



US00D794691S

(12) **United States Design Patent** (10) **Patent No.:** **US D794,691 S**
Yano (45) **Date of Patent:** **** Aug. 15, 2017**

(54) **DRILLING TOOL**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **Sumitomo Electric Hardmetal Corp.**,
Itami-shi (JP)

TW D156297 10/2013

(72) Inventor: **Kazuya Yano**, Itami (JP)

OTHER PUBLICATIONS

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

Notice of Allowance in Taiwanese Design Application No.
103304982 dated Apr. 9, 2015.

(Continued)

(**) Term: **14 Years**

Primary Examiner — Susan Bennett Hattan

(21) Appl. No.: **29/500,563**

Assistant Examiner — Brett Miller

(22) Filed: **Aug. 26, 2014**

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

(30) **Foreign Application Priority Data**

Feb. 26, 2014 (JP) 2014-003860
Feb. 26, 2014 (JP) 2014-003905
Feb. 26, 2014 (JP) 2014-003906

(57) **CLAIM**

The ornamental design for a drilling tool, as shown and
described.

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

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

DESCRIPTION

(58) **Field of Classification Search**
USPC D8/70; D15/139; 175/420.1, 415, 408,
175/426
CPC B23B 2226/125; B23B 2226/315; B23B
2251/18; B23B 51/02
See application file for complete search history.

FIG. 1 is a perspective view of a drilling tool showing my
new design, with a middle portion between dash-dot-dash
lines omitted,
FIG. 2 is a front view thereof, with a middle portion between
dash-dot-dash lines omitted,
FIG. 3 is a plan view thereof, with a middle portion between
dash-dot-dash lines omitted,
FIG. 4 is a left side view thereof;
FIG. 5 is a right side view thereof;
FIG. 6 is an enlarged left side view thereof;
FIG. 7 is an enlarged perspective view thereof;
FIG. 8 is an enlarged front view thereof;
FIG. 9 is an enlarged plan view thereof;
FIG. 10 is an enlarged left side view thereof; and,
FIG. 11 is a reduced front view thereof.

(56) **References Cited**

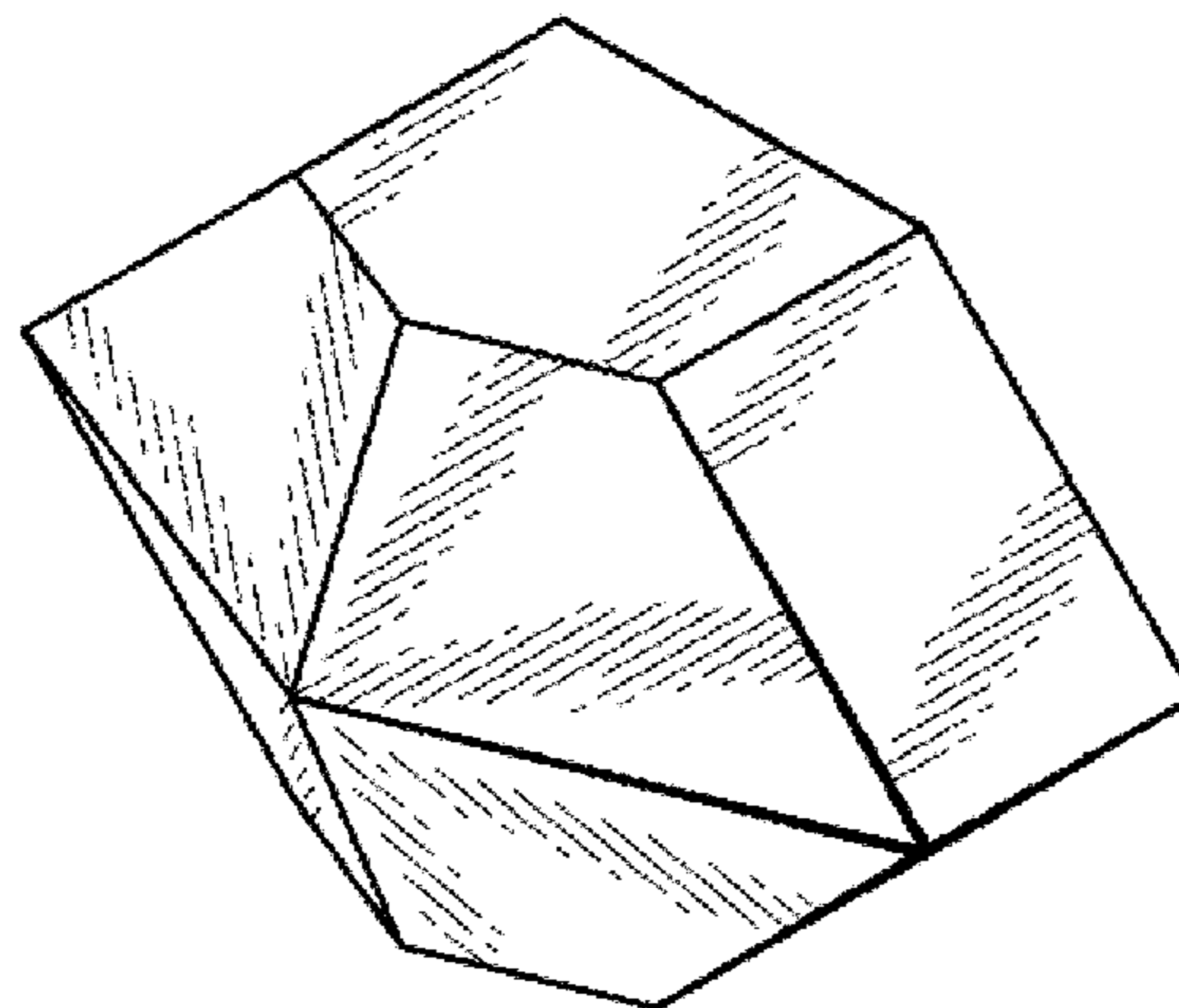
U.S. PATENT DOCUMENTS

5,195,403 A * 3/1993 Sani B23B 27/145
175/428
6,290,008 B1 * 9/2001 Portwood E21B 10/5676
175/420.1
D510,586 S * 10/2005 Sollami D15/139
6,976,549 B2 * 12/2005 Haussmann B23B 51/00
175/415
D531,651 S * 11/2006 Yanagimoto D15/139
D537,091 S * 2/2007 Yanagimoto D15/139
D734,790 S * 7/2015 O'Malley D15/139

All broken lines shown in the drawings represent portions of
the drilling tool that form no part of the claimed design.

(Continued)

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2004/0245023 A1* 12/2004 Barry E21D 21/0053
175/420.1
2008/0247899 A1* 10/2008 Cho B23B 51/02
419/10
2010/0145341 A1* 6/2010 Ranck B23B 51/02
606/80
2014/0014412 A1* 1/2014 Brady E21B 10/36
175/415

OTHER PUBLICATIONS

Office Action in Taiwanese Application No. 103304982D01 dated
Apr. 9, 2015.

Office Action in Taiwanese Application No. 103304982D02 dated
Apr. 9, 2015.

* cited by examiner

FIG.1

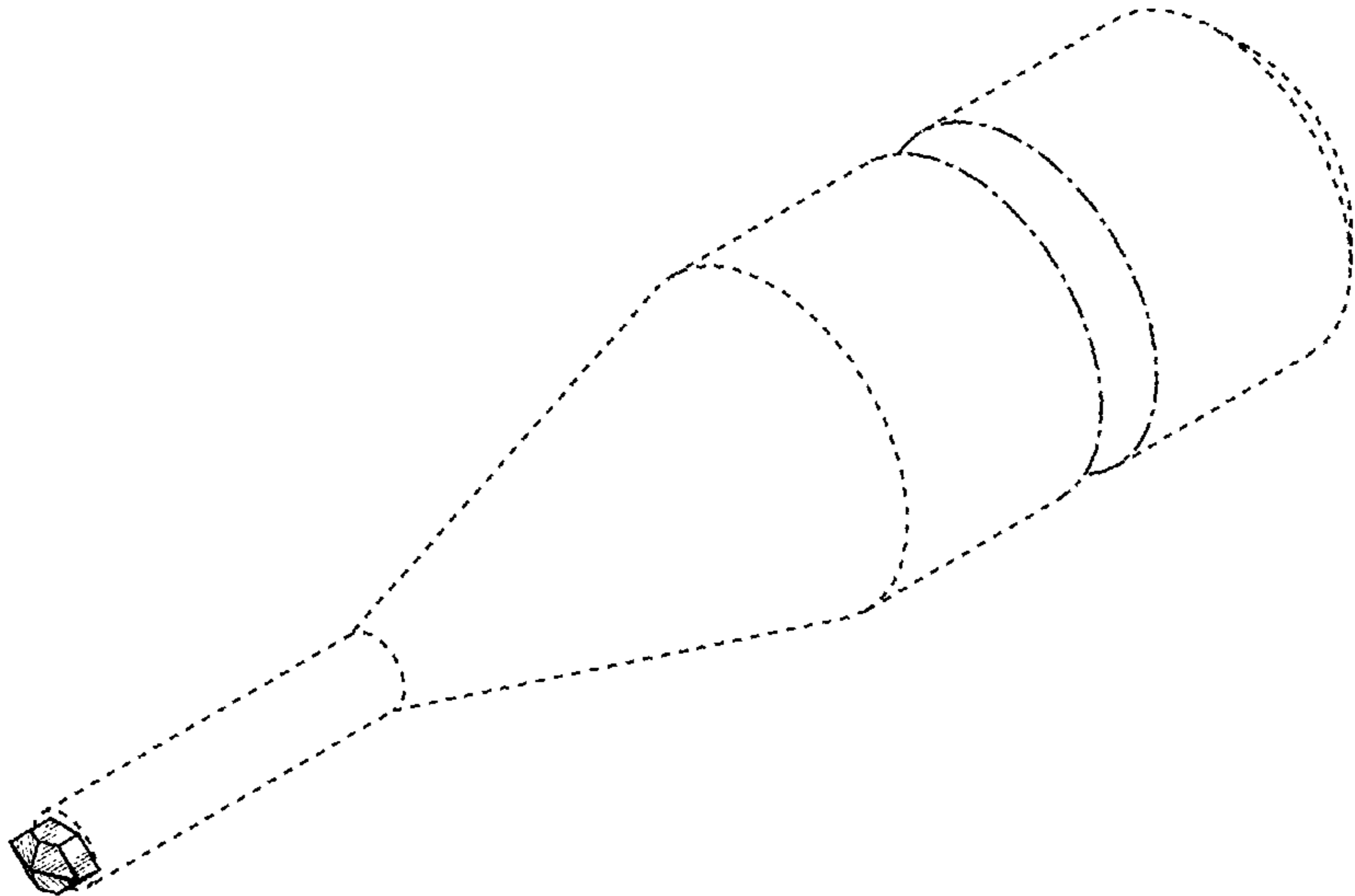


FIG.2

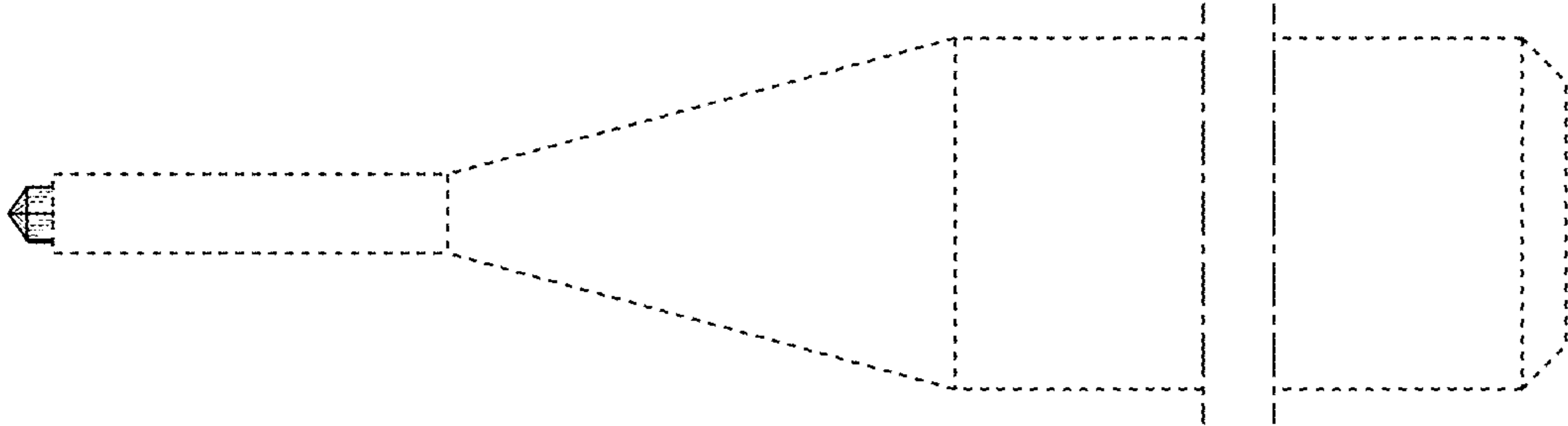


FIG.3

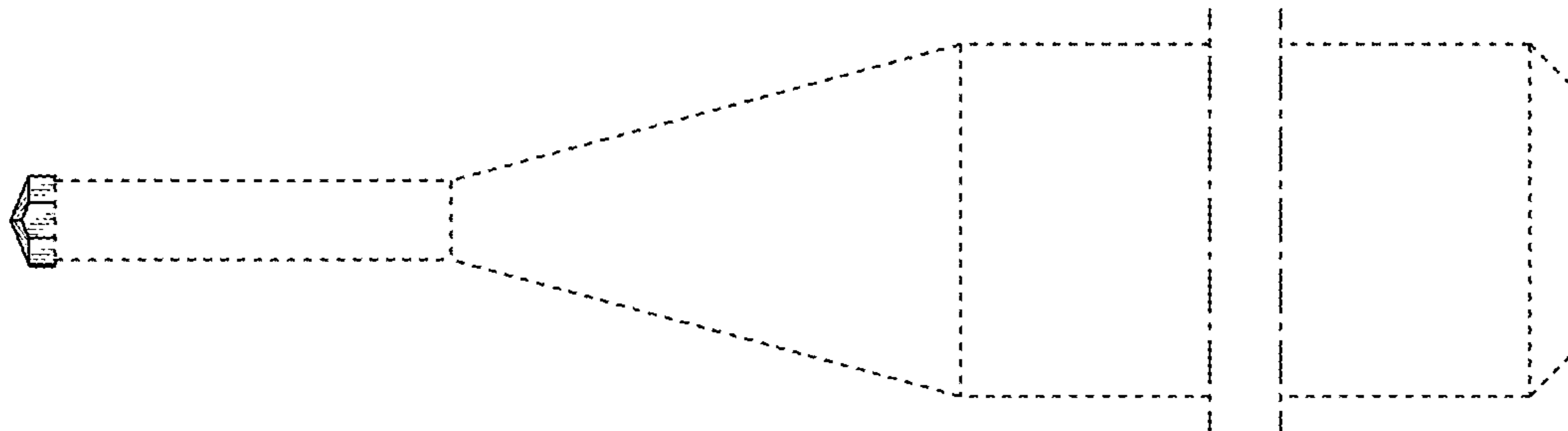


FIG.4

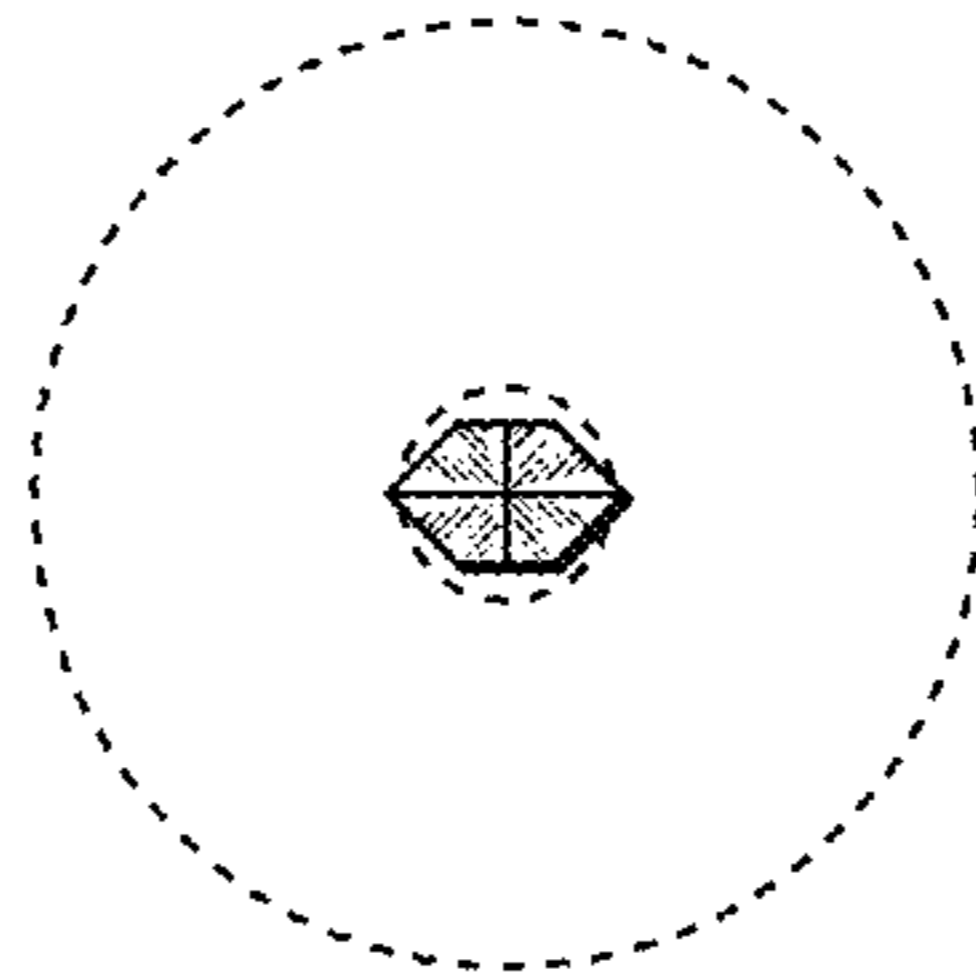


FIG.5

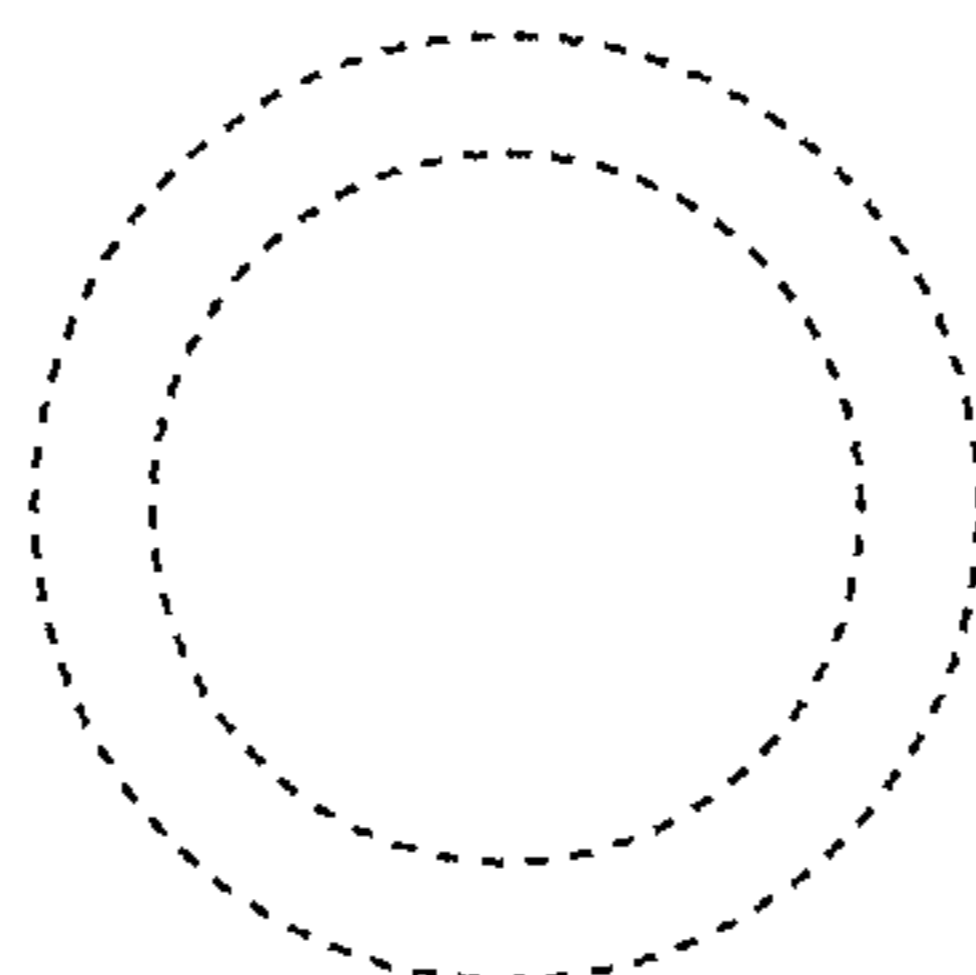


FIG.6

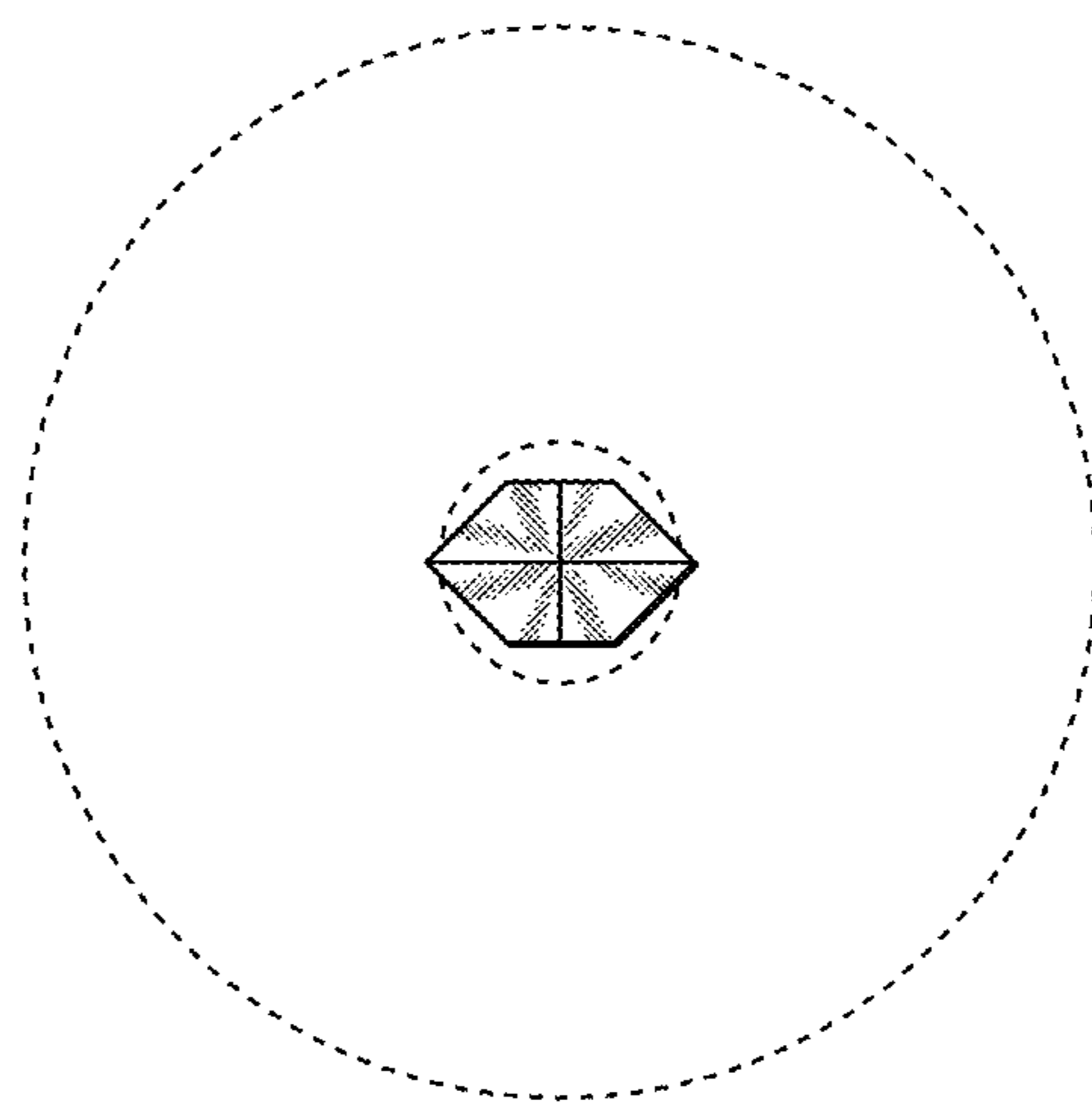


FIG.7

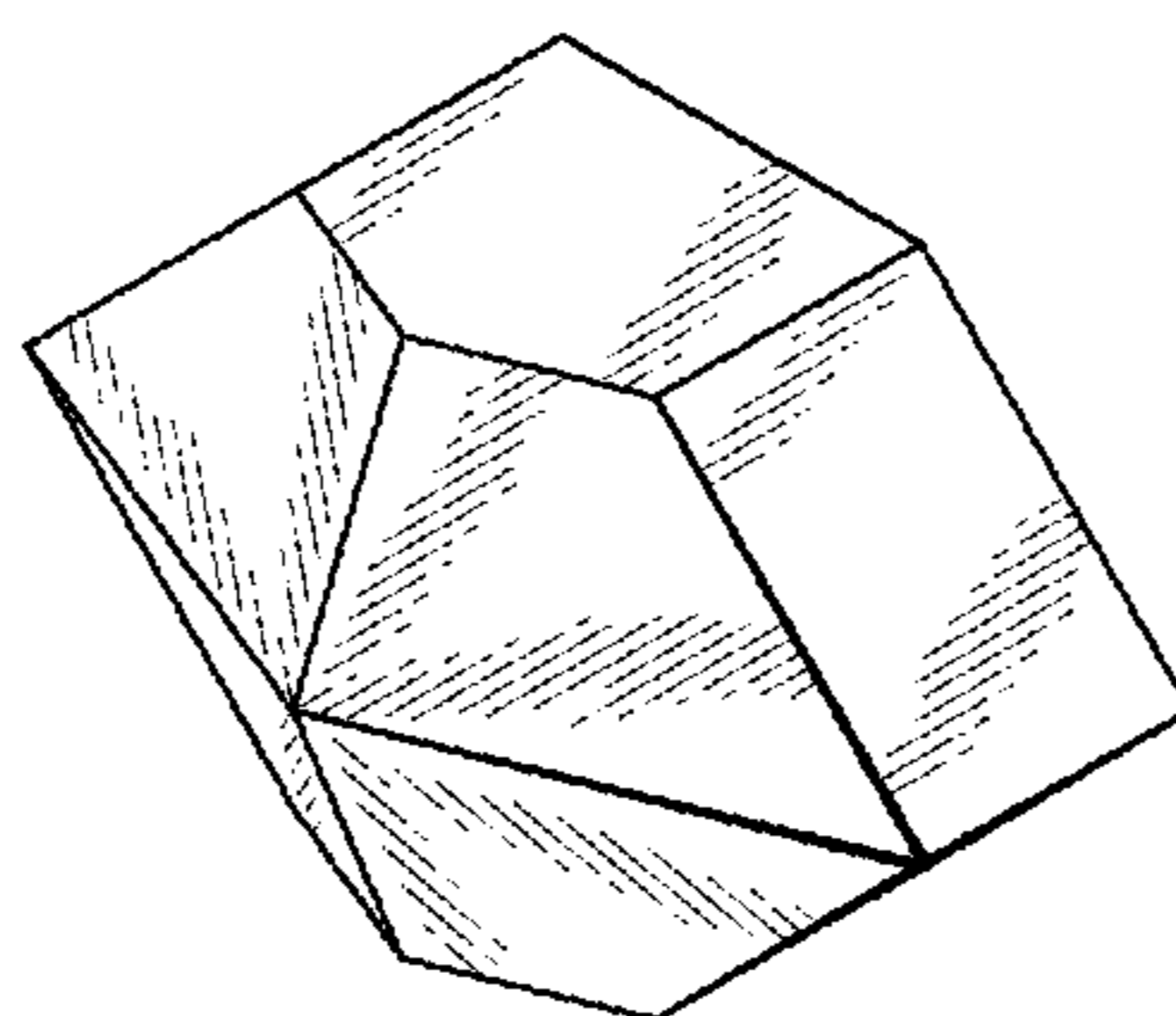


FIG.8

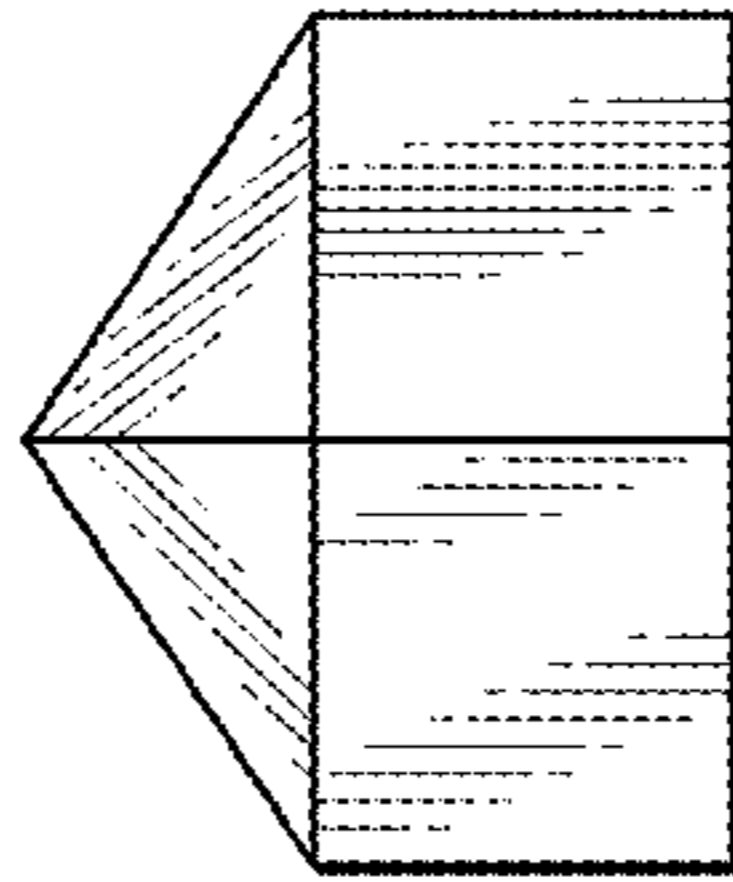


FIG.9

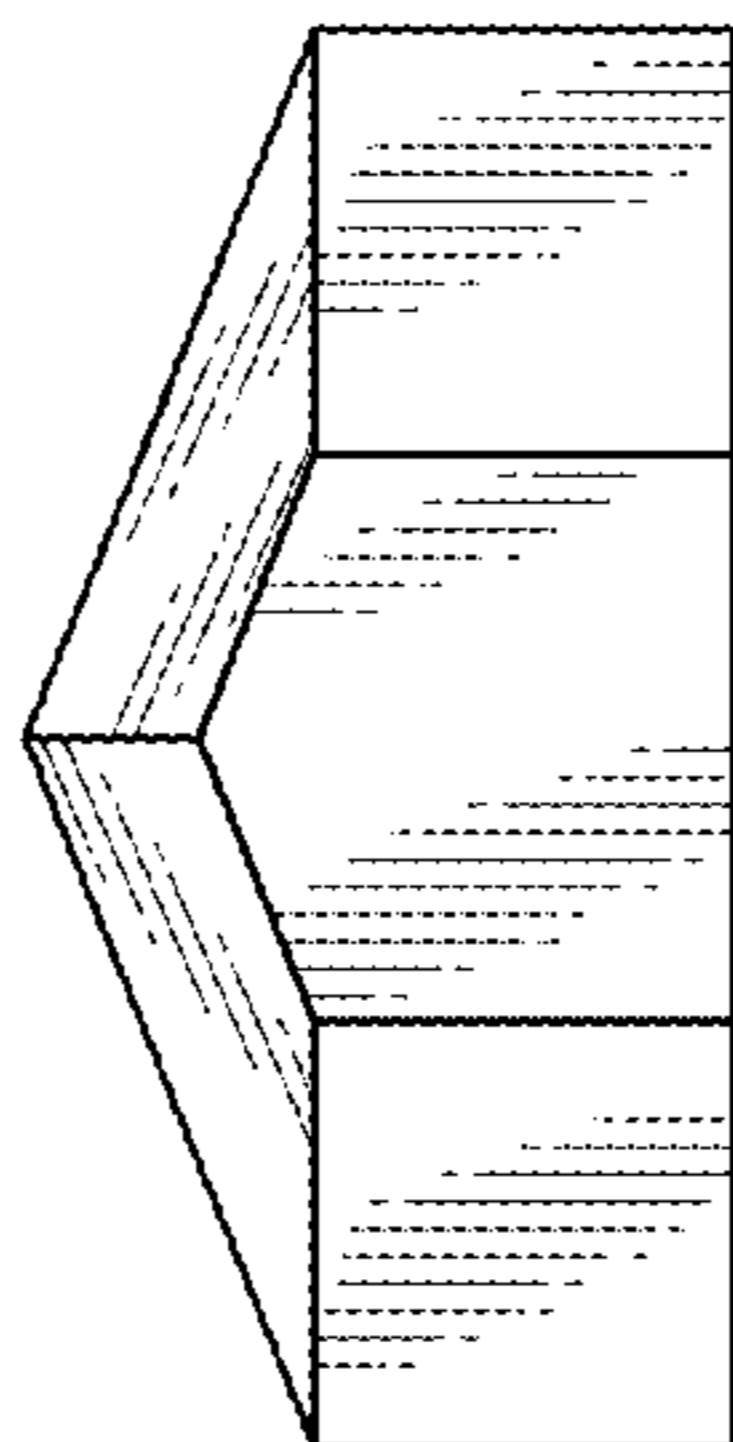


FIG.10

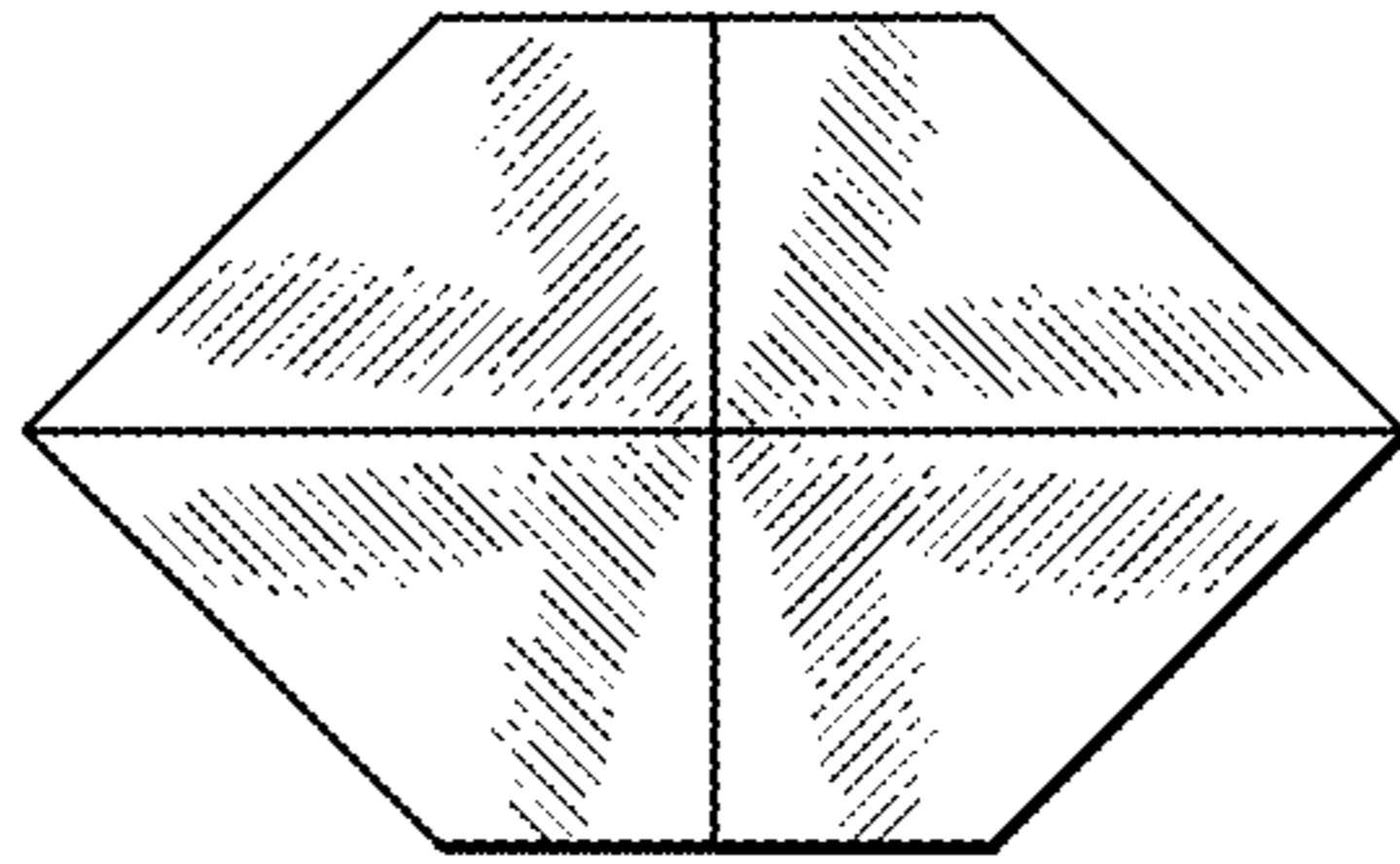


FIG.11

