

US00D790060S

(12) **United States Design Patent** (10) **Patent No.:** **US D790,060 S**
Nering (45) **Date of Patent:** **** Jun. 20, 2017**

(54) **CURVED TISSUE FASTENING DEVICE**

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(73) Assignee: **Ethicon, Inc.**, Somerville, NJ (US)

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

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(22) Filed: **Mar. 4, 2016**

Related U.S. Application Data

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(51) **LOC (10) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/145**

(58) **Field of Classification Search**

USPC D24/145; 606/60, 75, 139, 213, 215,
606/219, 220, 221, 232; 227/902
CPC ... A61B 17/24; A61B 17/083; A61B 17/0401;
A61B 17/0643; A61B 17/0682; A61B
17/08

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,582,616 A 12/1996 Bolduc
5,662,683 A 9/1997 Kay
5,810,882 A 9/1998 Bolduc

(Continued)

FOREIGN PATENT DOCUMENTS

EP 0121362 10/1984
EP 0847727 6/1998

(Continued)

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Assistant Examiner — Mark Booker

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LLC

(57) **CLAIM**

The ornamental design for a curved tissue fastening device,
as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a curved tissue fastening device, in accordance with one embodiment of the present invention;

FIG. 2 is a front elevation view of the curved tissue fastening device shown in FIG. 1;

FIG. 3 is a rear elevation view of the curved tissue fastening device shown in FIG. 1;

FIG. 4 is a right side view of the curved tissue fastening device shown in FIG. 1;

FIG. 5 is a left side view of the curved tissue fastening device shown in FIG. 1;

FIG. 6 is a top plan view of the curved tissue fastening device shown in FIG. 1;

FIG. 7 is a bottom view of the curved tissue fastening device shown in FIG. 1;

FIG. 8 is a perspective view of a curved tissue fastening device, in accordance with a second embodiment of the present invention;

FIG. 9 is a front elevation view of the curved tissue fastening device shown in FIG. 8;

FIG. 10 is a rear elevation view of the curved tissue fastening device shown in FIG. 8;

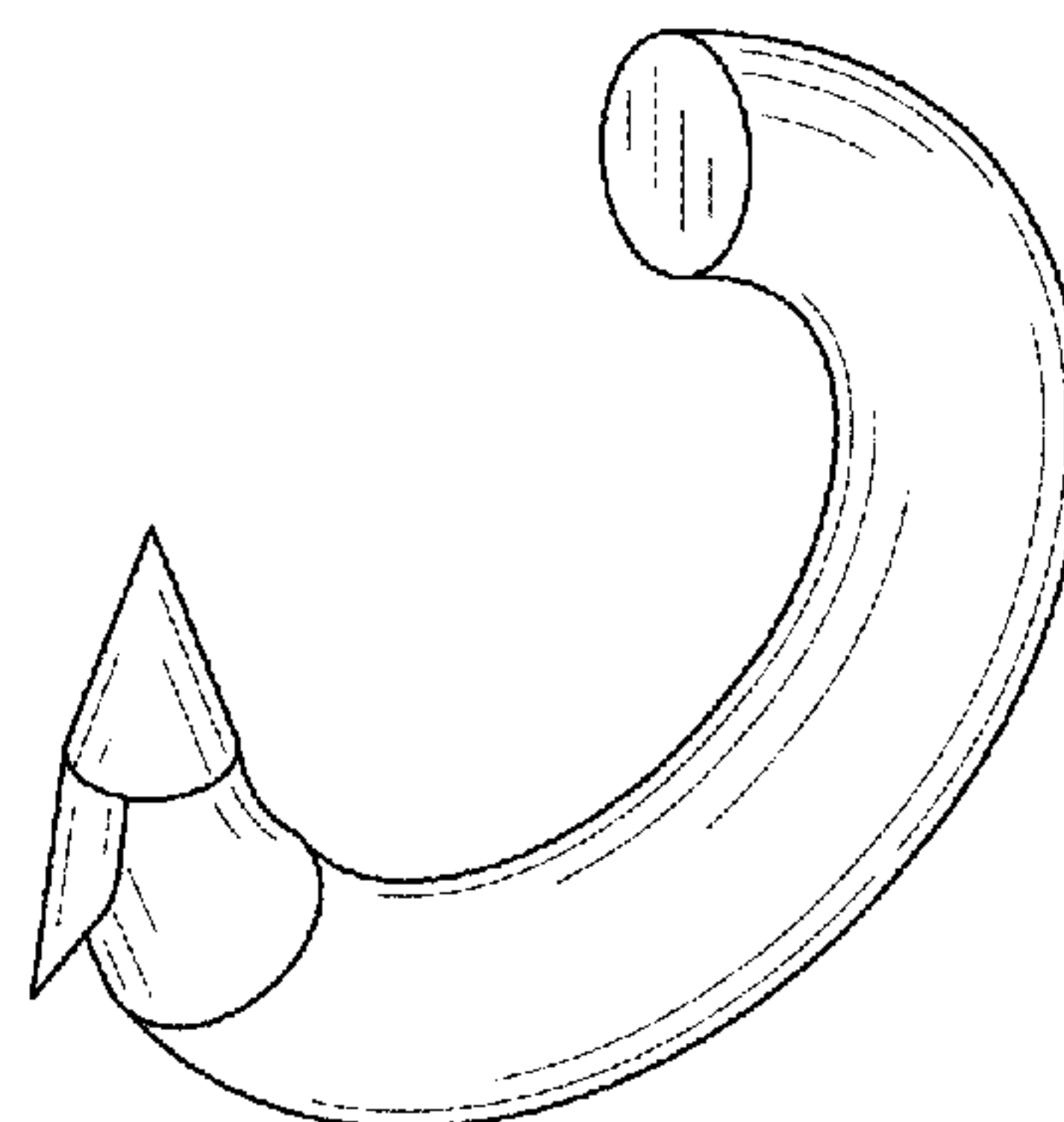
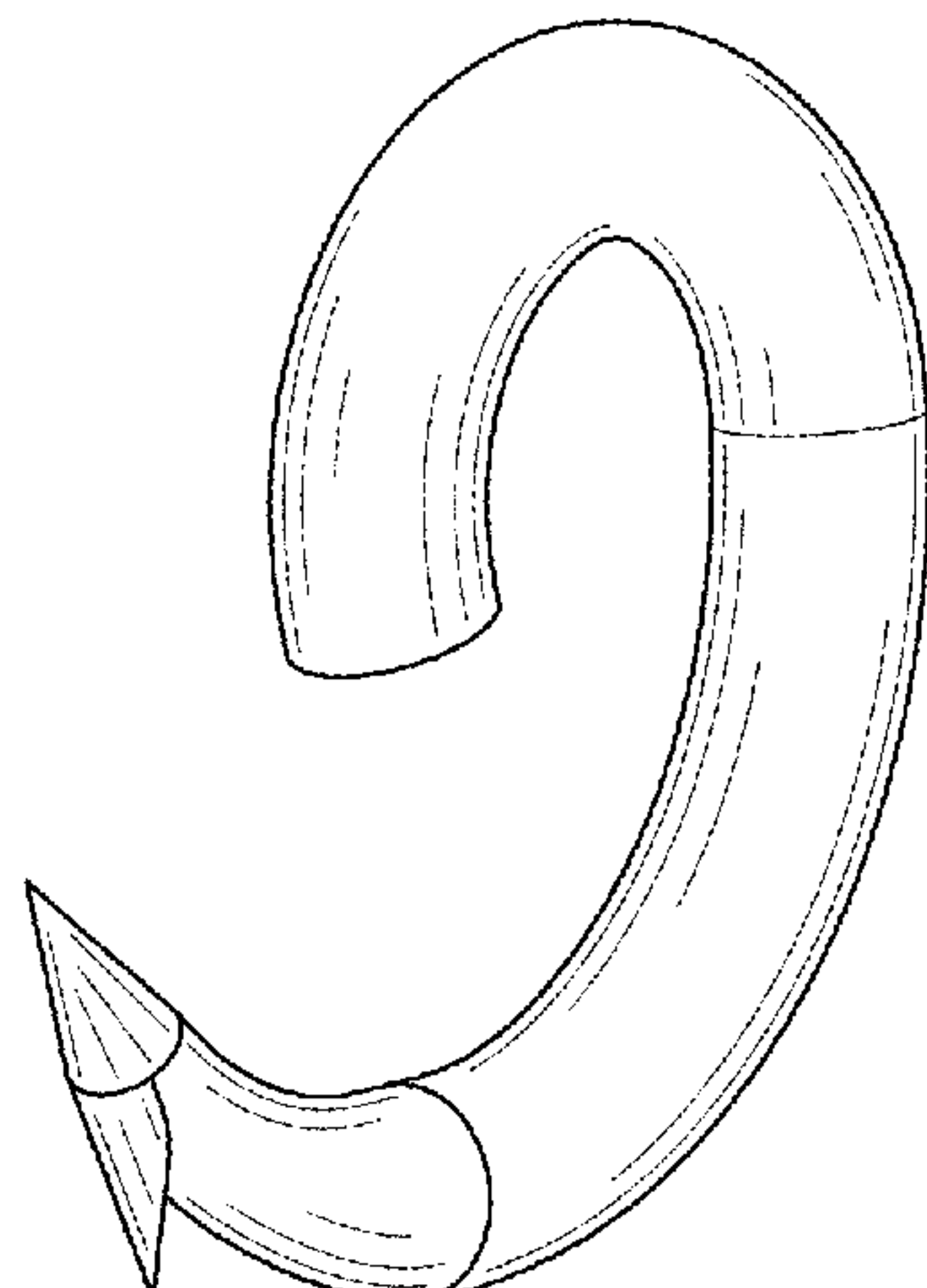
FIG. 11 is a right side view of the curved tissue fastening device shown in FIG. 8;

FIG. 12 is a left side view of the curved tissue fastening device shown in FIG. 8;

FIG. 13 is a top plan view of the curved tissue fastening device shown in FIG. 8; and,

FIG. 14 is a bottom view of the curved tissue fastening device shown in FIG. 8.

1 Claim, 4 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | | |
|--------------|------|---------|-------------------|------------------------|
| 5,830,221 | A | 11/1998 | Stein et al. | |
| 6,296,656 | B1 | 10/2001 | Bolduc | |
| 6,562,051 | B1 | 5/2003 | Bolduc | |
| 8,252,006 | B2 | 8/2012 | Ortiz | |
| 8,388,693 | B2 | 3/2013 | Doucet et al. | |
| 8,579,919 | B2 | 11/2013 | Bolduc | |
| D705,930 | S * | 5/2014 | Cheney | D24/145 |
| D744,646 | S * | 12/2015 | Nering | D24/145 |
| D754,855 | S | 4/2016 | Nering | |
| D768,297 | S * | 10/2016 | Nering | D24/145 |
| D775,336 | S * | 12/2016 | Shelton, IV | D24/145 |
| 2003/0236551 | A1 | 12/2003 | Peterson | |
| 2005/0033318 | A1 | 2/2005 | Miller | |
| 2007/0083235 | A1 | 4/2007 | Jervis | |
| 2008/0065154 | A1 * | 3/2008 | Allard | A61B 17/064 606/219 |
| 2008/0097523 | A1 | 4/2008 | Bolduc | |
| 2008/0234705 | A1 | 9/2008 | Cropper et al. | |
| 2010/0327042 | A1 | 12/2010 | Amid et al. | |
| 2013/0090685 | A1 | 4/2013 | Gonzales et al. | |

FOREIGN PATENT DOCUMENTS

| | | |
|----|---------|---------|
| EP | 2263559 | 12/2010 |
| WO | 0057796 | 10/2000 |

* cited by examiner

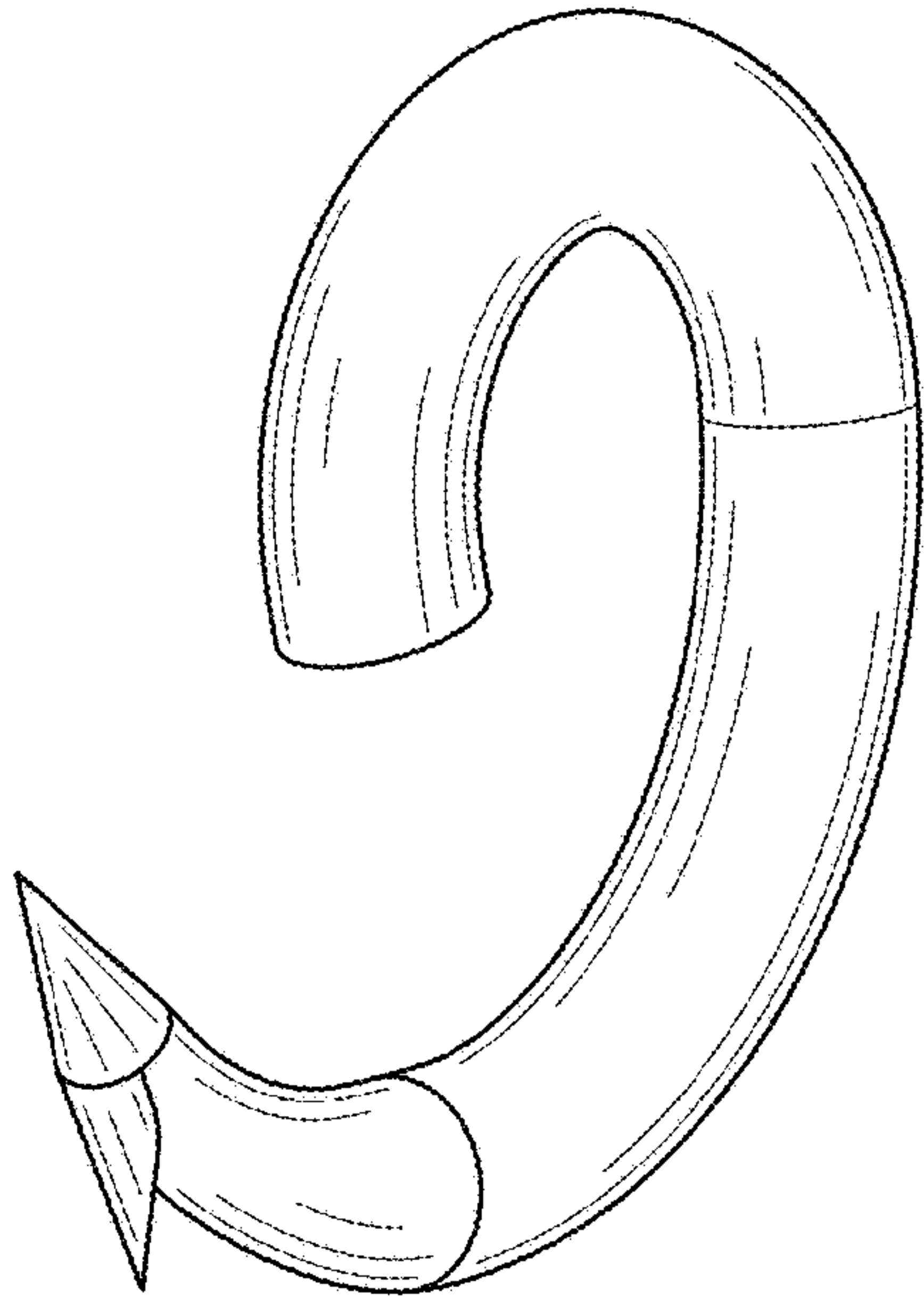


FIG. 1

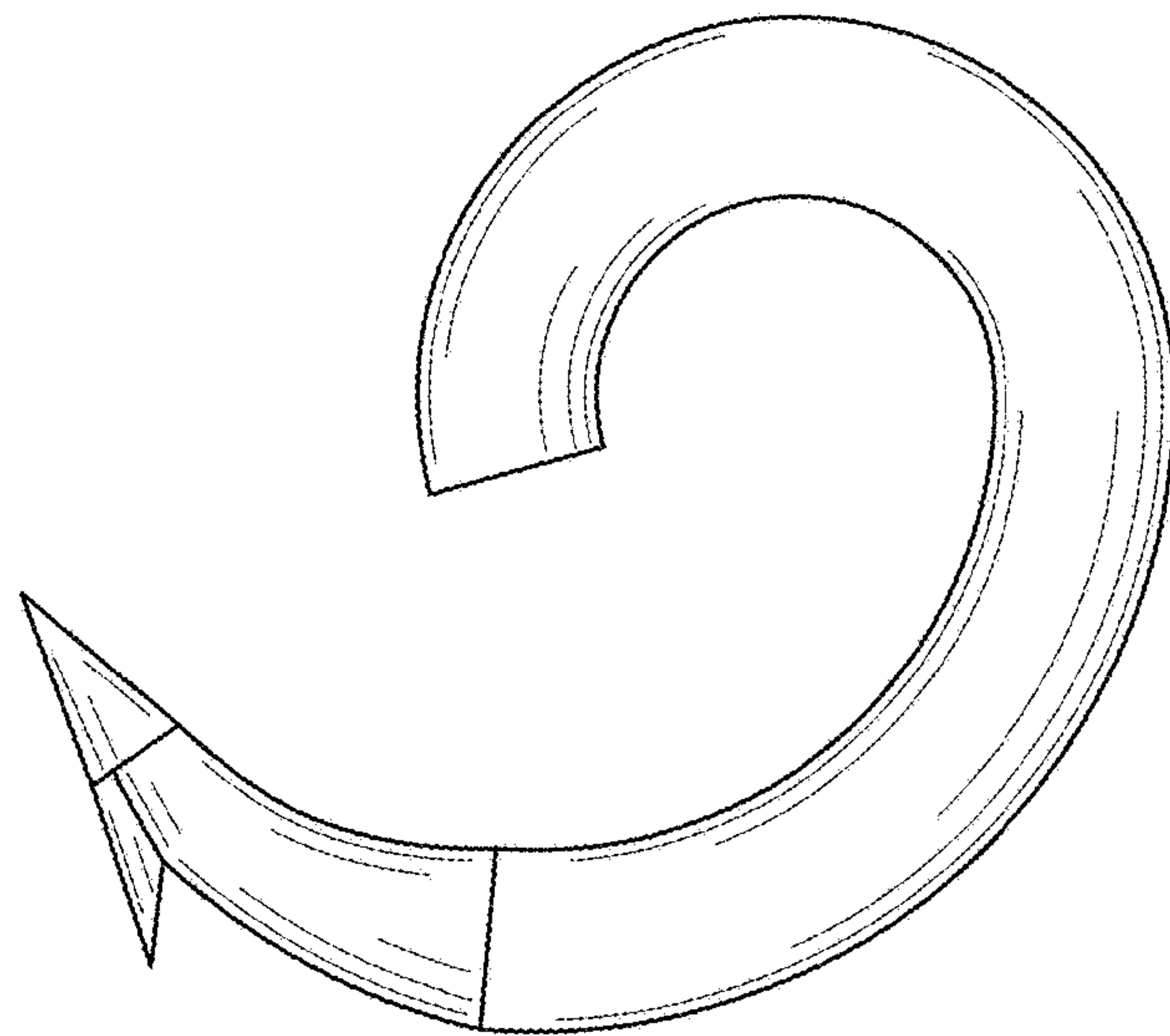


FIG. 2

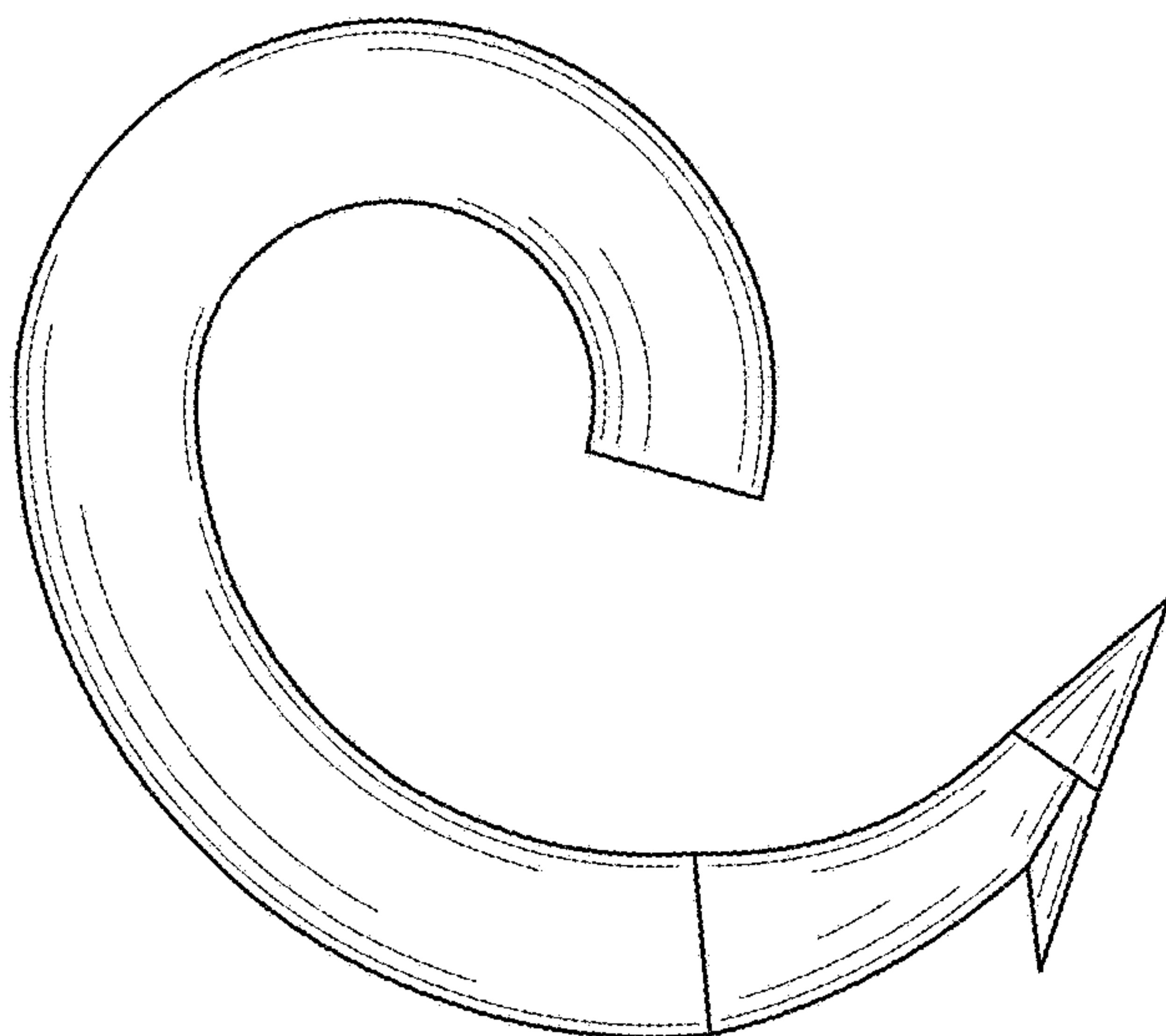


FIG. 3

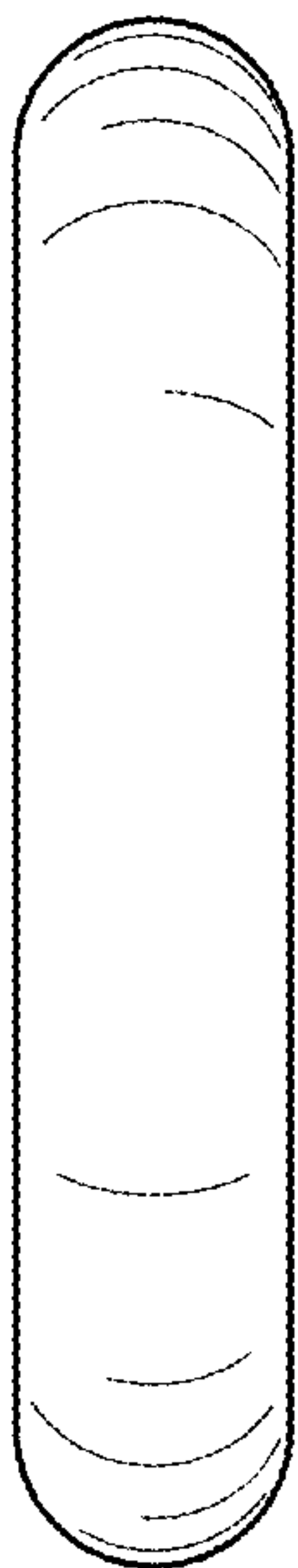


FIG. 4

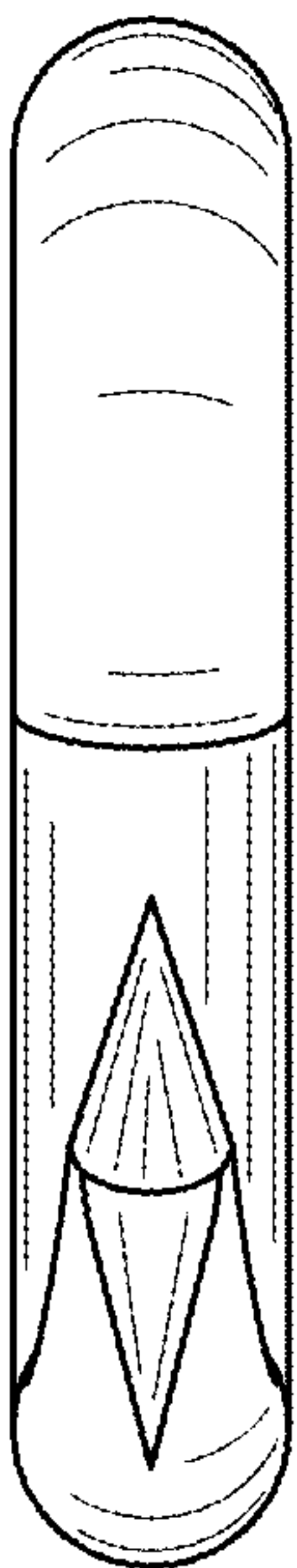


FIG. 5

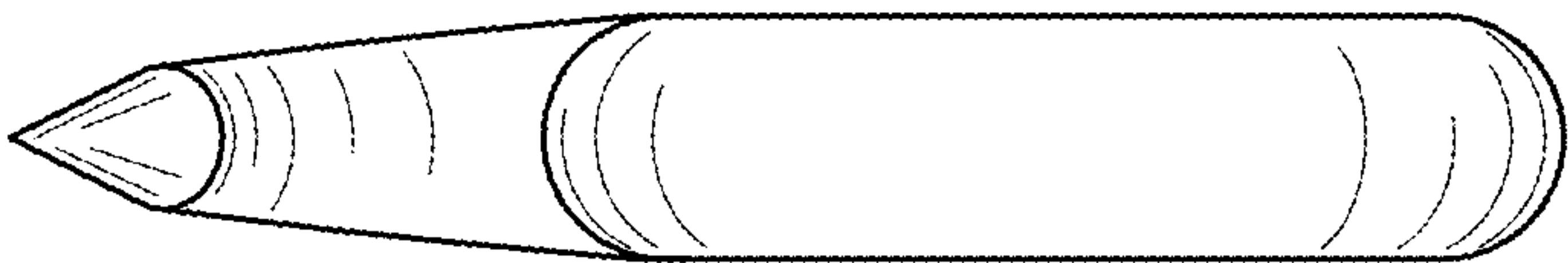


FIG. 6

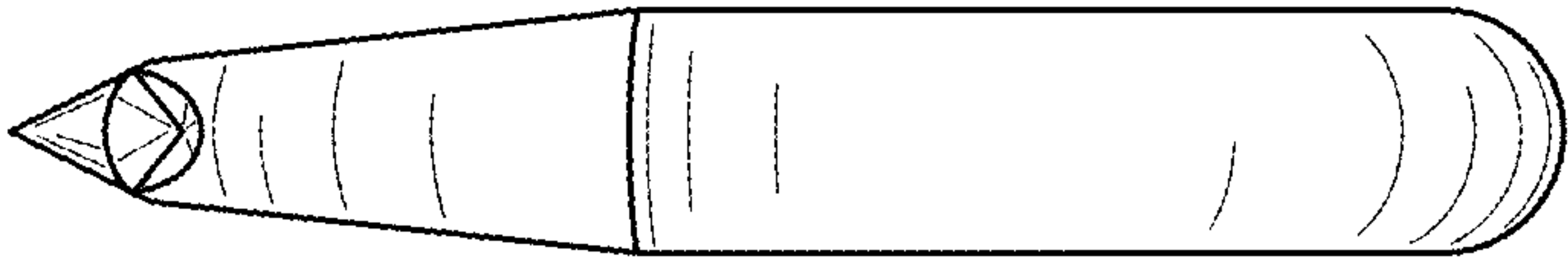


FIG. 7

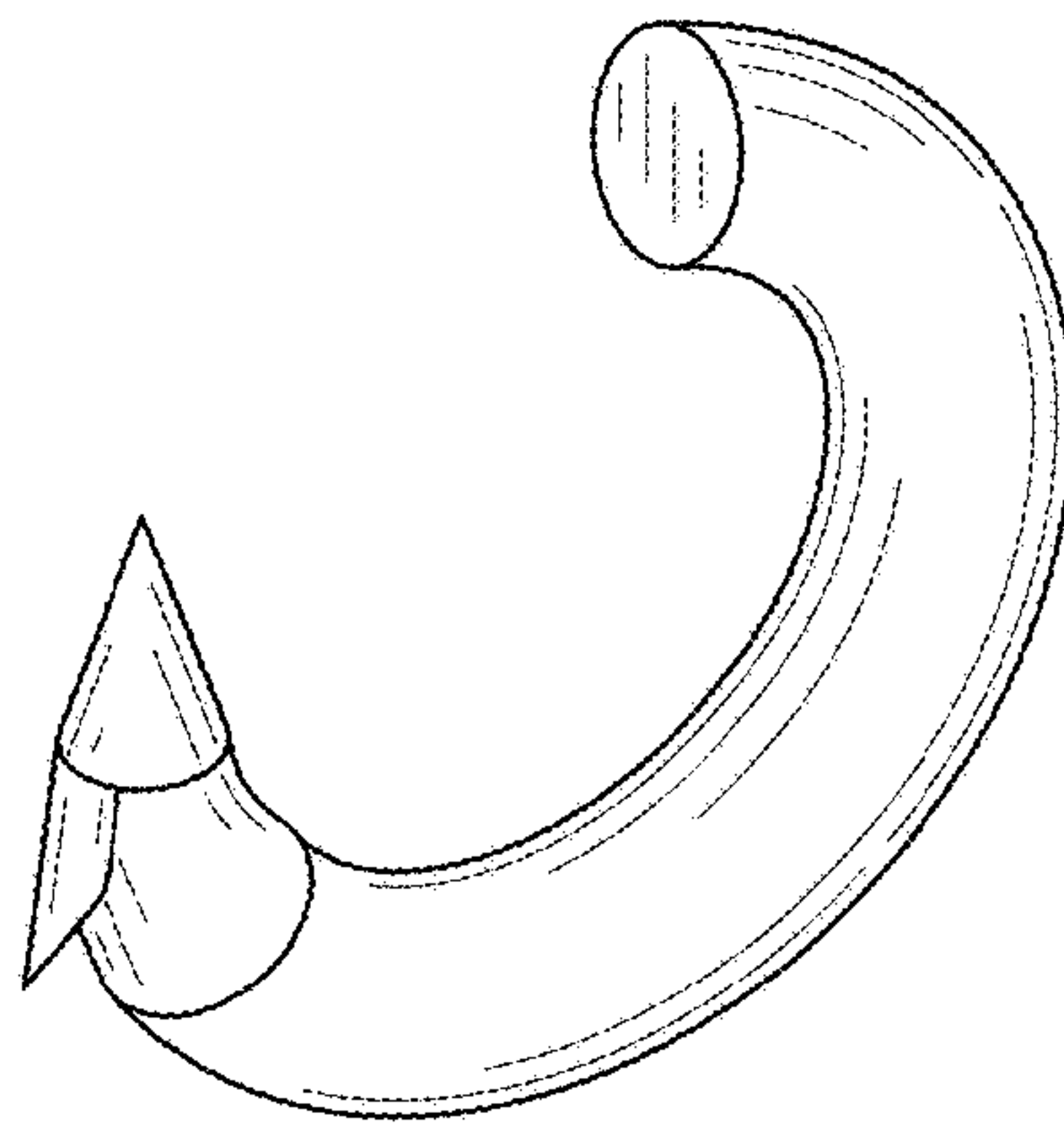


FIG. 8

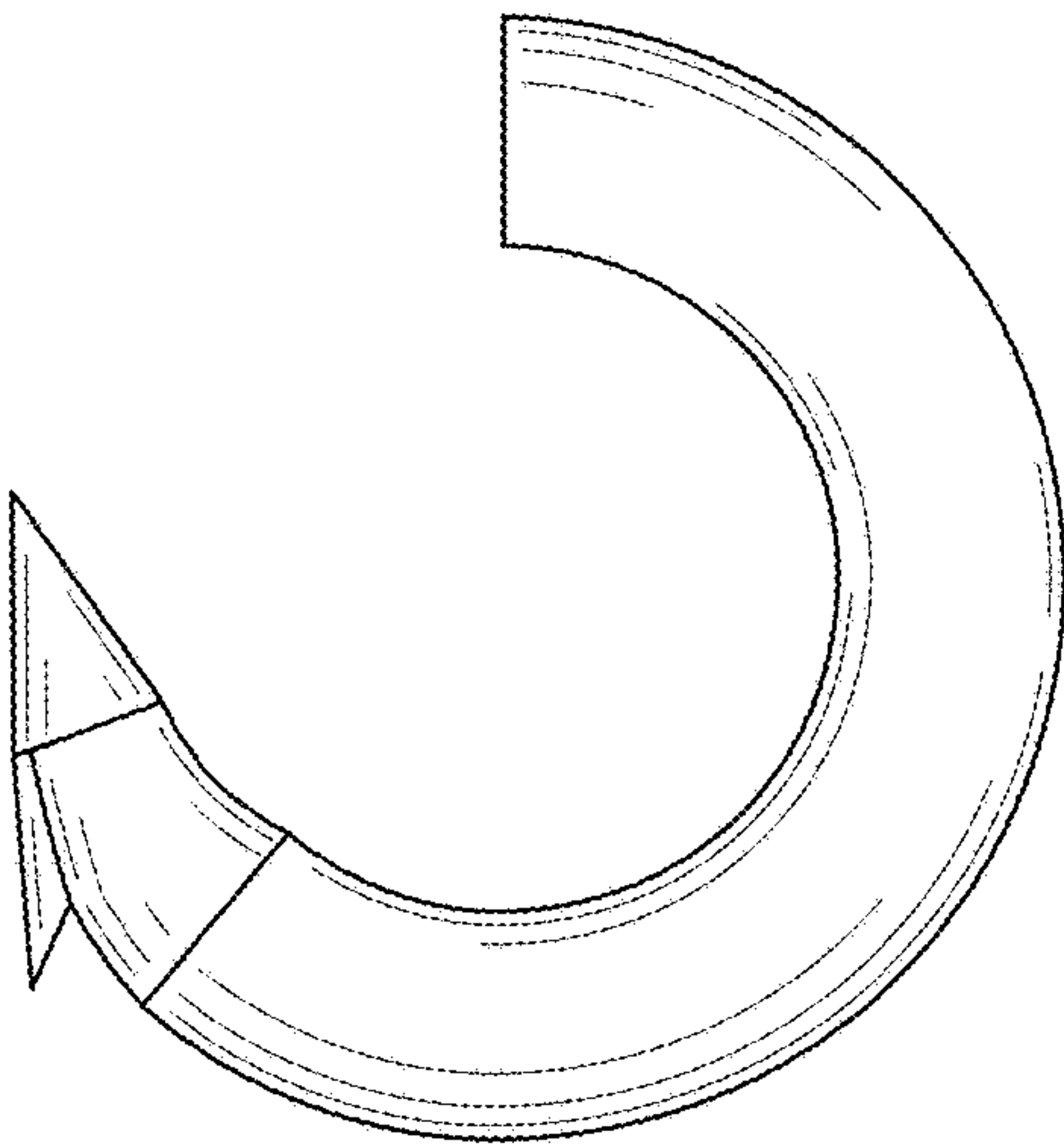


FIG. 9

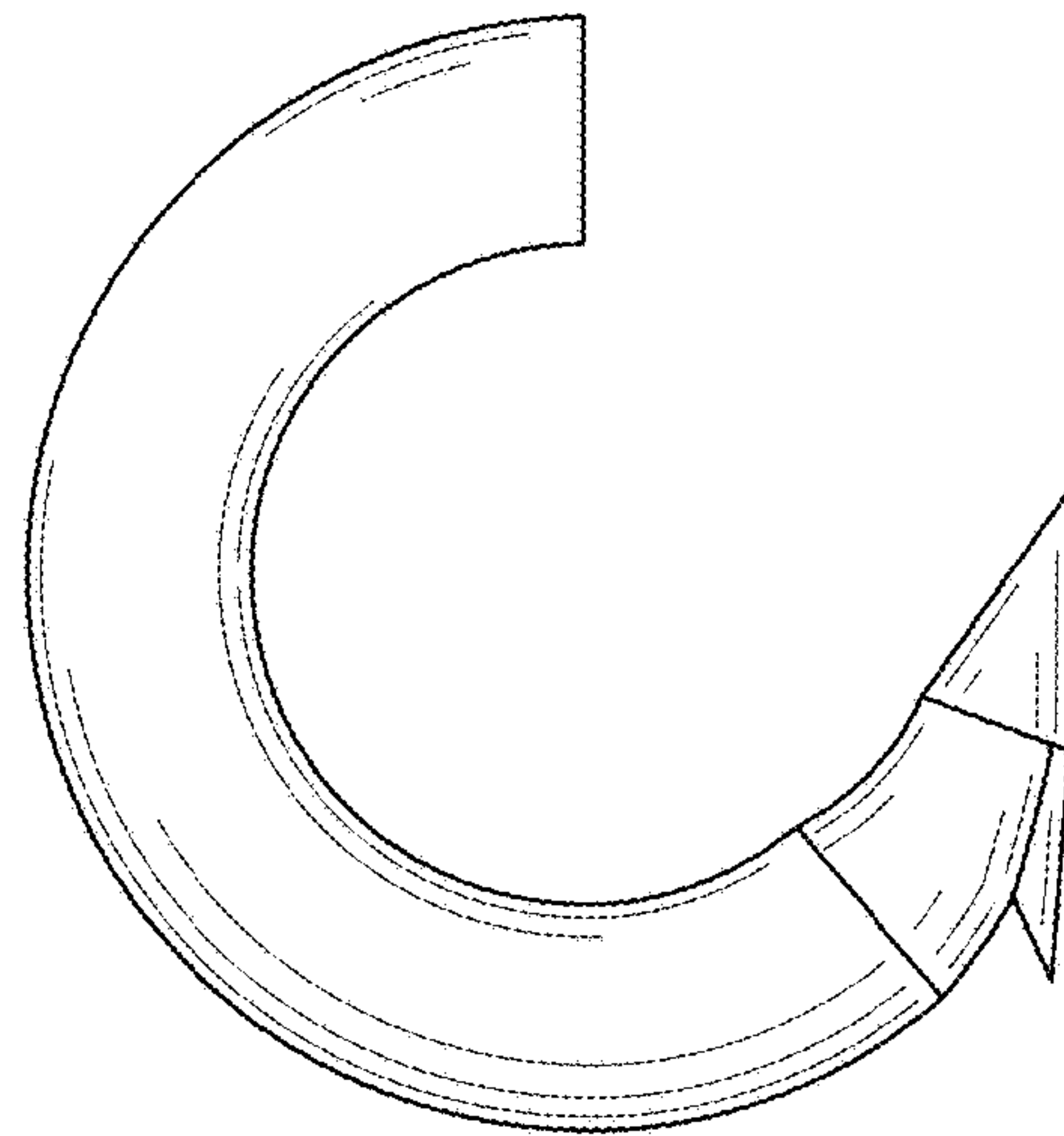


FIG. 10

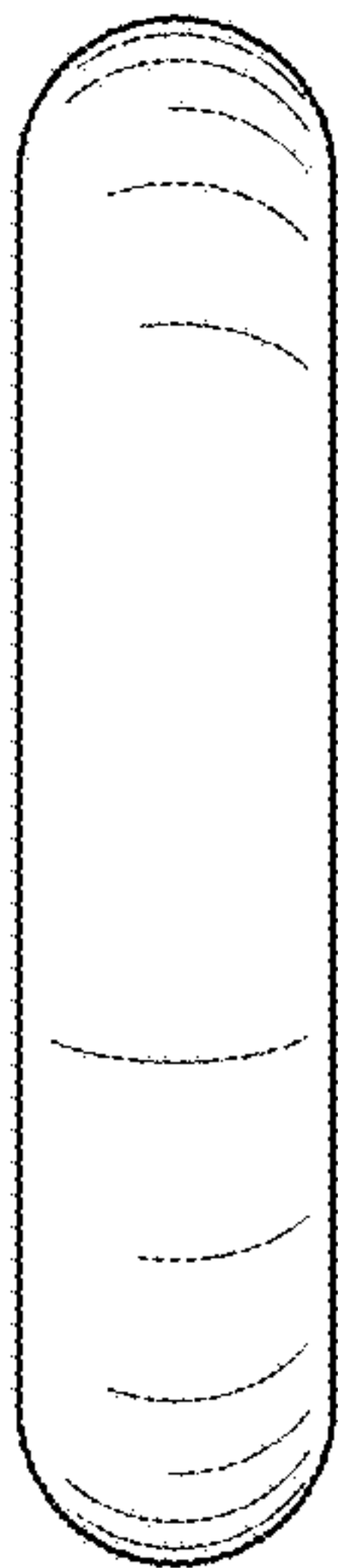


FIG. 11



FIG. 12

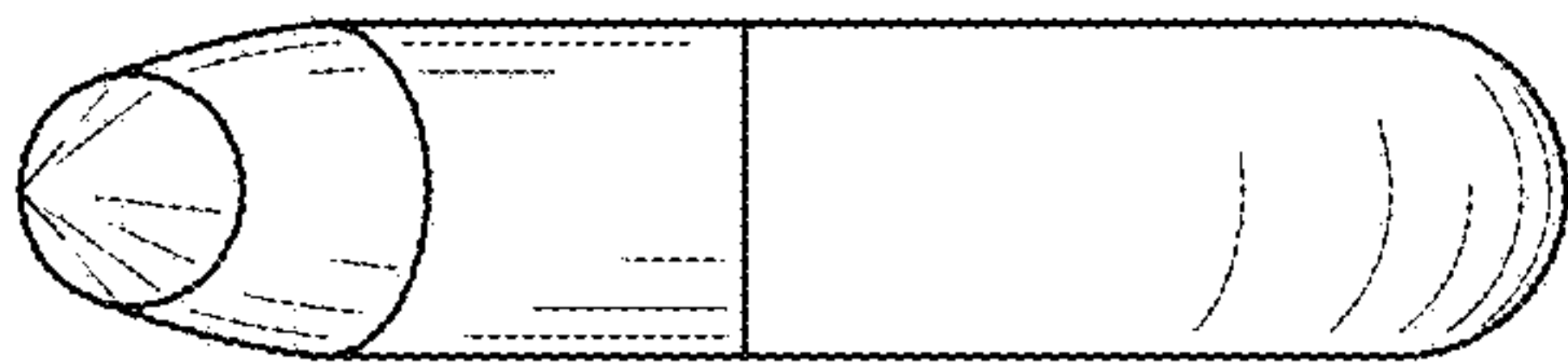


FIG. 13



FIG. 14