

US00D799572S

(12) **United States Design Patent** (10) **Patent No.:** **US D799,572 S**
Kanada et al. (45) **Date of Patent:** **** Oct. 10, 2017**

(54) **THROW-AWAY TIP FOR METAL CUTTING TOOL**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **SUMITOMO ELECTRIC HARDMETAL CORP.**, Itami-shi (JP)

JP D1503568 S 7/2014
JP D1503725 S 7/2014
(Continued)

(72) Inventors: **Yasuyuki Kanada**, Itami (JP);
Kunishige Tanaka, Itami (JP); **Yuji Tomoda**, Itami (JP)

OTHER PUBLICATIONS

(73) Assignee: **SUMITOMO ELECTRIC HARDMETAL CORP.**, Itami-shi (JP)

Notice in Japanese Patent Application No. 2015-005890 dated Nov. 16, 2015.

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

Primary Examiner — Patricia Palasik

(21) Appl. No.: **29/539,777**

(74) *Attorney, Agent, or Firm* — Venable LLP; Michael A. Sartori; Laura G. Remus

(22) Filed: **Sep. 17, 2015**

(30) **Foreign Application Priority Data**

Mar. 19, 2015 (JP) 2015-005890
Mar. 19, 2015 (JP) 2015-005891

(51) **LOC (10) Cl.** **15-09**

(52) **U.S. Cl.**
USPC **D15/139**

(58) **Field of Classification Search**
USPC D15/124–144; D8/16–20, 70, 90, 98;
409/137, 139–140; 407/114, 59
CPC B23C 2200/0494; B23C 2200/086; B23C 2200/128; B23C 2200/362; B23C 5/15; B23C 5/06; B23C 5/207; B23C 2200/367; B23C 2200/0422; B23B 27/007; B23B 27/143; B23B 2200/321; B23B 2200/087; B23B 2200/201
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D305,662 S * 1/1990 Niebauer 407/114
5,044,839 A * 9/1991 Takahashi B23B 27/143
407/114
5,044,840 A * 9/1991 Fouquer B23B 27/143
407/113

(Continued)

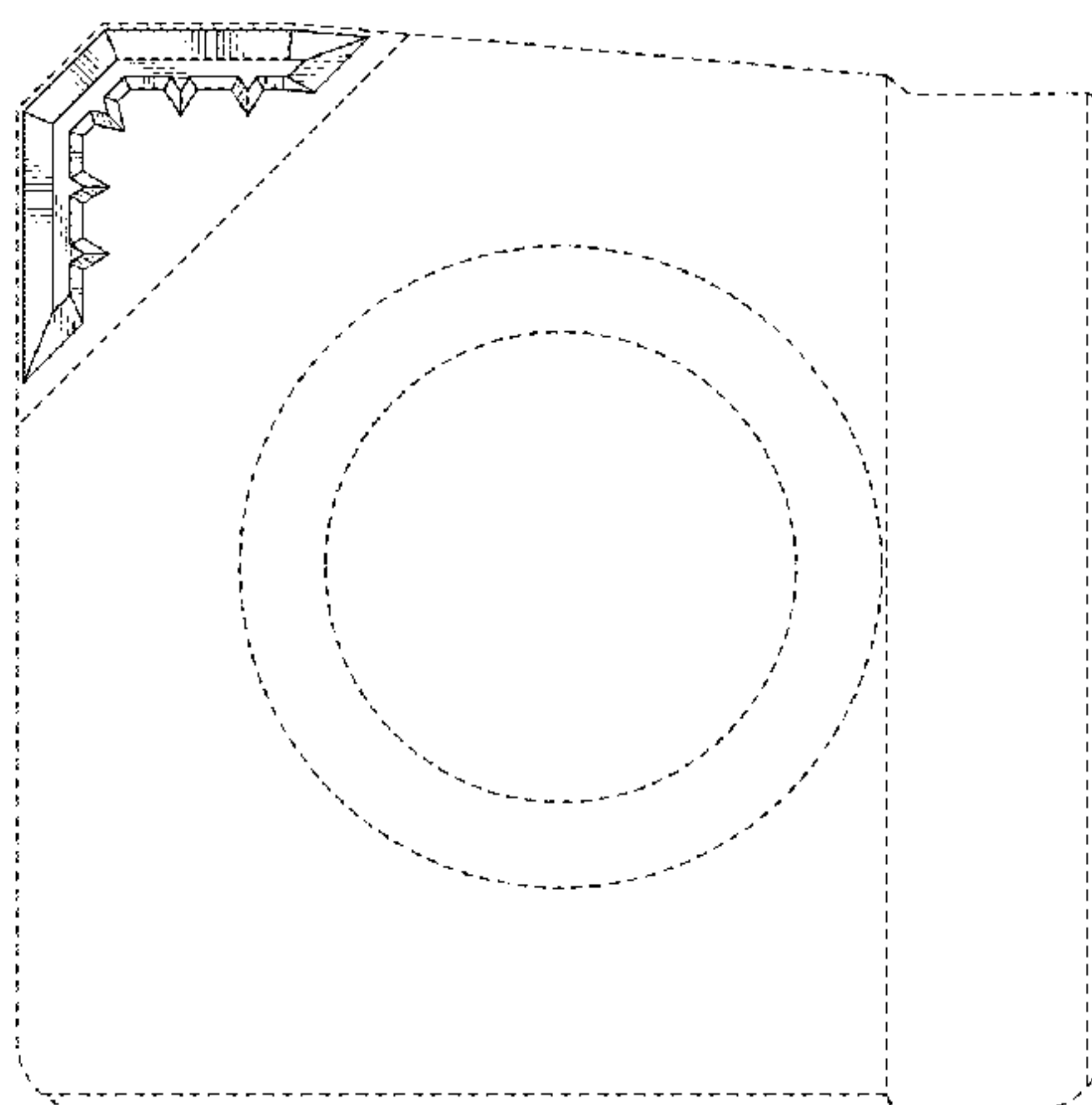
(57) **CLAIM**

The ornamental design for a throw-away tip for metal cutting tool, as shown and described.

DESCRIPTION

FIG. 1 is a front view of a first embodiment of a throw-away tip for metal cutting tool showing our new design, FIG. 2 is a rear view thereof; FIG. 3 is a top view thereof; FIG. 4 is a bottom view thereof; FIG. 5 is a right side view thereof; FIG. 6 is a left side view thereof; FIG. 7 is a first perspective view thereof; FIG. 8 is a second perspective view thereof; FIG. 9 is a referential top view thereof; FIG. 10 is a cross sectional view taken along line 10-10 of FIG. 9; and, FIG. 11 is a cross sectional view taken along line 11-11 of FIG. 9.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,116,167 A * 5/1992 Niebauer B23B 27/143
407/114

5,180,258 A * 1/1993 Bernadic B23B 27/143
407/114

5,265,985 A * 11/1993 Boppana B23B 27/143
407/114

D362,859 S * 10/1995 Wiman D15/139

5,577,867 A * 11/1996 Paya B23B 27/141
407/114

D430,178 S * 8/2000 Hartlohner D15/139

D487,755 S * 3/2004 Kasperik D15/139

D487,757 S * 3/2004 Kasperik D15/139

D487,758 S * 3/2004 Kasperik D15/139

D487,759 S * 3/2004 Kasperik D15/139

D488,176 S * 4/2004 Kasperik D15/139

D491,588 S * 6/2004 Kasperik D15/139

D503,181 S * 3/2005 Kasperik D15/139

7,234,901 B2 * 6/2007 Ishida B23B 27/141
407/114

D636,418 S * 4/2011 Chen D15/139

7,934,891 B2 * 5/2011 Jonsson B23B 27/10
407/114

8,262,324 B2 * 9/2012 Park B23B 27/141
407/113

8,459,162 B2 * 6/2013 Kimura B23B 27/1644
407/104

D748,169 S * 1/2016 Tomoda D15/139

D755,266 S * 5/2016 Tomoda D15/139

2015/0016902 A1 * 1/2015 Okamura B23B 27/145
407/116

2015/0078844 A1 * 3/2015 Majima B23B 27/1607
407/114

FOREIGN PATENT DOCUMENTS

JP D1522101 S 4/2015

JP D1528795 S 7/2015

KR 30-0778800 1/2015

KR 30-0778800 S 1/2015

OTHER PUBLICATIONS

Notice in Japanese Patent Application No. 2015-005891 dated Nov. 16, 2015.

* cited by examiner

FIG.1



FIG.2

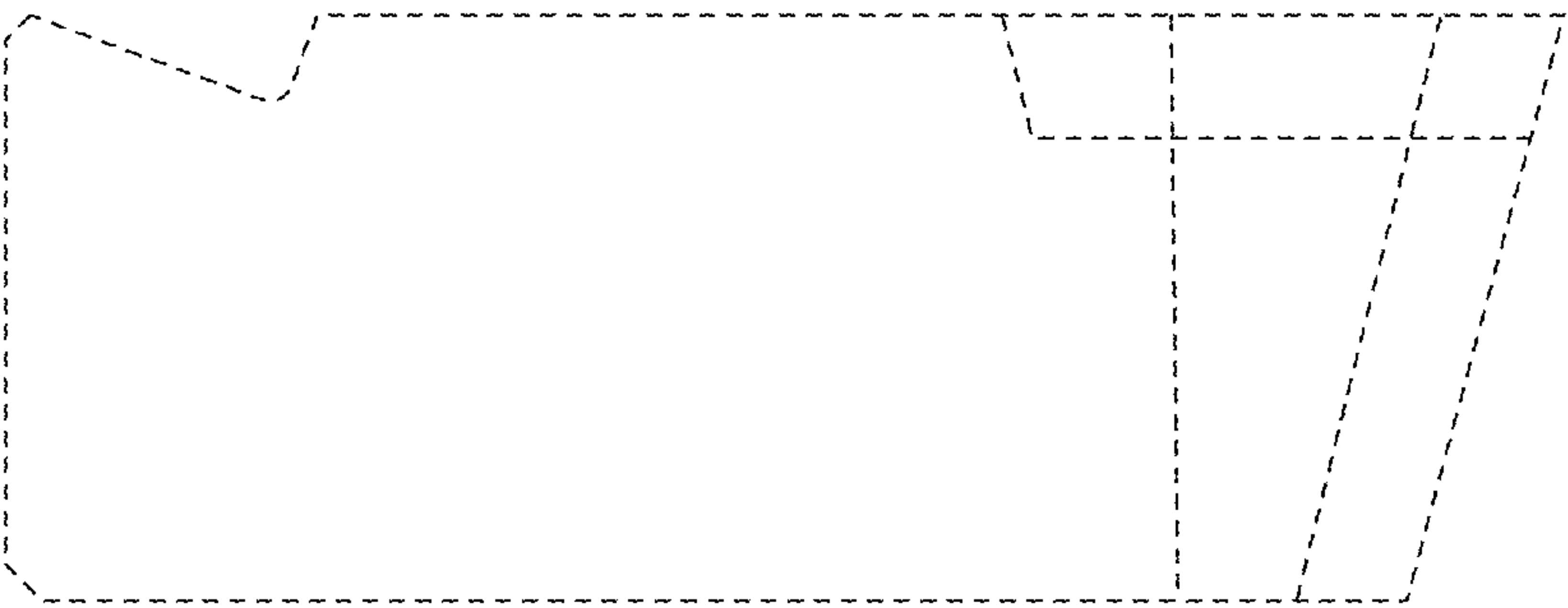


FIG.3

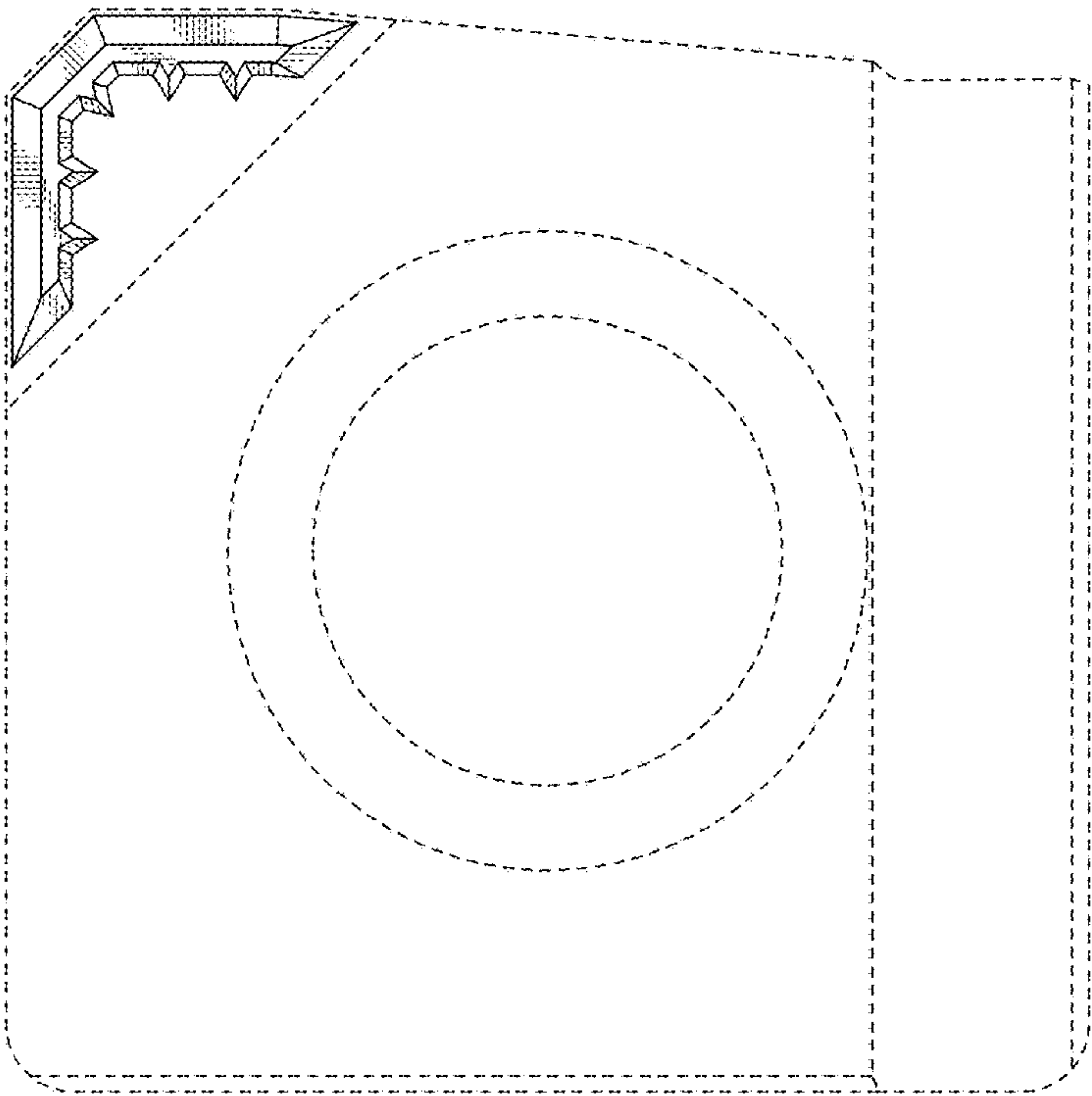


FIG.4

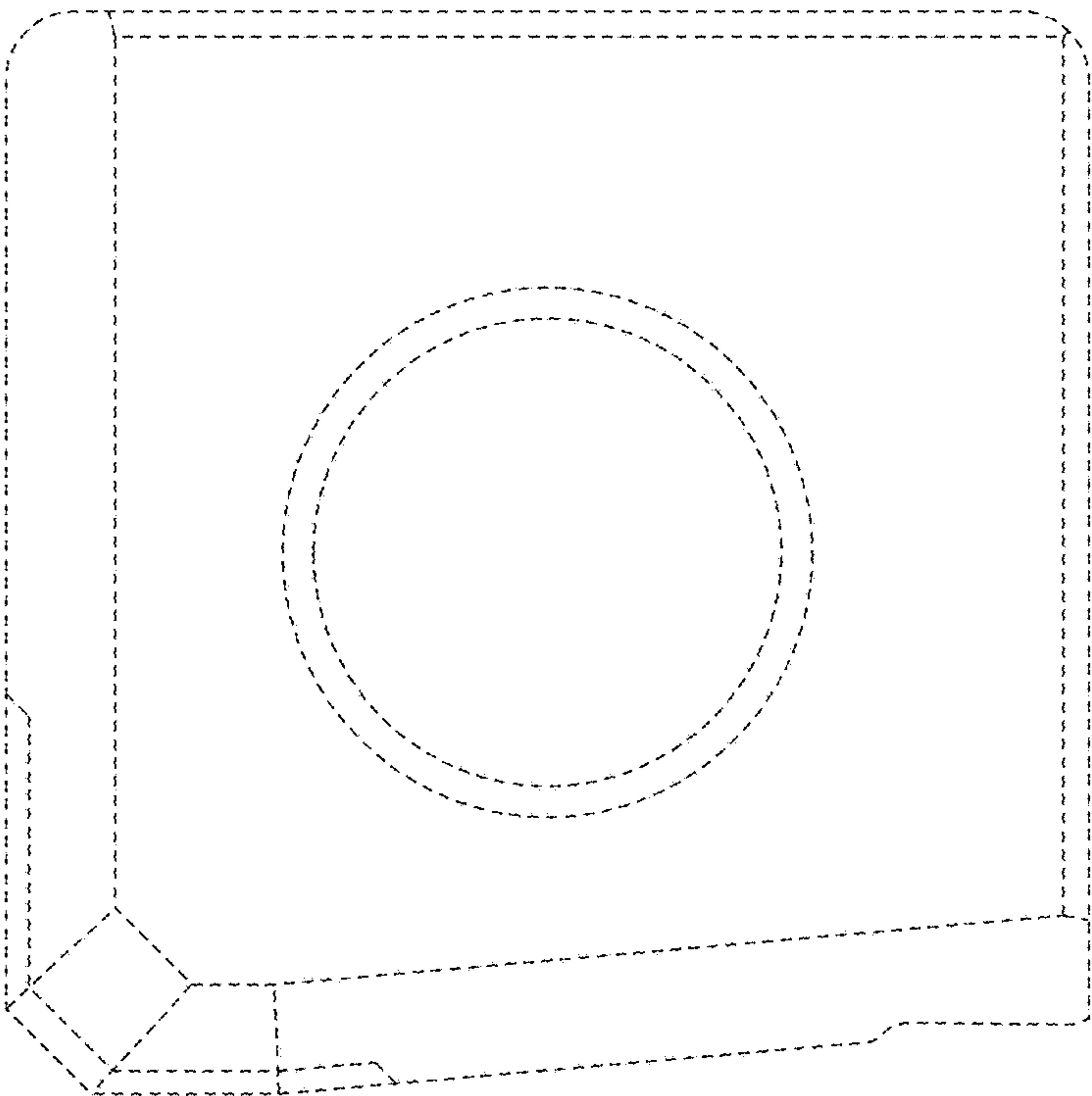


FIG.5

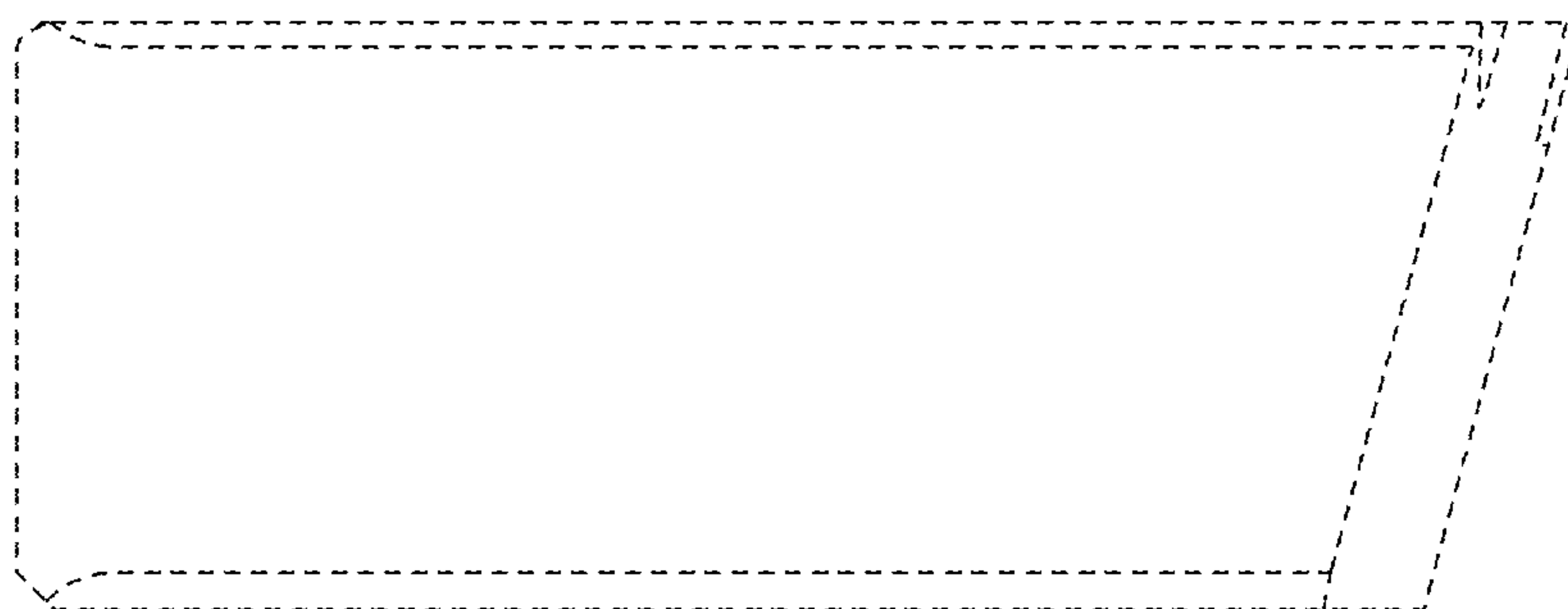


FIG.6

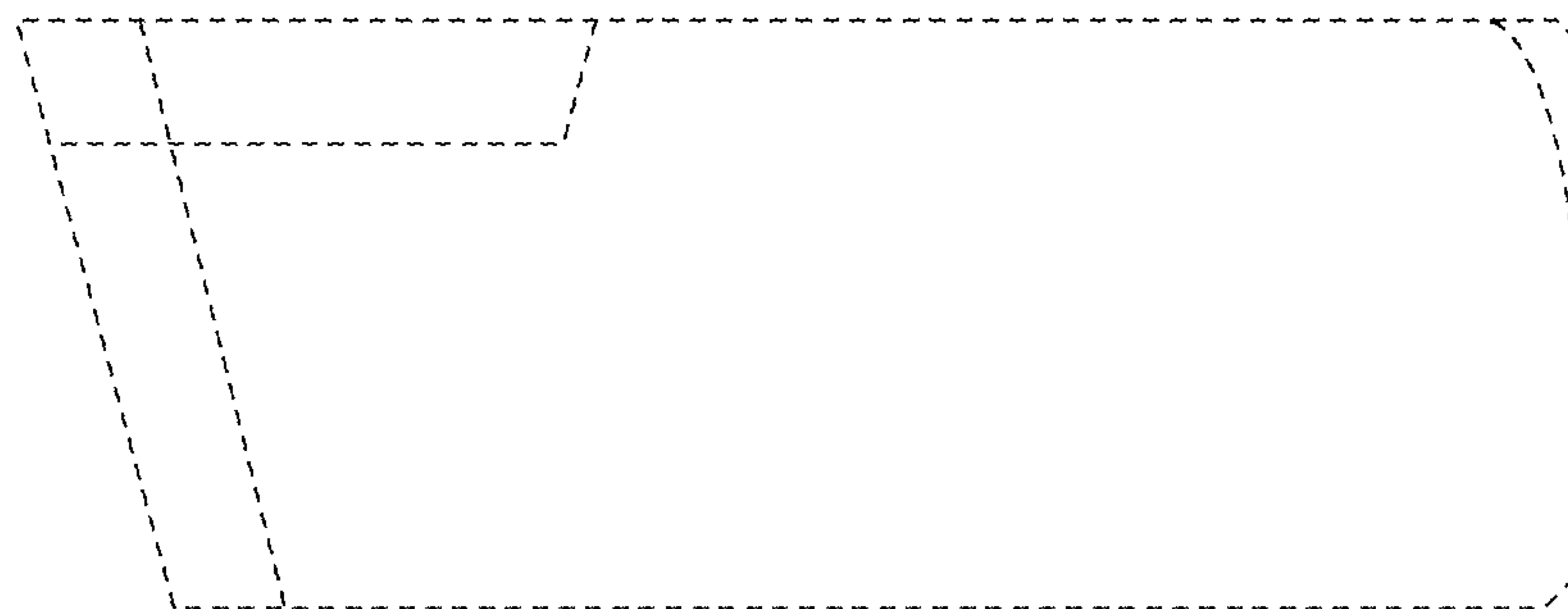


FIG.7

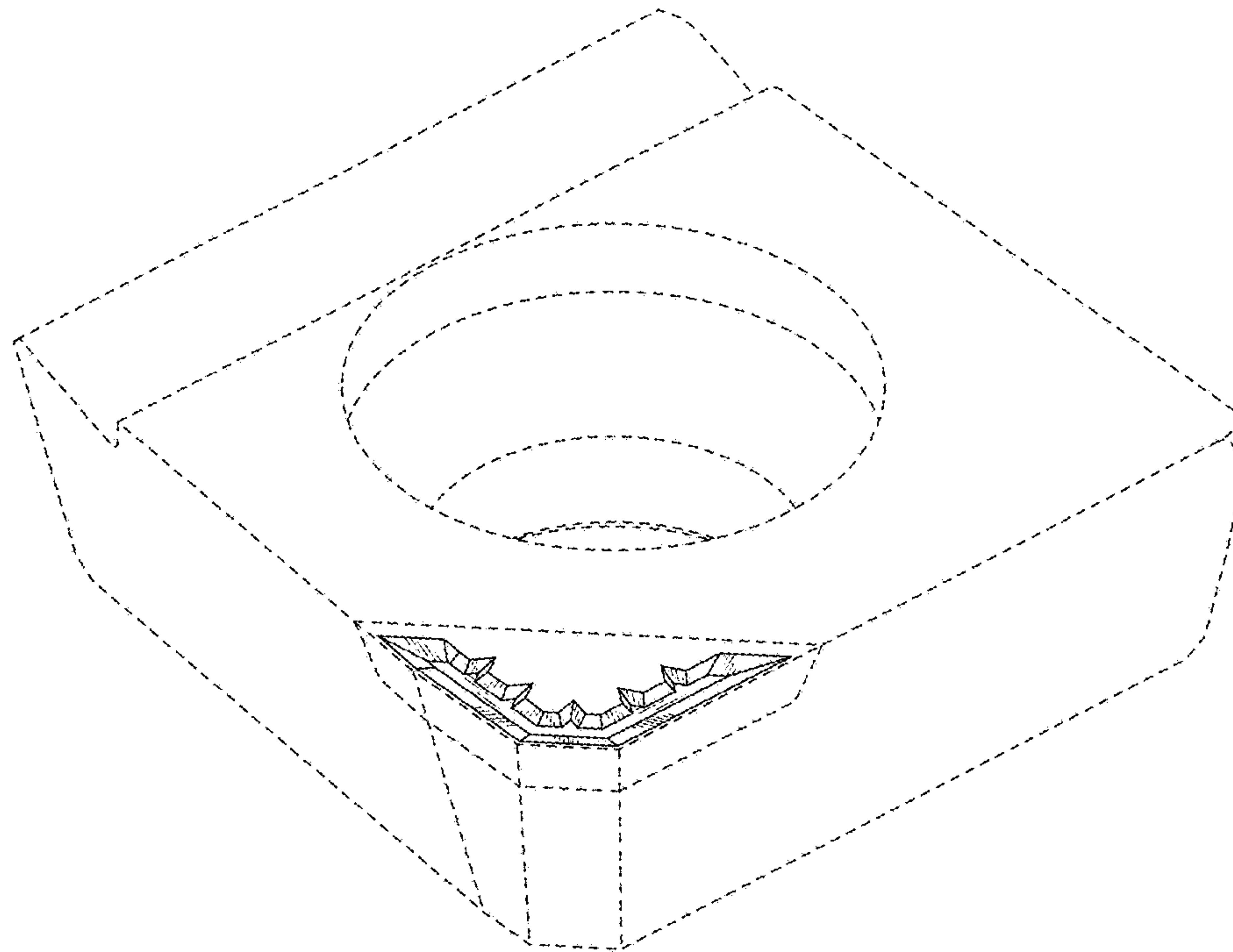


FIG.8

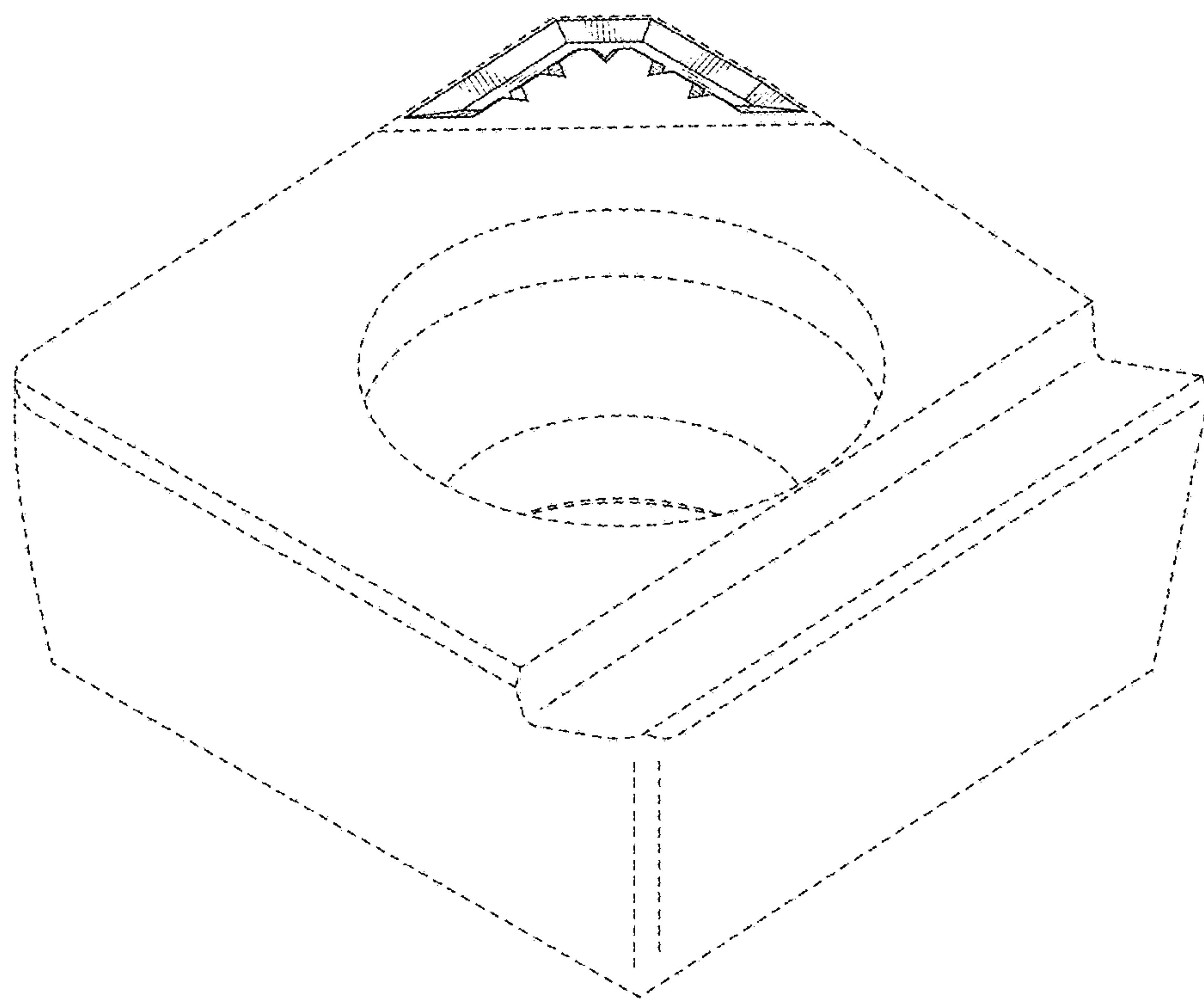


FIG.9

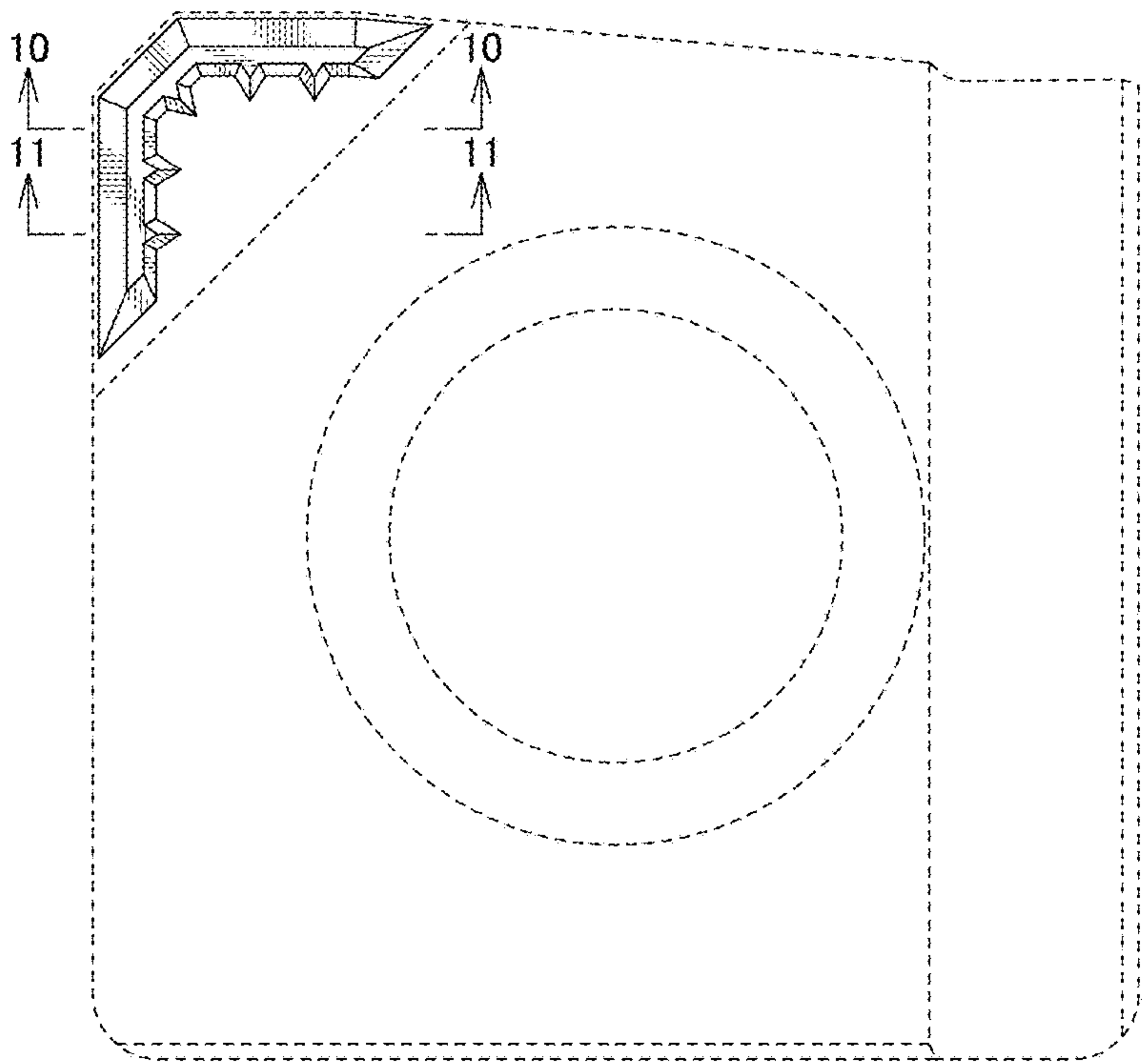


FIG.10

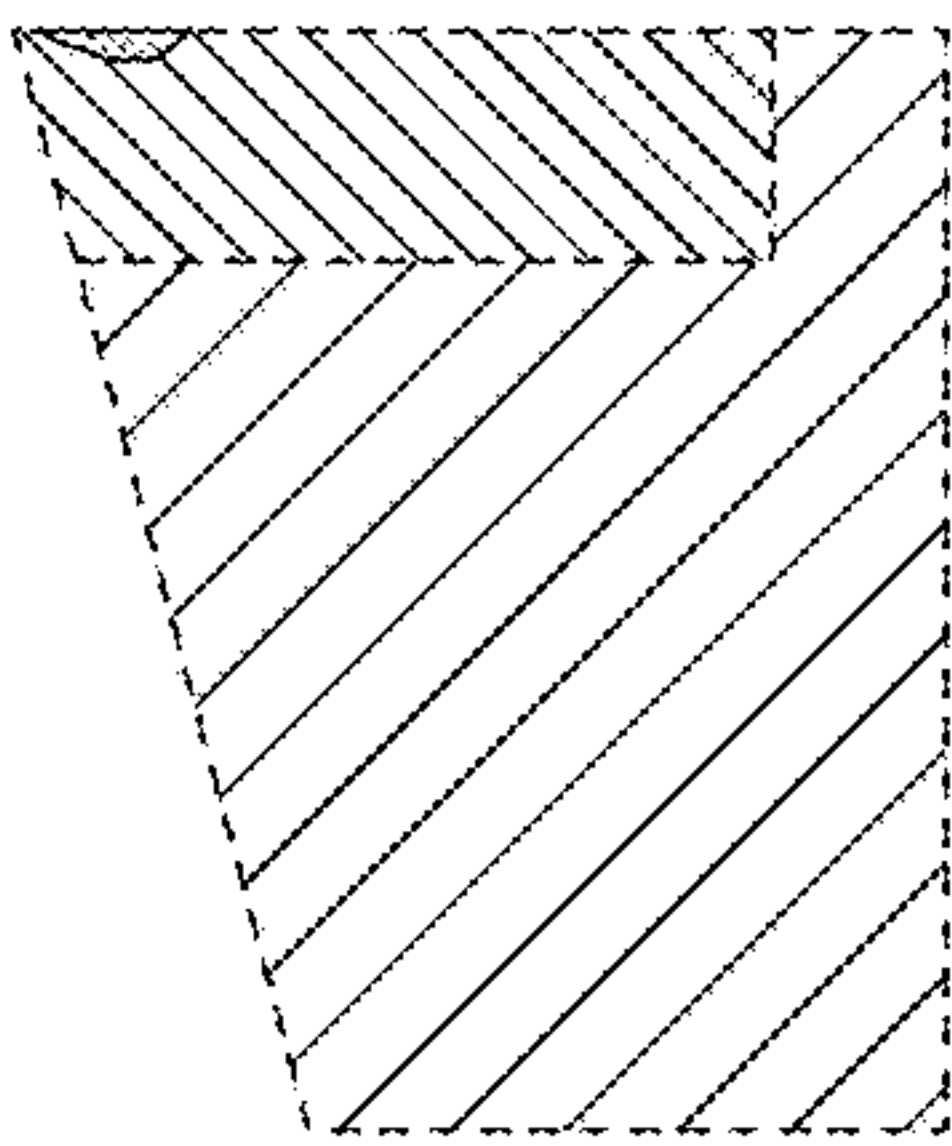


FIG.11

