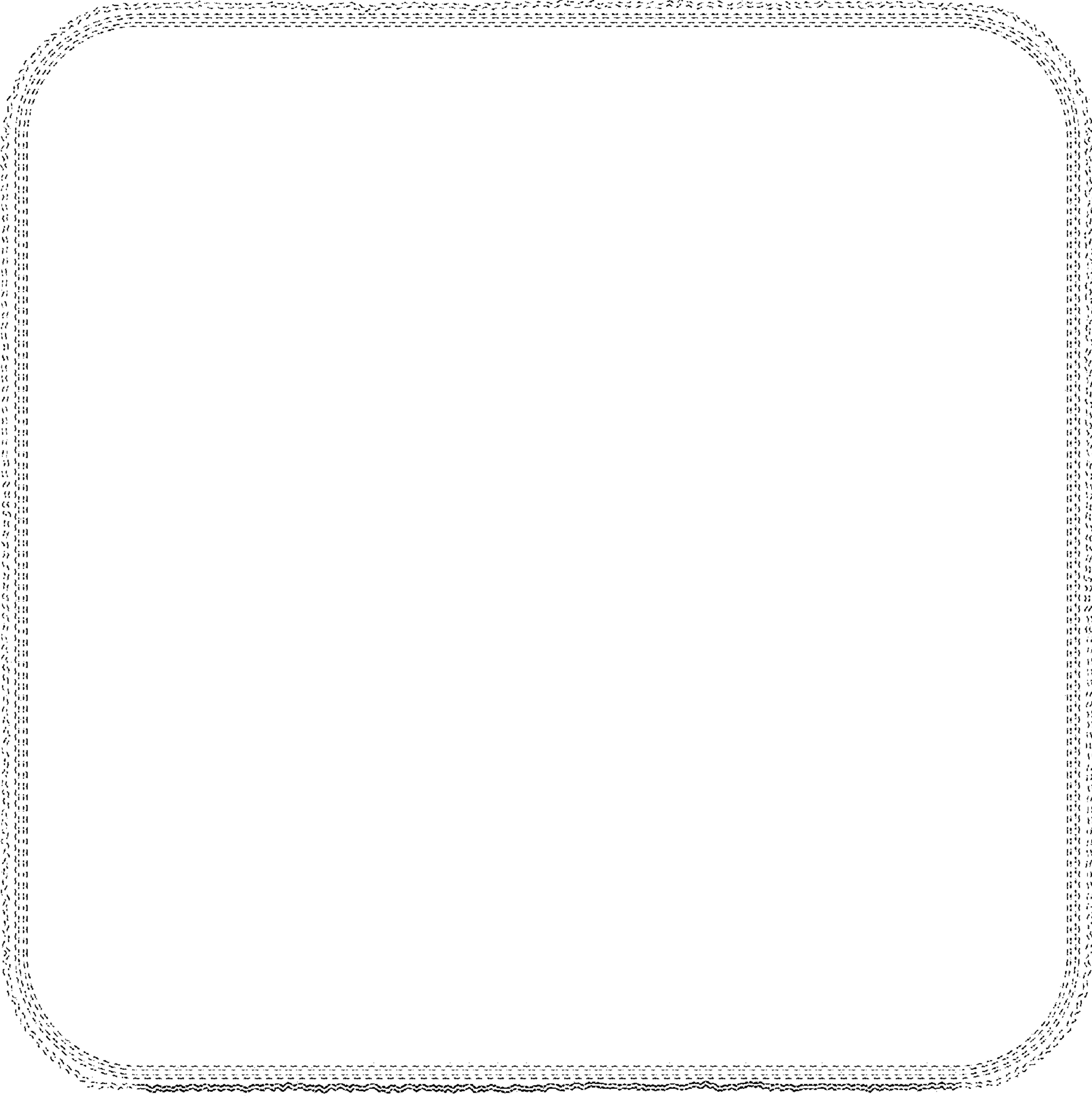


FIG. 3

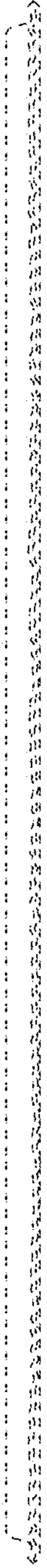


FIG. 4

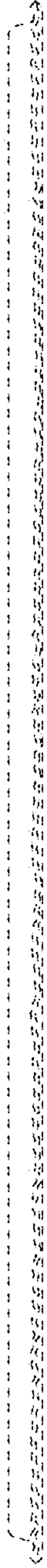


FIG. 5

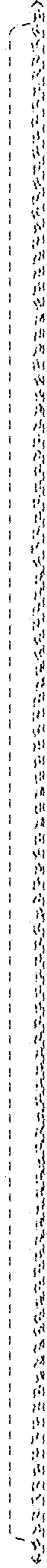


FIG. 6

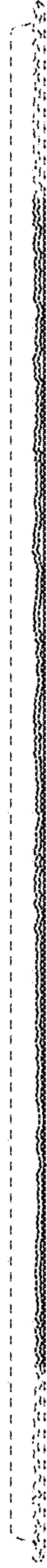


FIG. 7

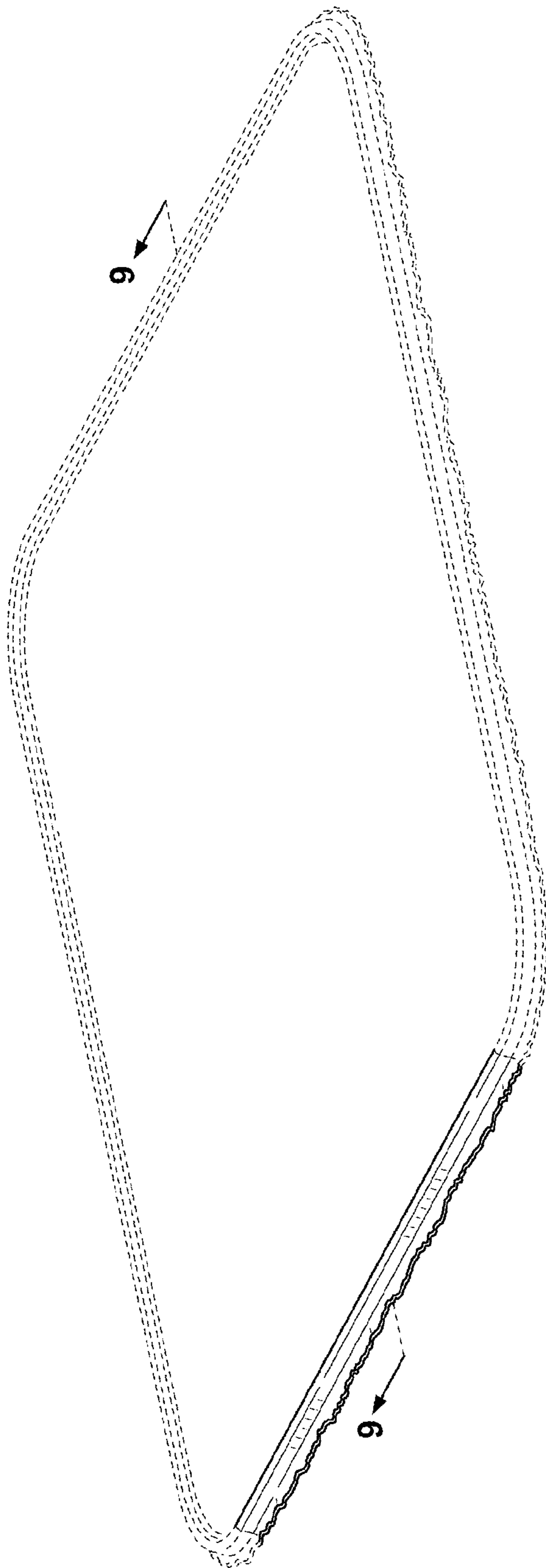


FIG. 8

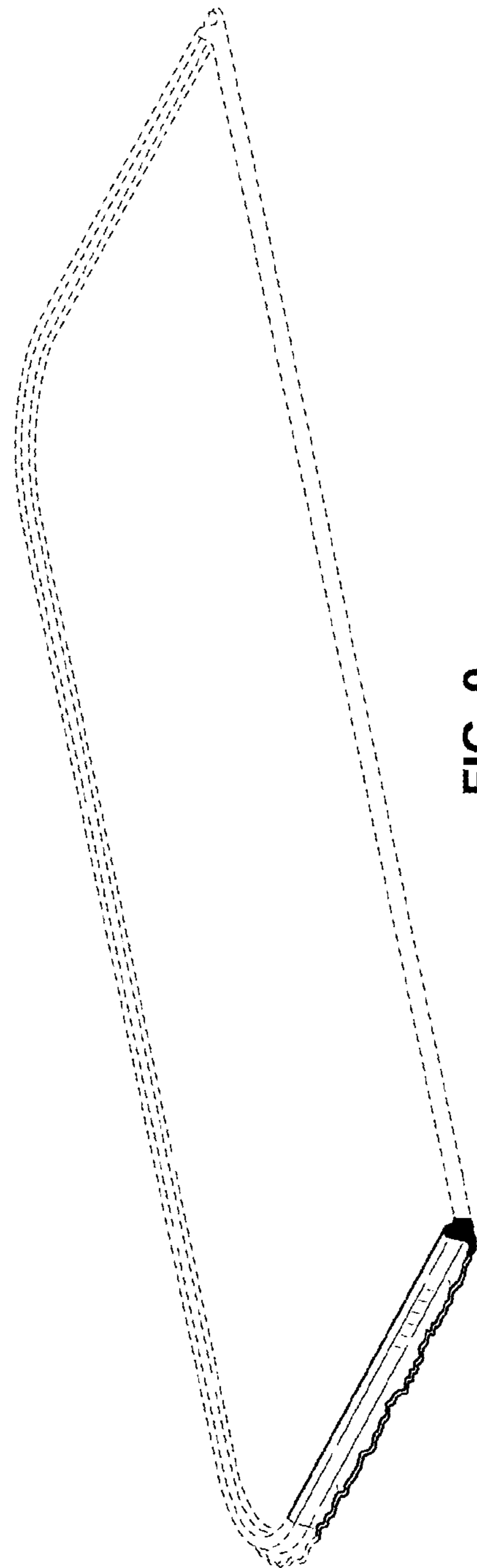


FIG. 9

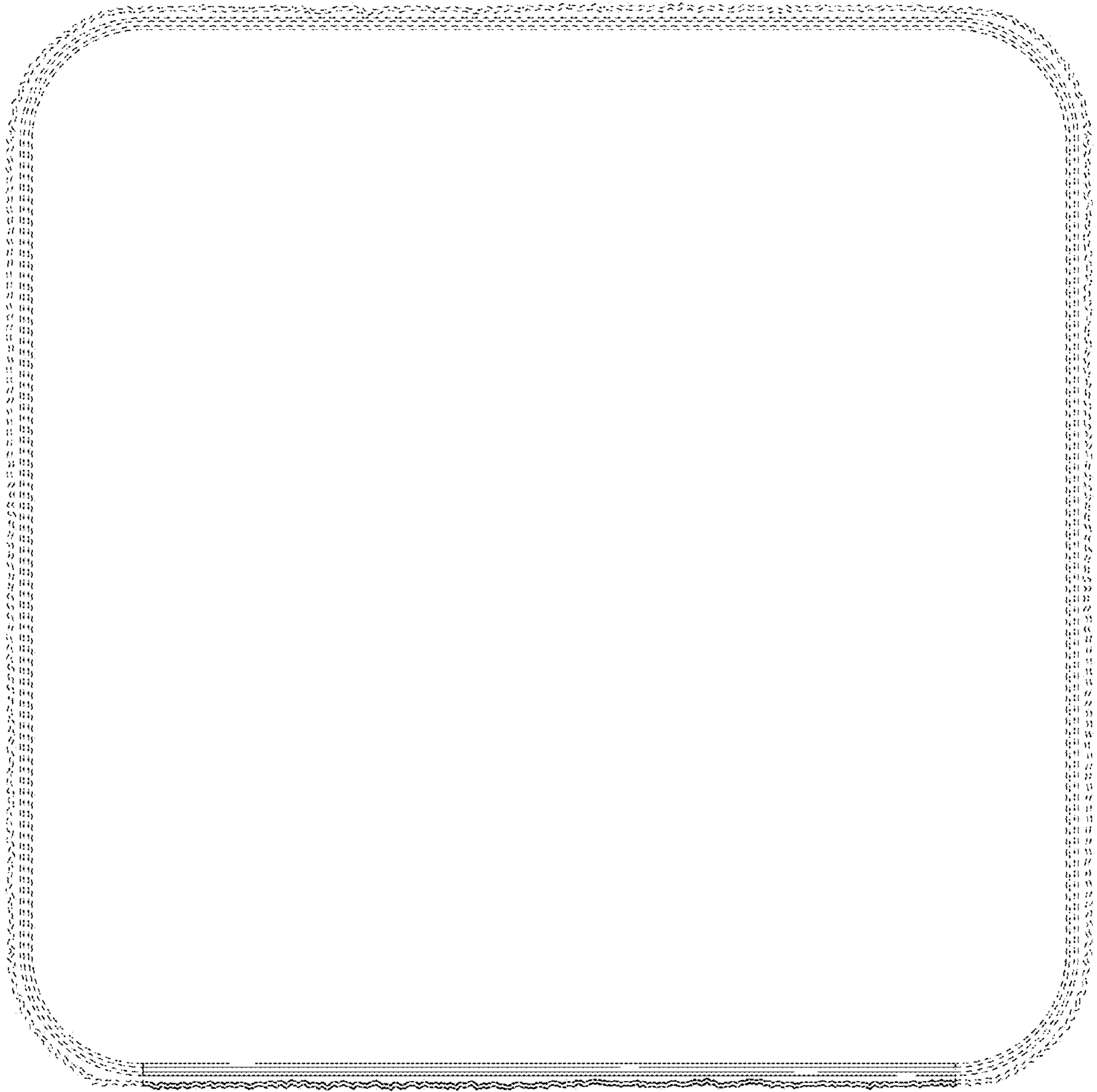


FIG. 10

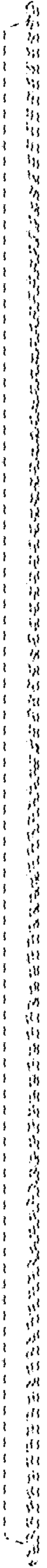


FIG. 11

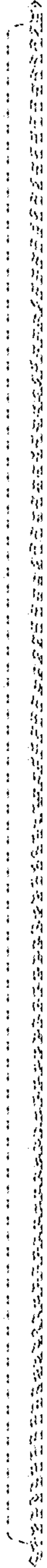


FIG. 12

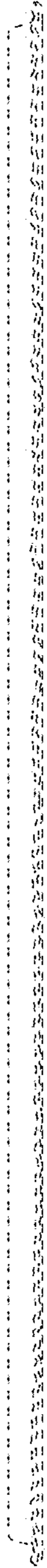


FIG. 13



FIG. 14