



US00D872145S

(12) **United States Design Patent** (10) **Patent No.:** US D872,145 S
Maeno et al. (45) **Date of Patent:** ** Jan. 7, 2020

(54) **CUTTING TOOL**

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

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

(21) Appl. No.: **29/670,674**

(22) Filed: **Nov. 19, 2018**

Related U.S. Application Data

(62) Division of application No. 29/592,600, filed on Jan. 31, 2017.

Foreign Application Priority Data

Jun. 17, 2016 (JP) 2016-013008
Jun. 17, 2016 (JP) 2016-013009
(Continued)

(51) **LOC (12) Cl.** **15-03**

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

(58) **Field of Classification Search**
USPC D15/131, 138, 139, 140; D8/70
(Continued)

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(Continued)

Primary Examiner — Khawaja Anwar

(74) *Attorney, Agent, or Firm* — Baker Botts L.L.P.;
Michael A. Sartori

CLAIM

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

DESCRIPTION

FIG. 1 is a front view of a cutting tool in accordance with Embodiment 1 of the present 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 perspective view thereof;
FIG. 8 is an enlarged view of 8-8 portion of FIG. 3;
FIG. 9 is an enlarged perspective view of 8-8 portion of FIG. 3;
FIG. 10 is an enlarged front view of 8-8 portion of FIG. 3;
FIG. 11 is an enlarged rear view of 8-8 portion of FIG. 3;
FIG. 12 is an enlarged left side view of 8-8 portion of FIG. 3;
FIG. 13 is a cross sectional view taken along line 13-13 of FIG. 3;
FIG. 14 is a cross sectional view taken along line 14-14 of FIG. 3;
FIG. 15 is a cross sectional view taken along line 15-15 of FIG. 8;
FIG. 16 is a cross sectional view taken along line 16-16 of FIG. 8;
FIG. 17 is a cross sectional view taken along line 17-17 of FIG. 8;
FIG. 18 is a cross sectional view taken along line 18-18 of FIG. 8;
FIG. 19 is a cross sectional view taken along line 19-19 of FIG. 8;
FIG. 20 is a referential enlarged perspective view of 8-8 portion of FIG. 3;
FIG. 21 is a front view of a cutting tool in accordance with Embodiment 2 of the present design;
FIG. 22 is a rear view thereof;

(Continued)

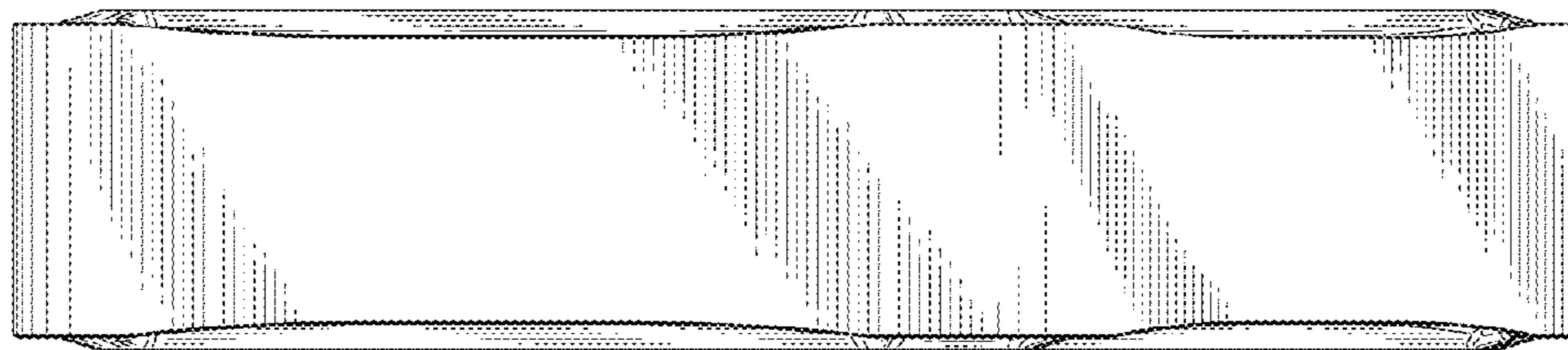


FIG. 23 is a top view thereof;
 FIG. 24 is a bottom view thereof;
 FIG. 25 is a right side view thereof;
 FIG. 26 is a left side view thereof;
 FIG. 27 is a perspective view thereof;
 FIG. 28 is an enlarged view of 28-28 portion of FIG. 23;
 FIG. 29 is an enlarged perspective view of 28-28 portion of FIG. 23;
 FIG. 30 is an enlarged front view of 28-28 portion of FIG. 23;
 FIG. 31 is an enlarged rear view of 28-28 portion of FIG. 23;
 FIG. 32 is an enlarged left side view of 28-28 portion of FIG. 23;
 FIG. 33 is a cross sectional view taken along line 33-33 of FIG. 23;
 FIG. 34 is a cross sectional view taken along line 34-34 of FIG. 23;
 FIG. 35 is a cross sectional view taken along line 35-35 of FIG. 28;
 FIG. 36 is a cross sectional view taken along line 36-36 of FIG. 28;
 FIG. 37 is a cross sectional view taken along line 37-37 of FIG. 28;
 FIG. 38 is a cross sectional view taken along line 38-38 of FIG. 28;
 FIG. 39 is a cross sectional view taken along line 39-39 of FIG. 28; and,
 FIG. 40 is a referential enlarged perspective view of 28-28 portion of FIG. 23.

1 Claim, 20 Drawing Sheets

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Jun. 17, 2016 (JP) 2016-013010
 Jun. 17, 2016 (JP) 2016-013011
 Jun. 17, 2016 (JP) 2016-013012

(58) Field of Classification Search

CPC B23C 5/207; B23C 5/06; B23C 2200/125;
 B23C 5/202; B23C 2200/203; B23C
 2200/208; B23C 2210/168; B23C 5/109;
 B23C 2200/128; B23C 2200/205; B23C
 2200/367; B23C 5/20; B23C 5/2221;
 B23C 2200/286; B23C 2200/0461; B23C
 2200/0494; B23C 2200/085; B23C
 2200/165; B23C 2200/201; B23C
 2210/045; B23C 5/10; B23C 2200/0411;

B23C 2200/0416; B23C 2200/0455;
 B23C 2200/123; B23C 2210/0457; B23C
 5/006; B23C 5/2247; B23C 5/28; B23C
 2200/0422; B23C 2200/0433; B23C
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 2200/366; B23C 2210/16; B23C
 2210/161; B23C 2220/16; B23C 2228/10;
 B23C 2250/12; B23C 5/08; B23C 5/16;
 B23C 5/205; B23C 5/2213; B23C 5/2273;
 B23C 2200/0466; B23C 2200/12; B23C
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 3/12; B23C 5/003; B23C 5/1027; B23C
 5/1045; B23C 5/18; B23C 5/22; B23C
 5/2204; B23C 5/2208; B23C 5/2239;
 B23C 5/2269; B23C 5/2406; B23C 5/241;
 B23C 5/242; B23C 5/2462; B23C 5/2472

See application file for complete search history.

(56)

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D822,731	S	*	7/2018	Yoshida	D15/139
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* cited by examiner

FIG.1

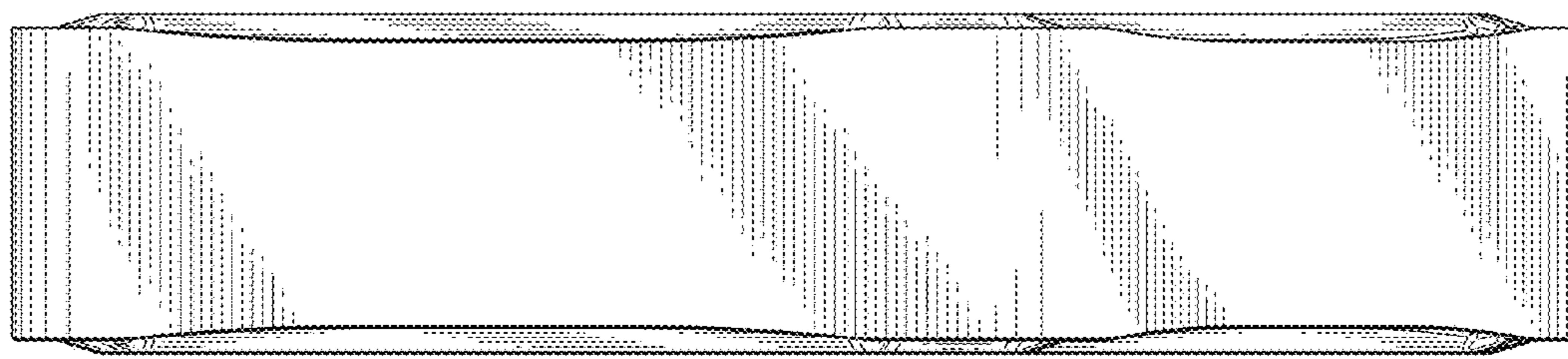


FIG.2

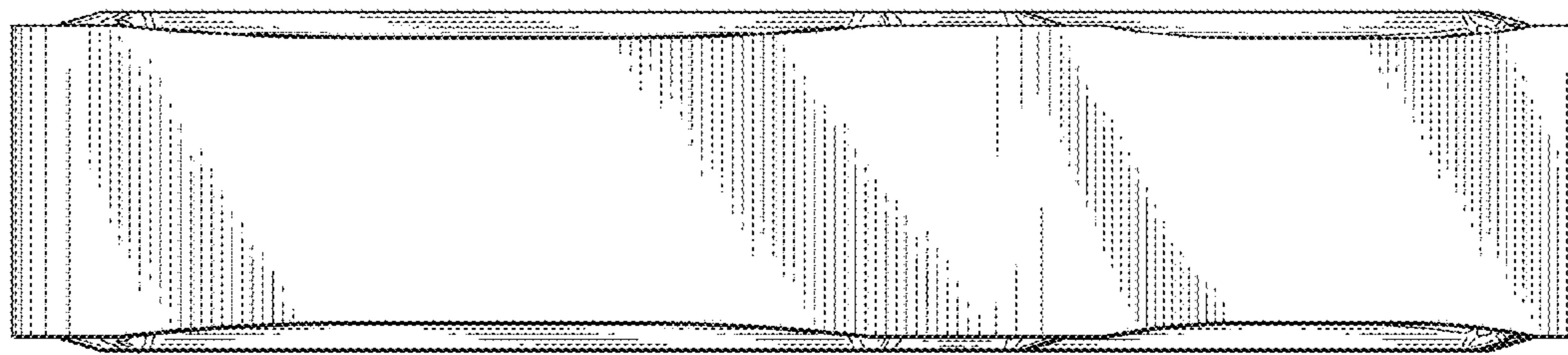


FIG.3

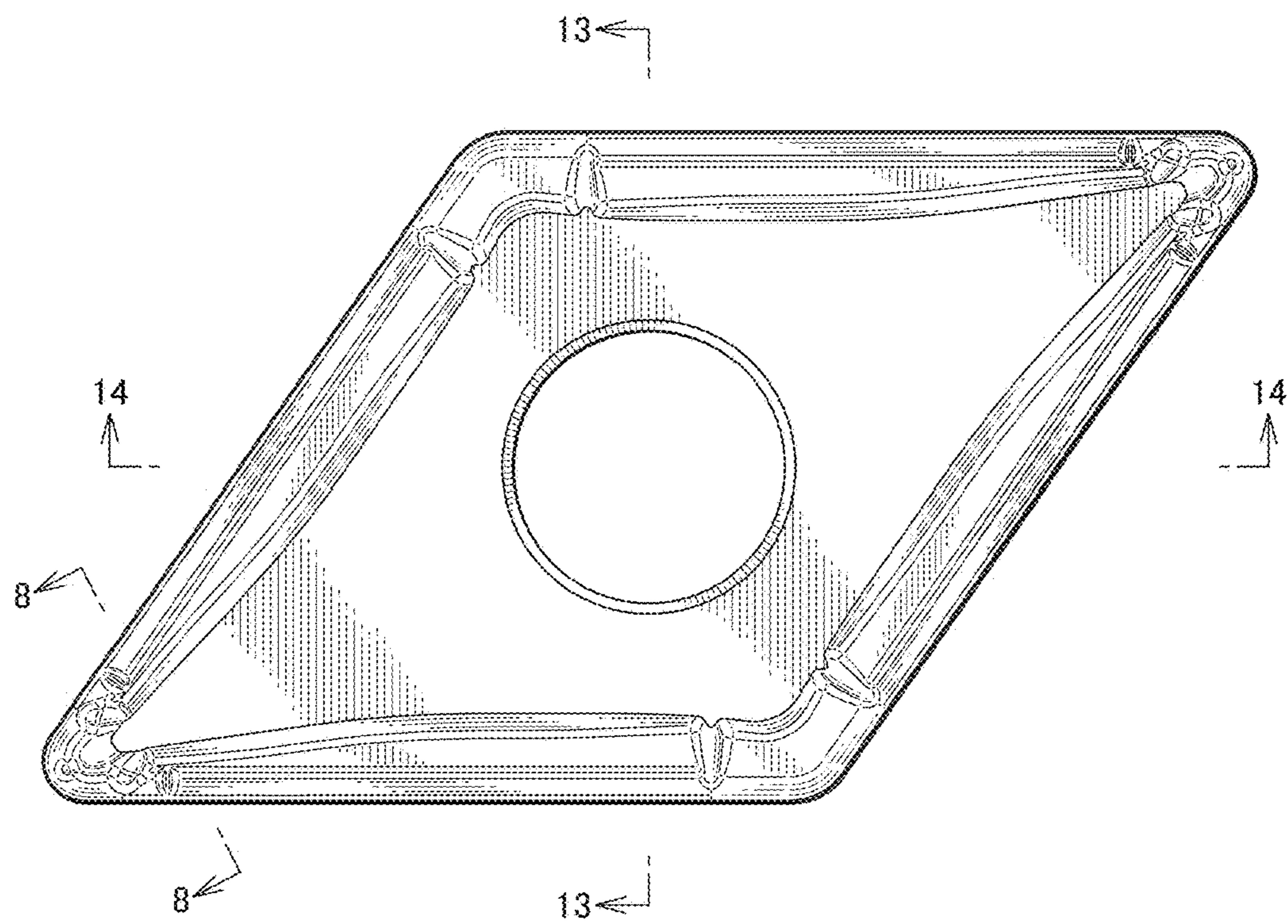


FIG.4

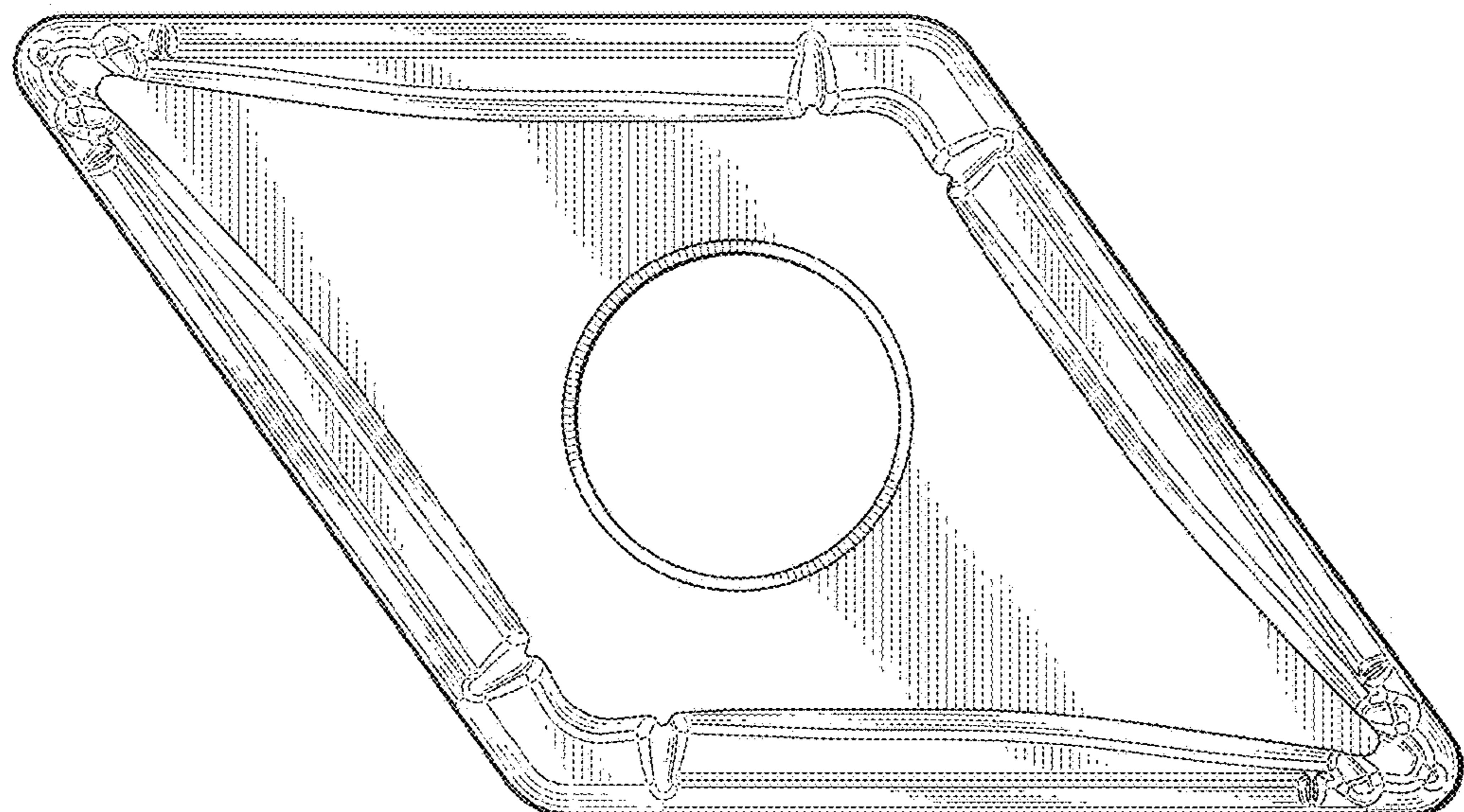


FIG.5

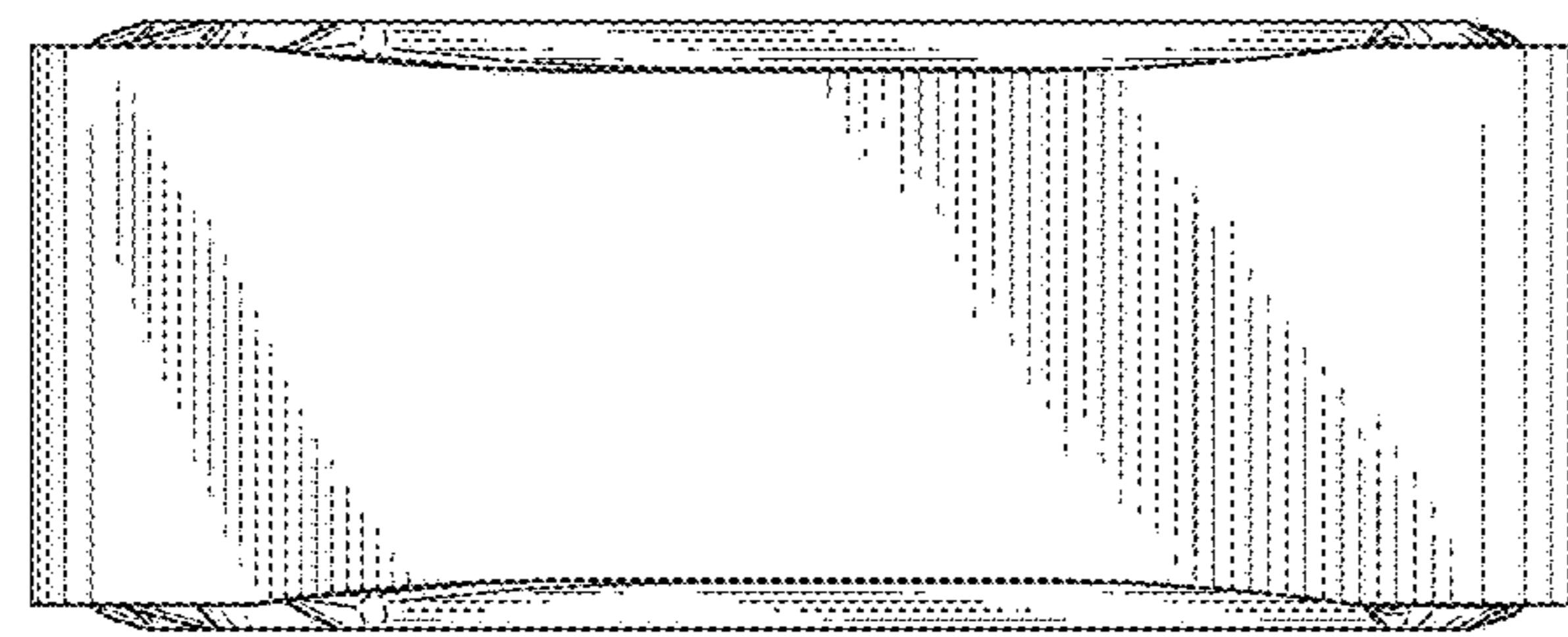


FIG.6

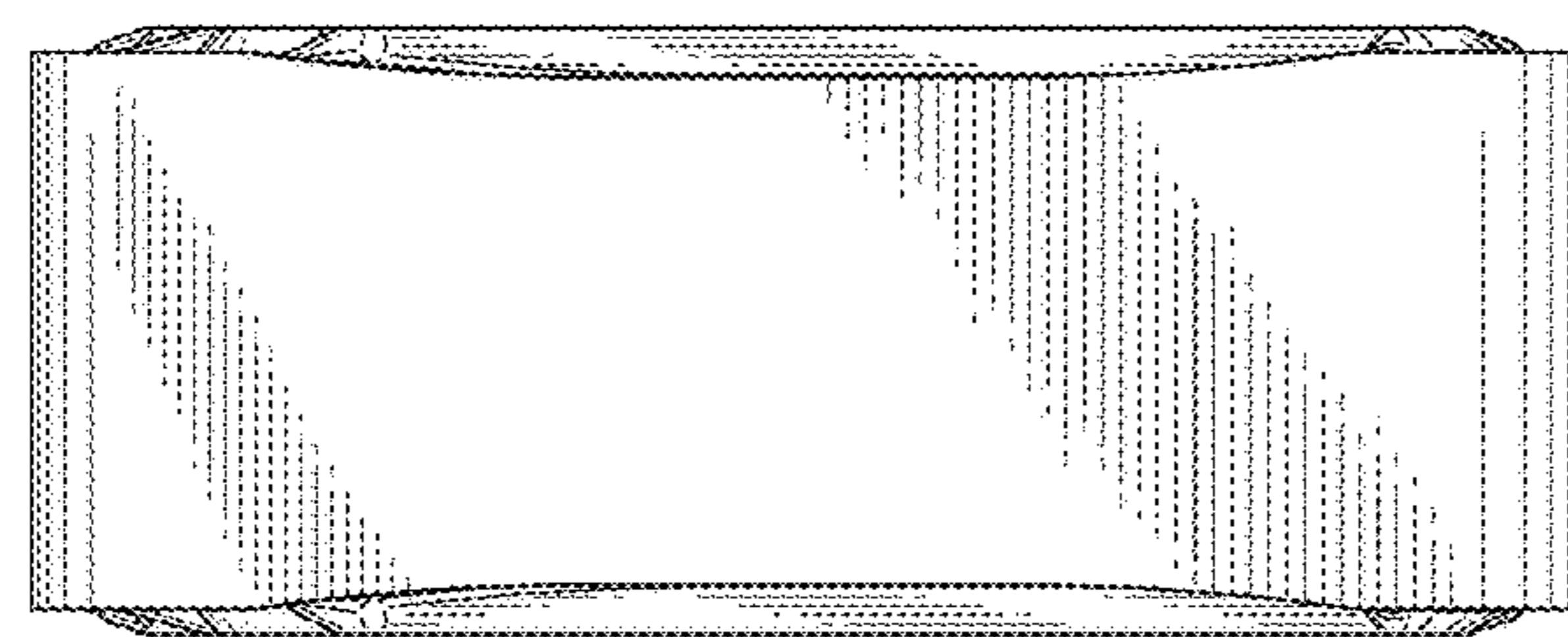


FIG.7

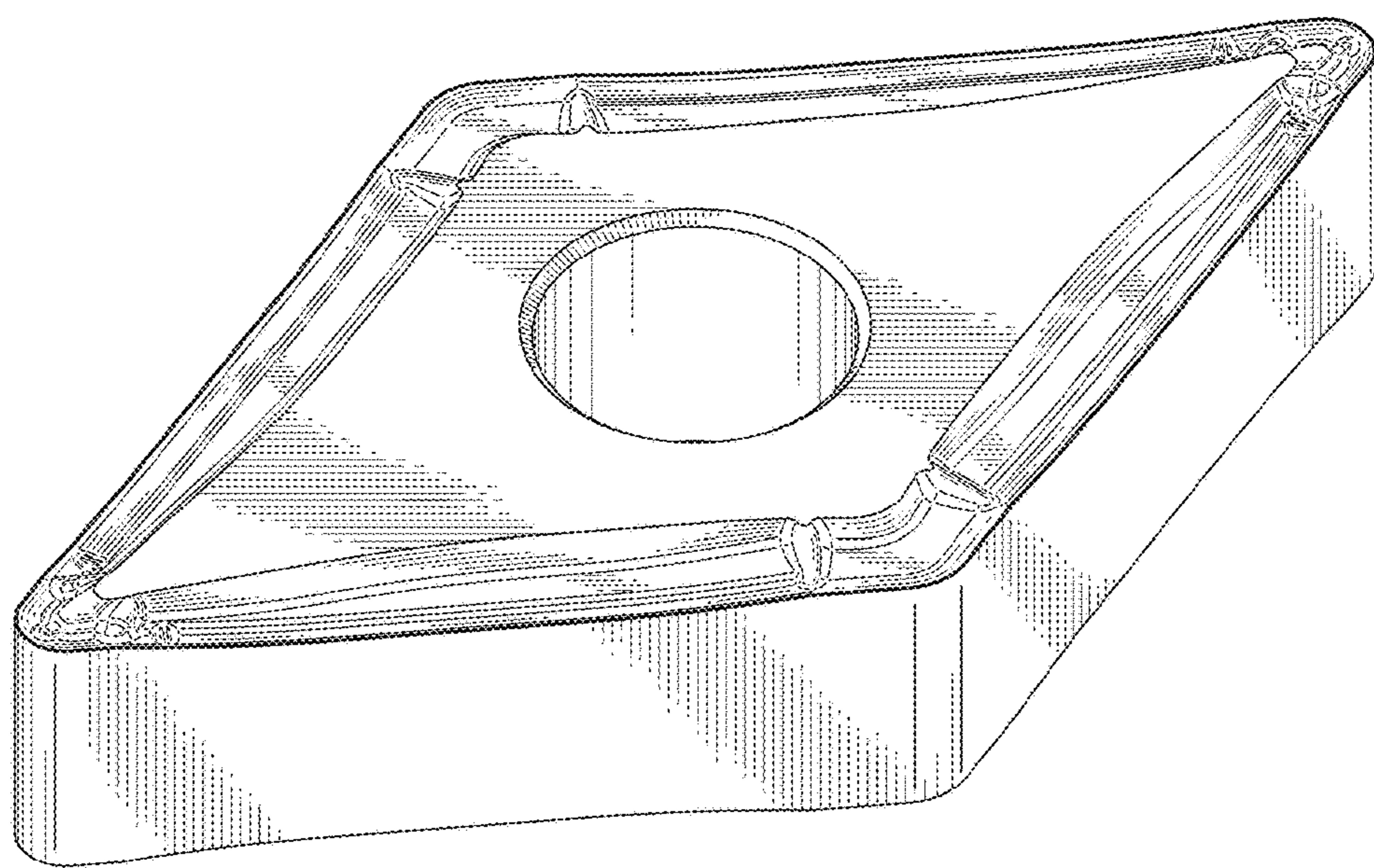


FIG.8

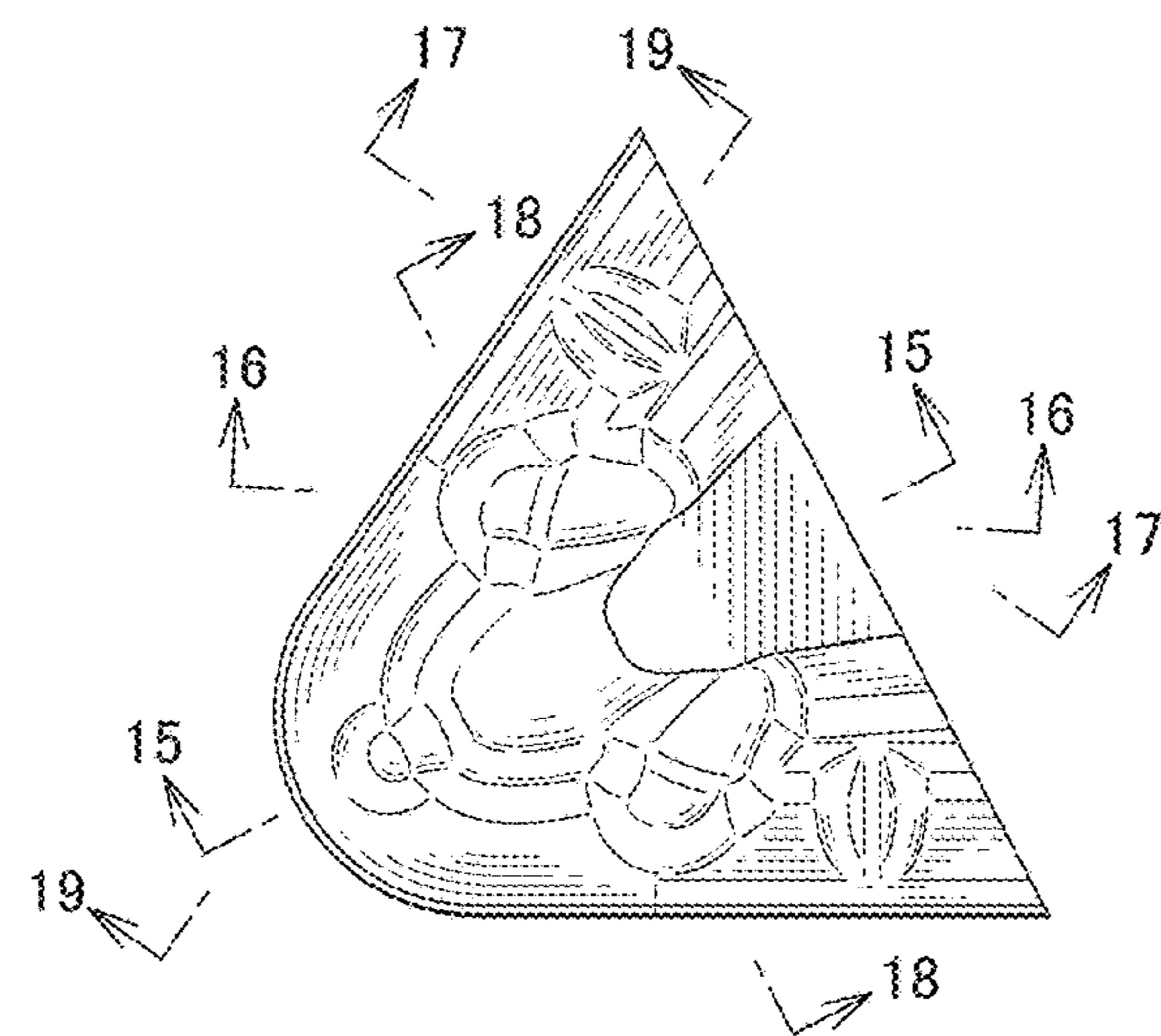


FIG.9

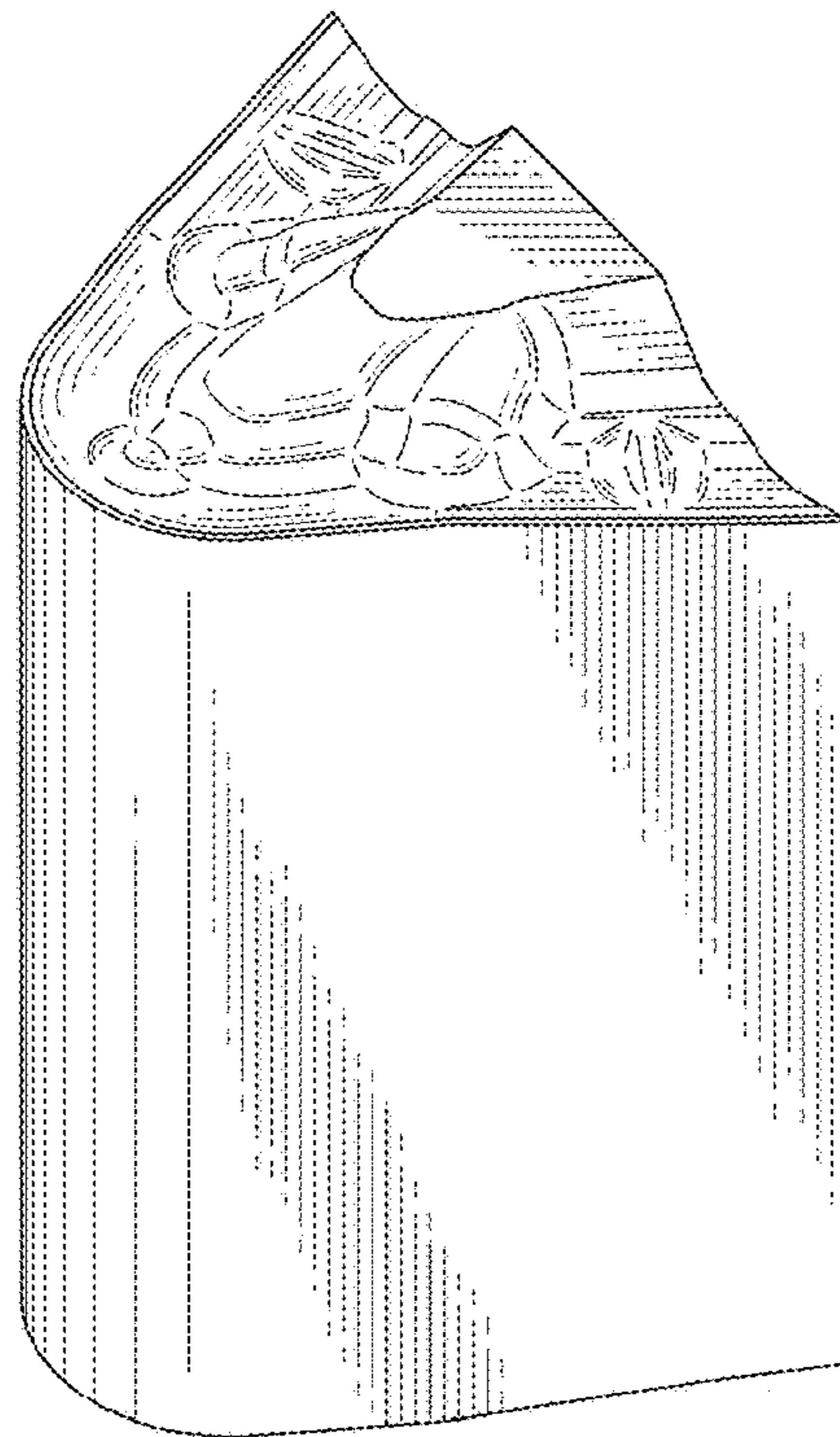


FIG.10

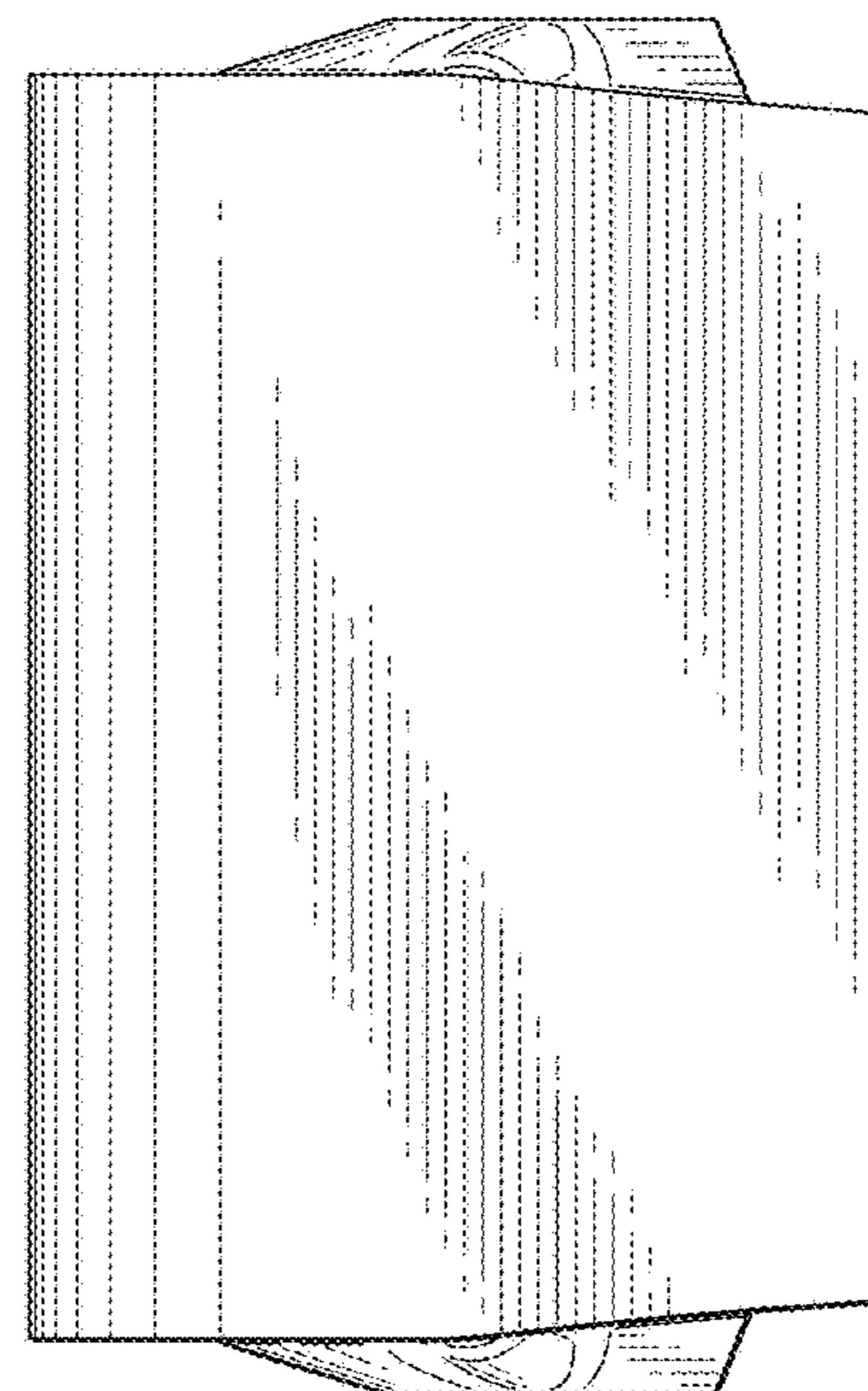


FIG.11

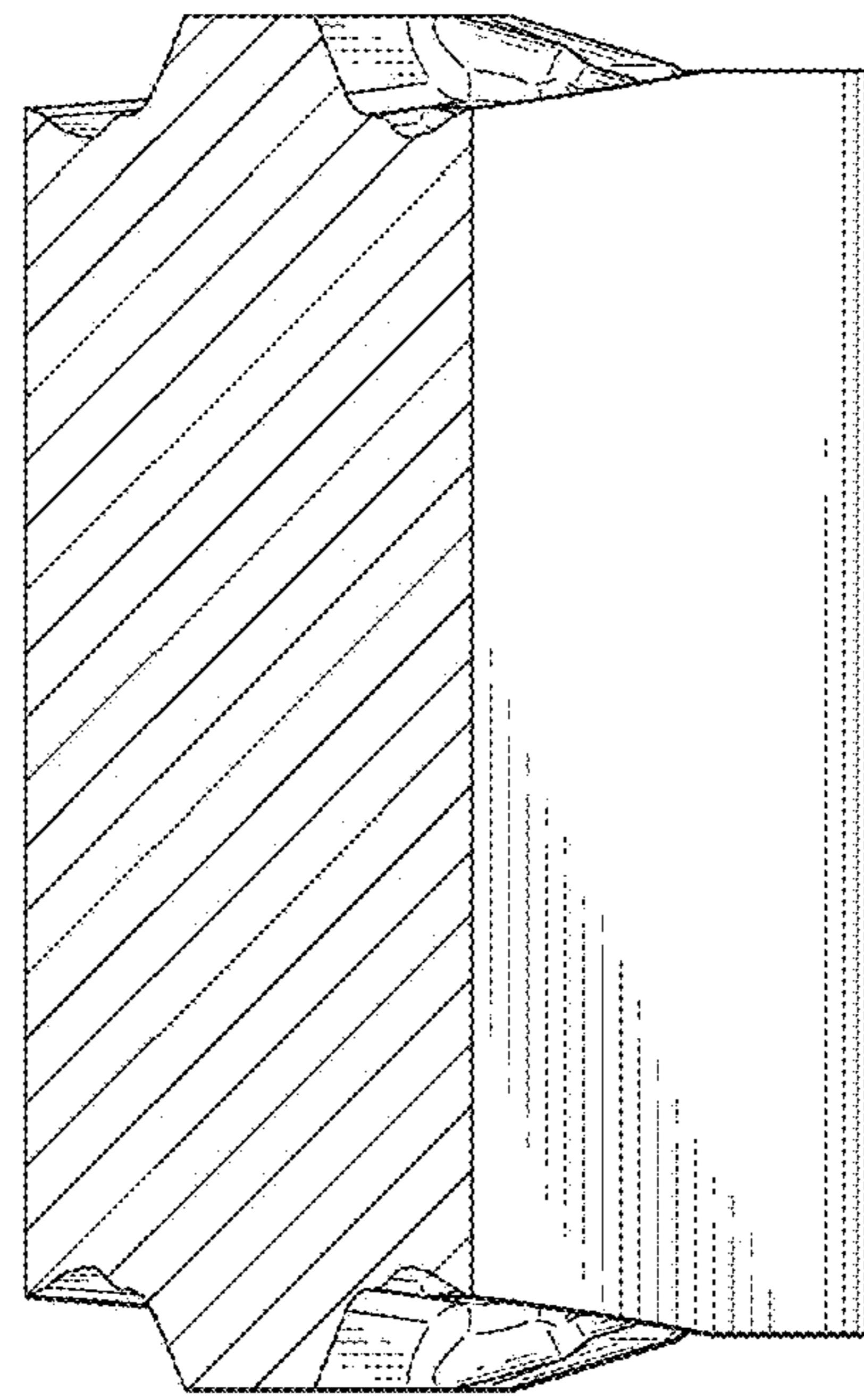


FIG.12

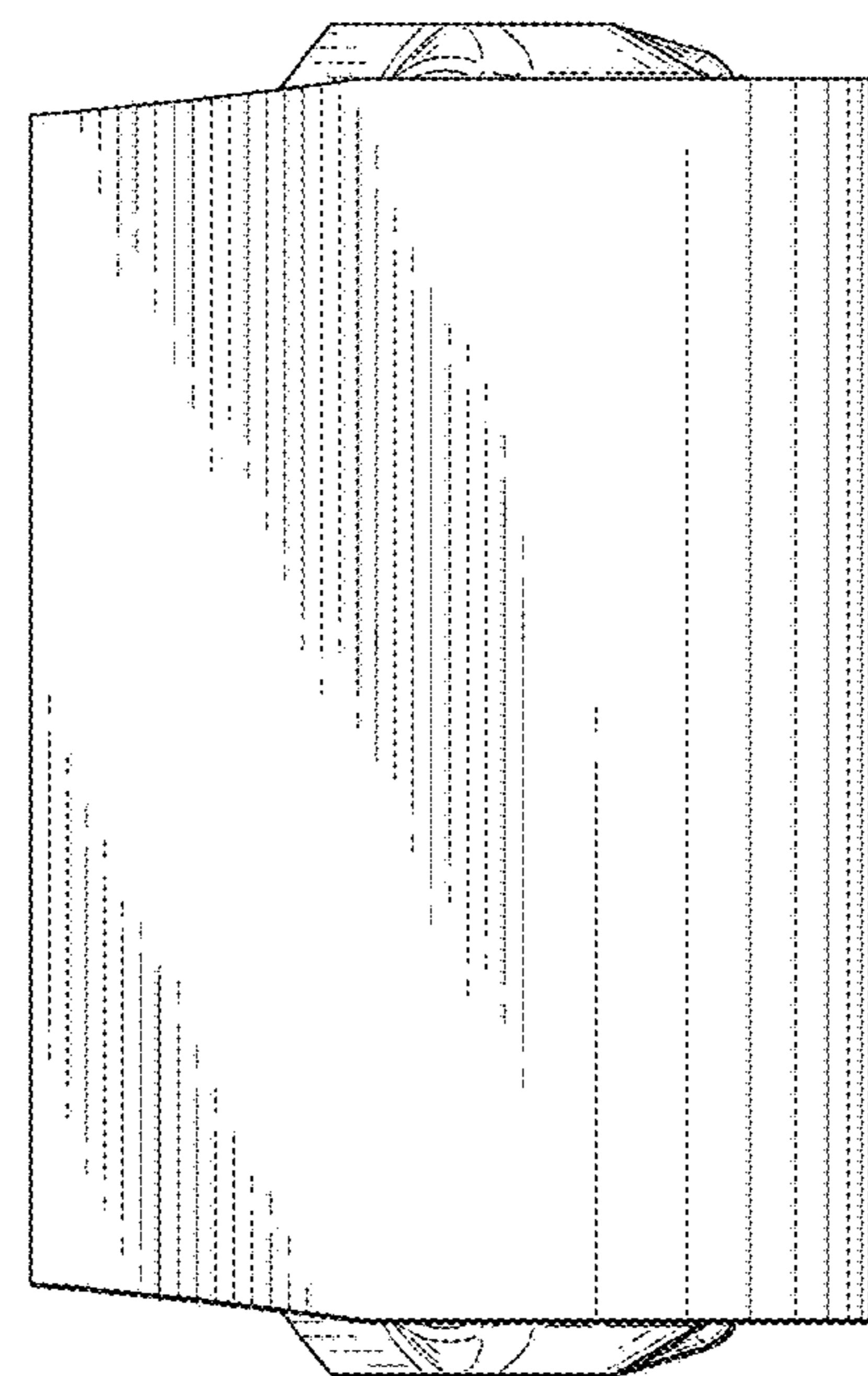


FIG.13

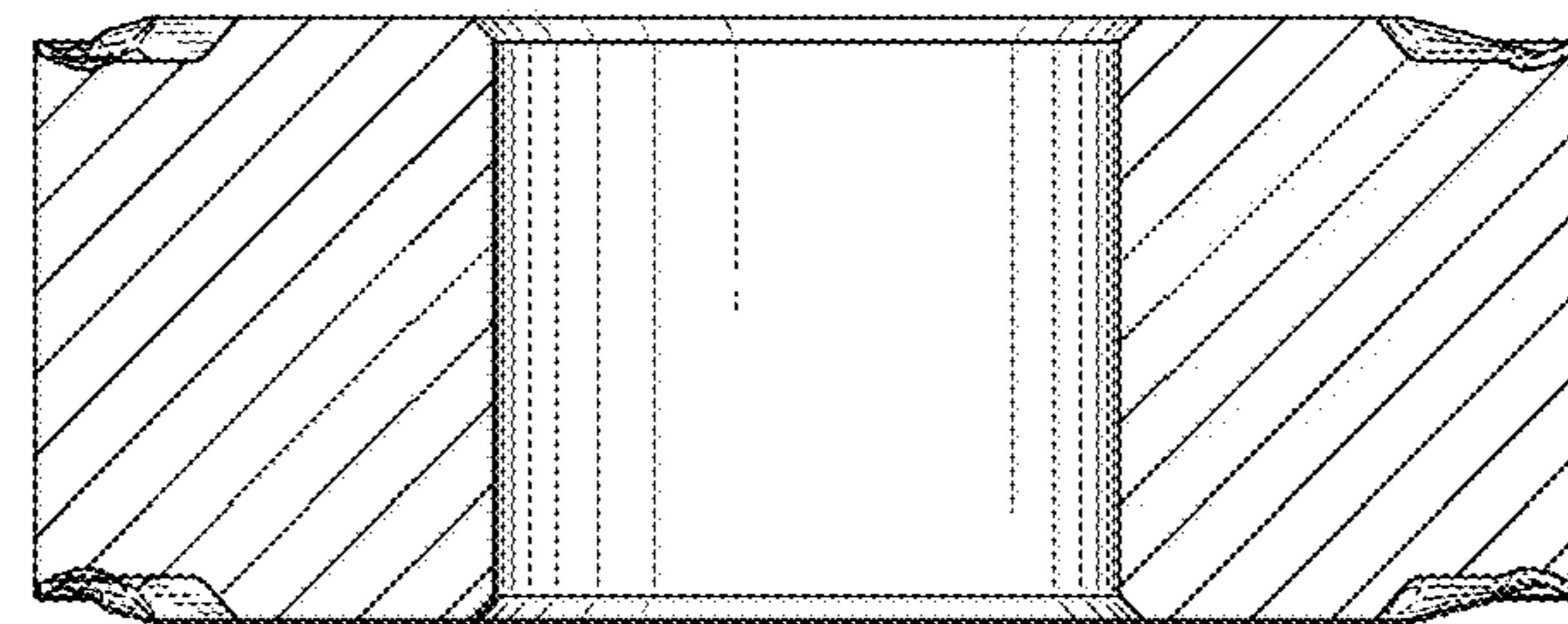


FIG.14

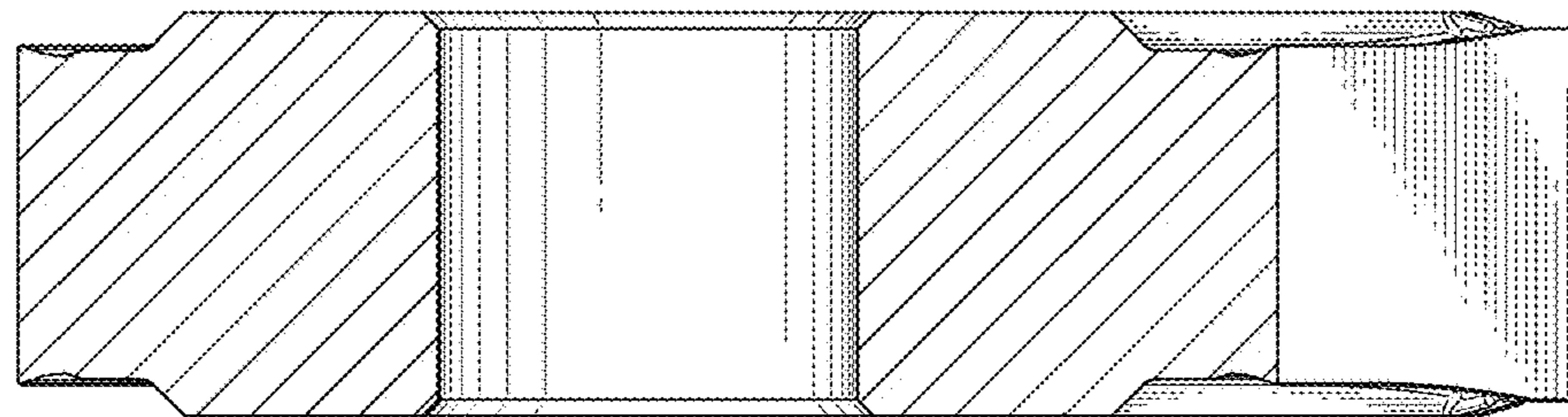


FIG.15

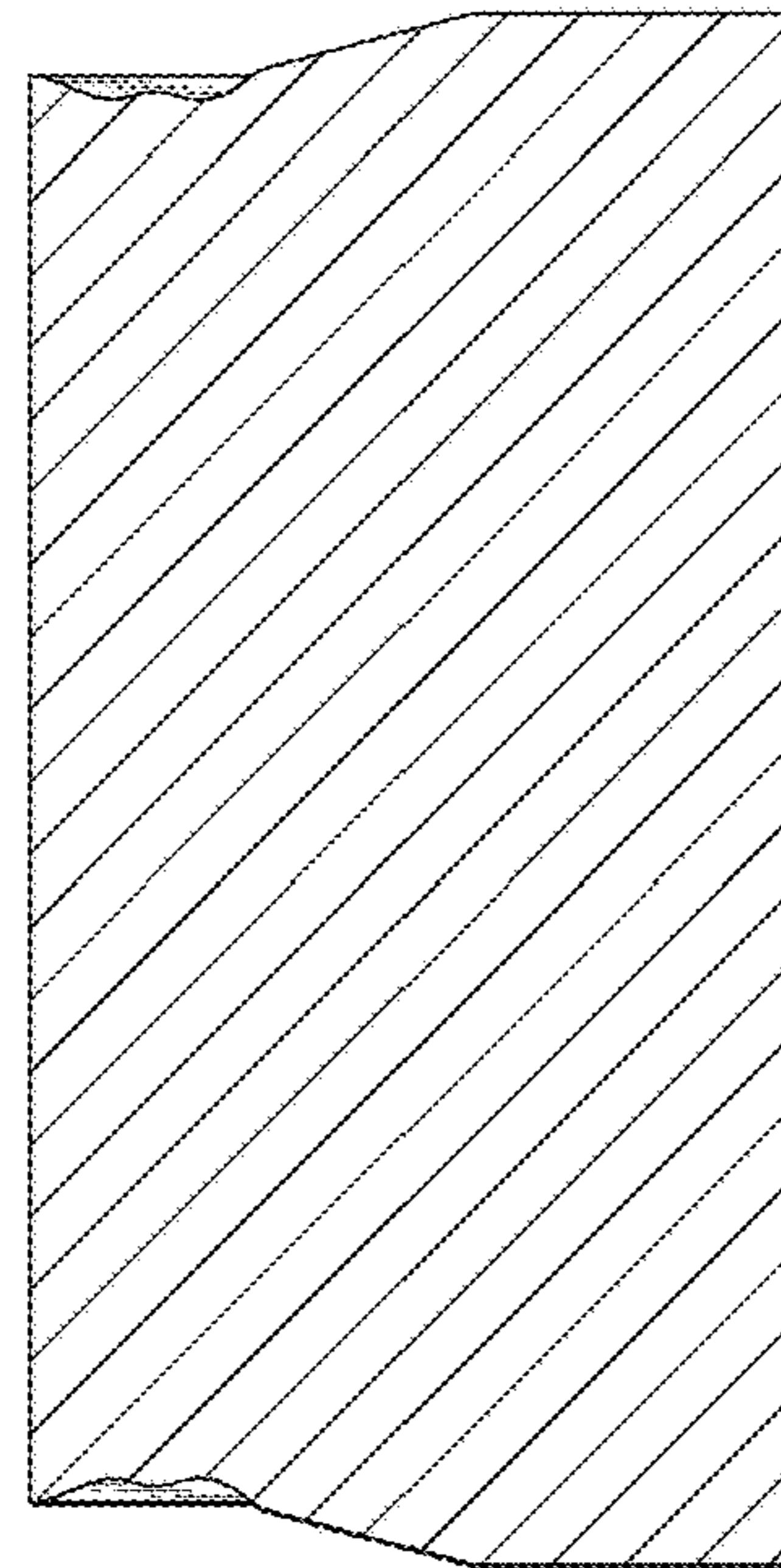


FIG.16

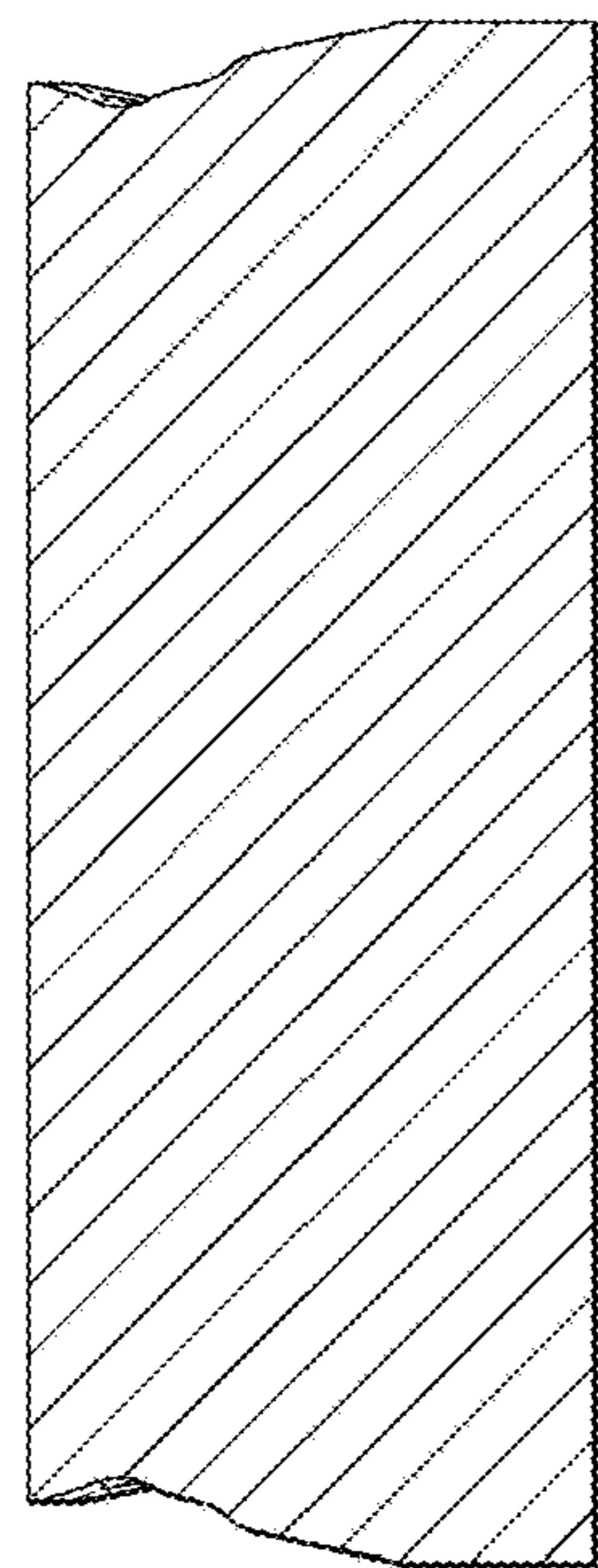


FIG.17

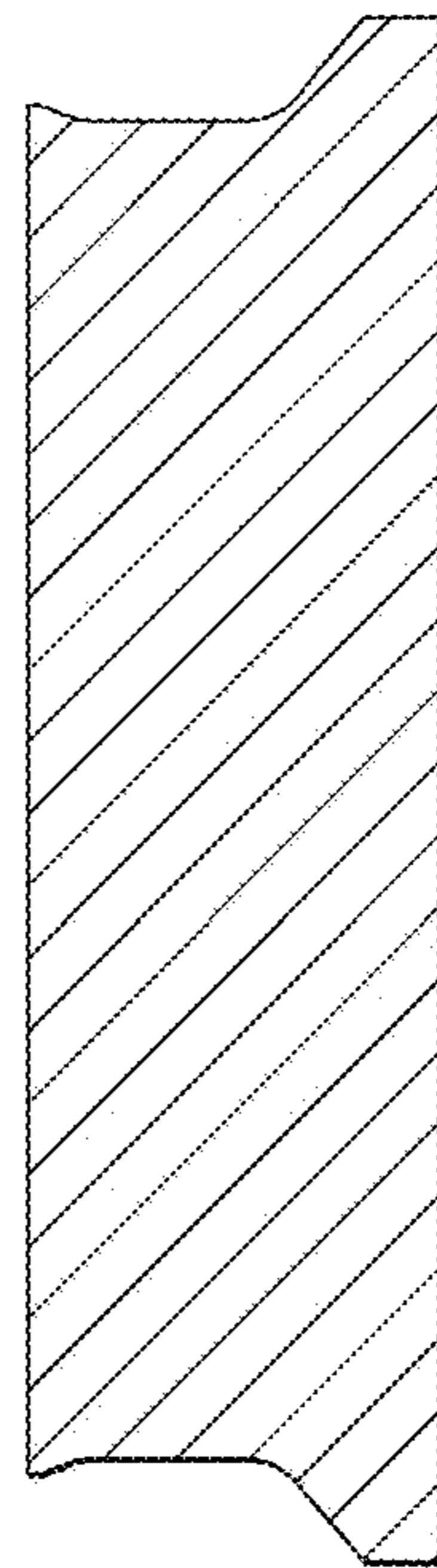


FIG.18

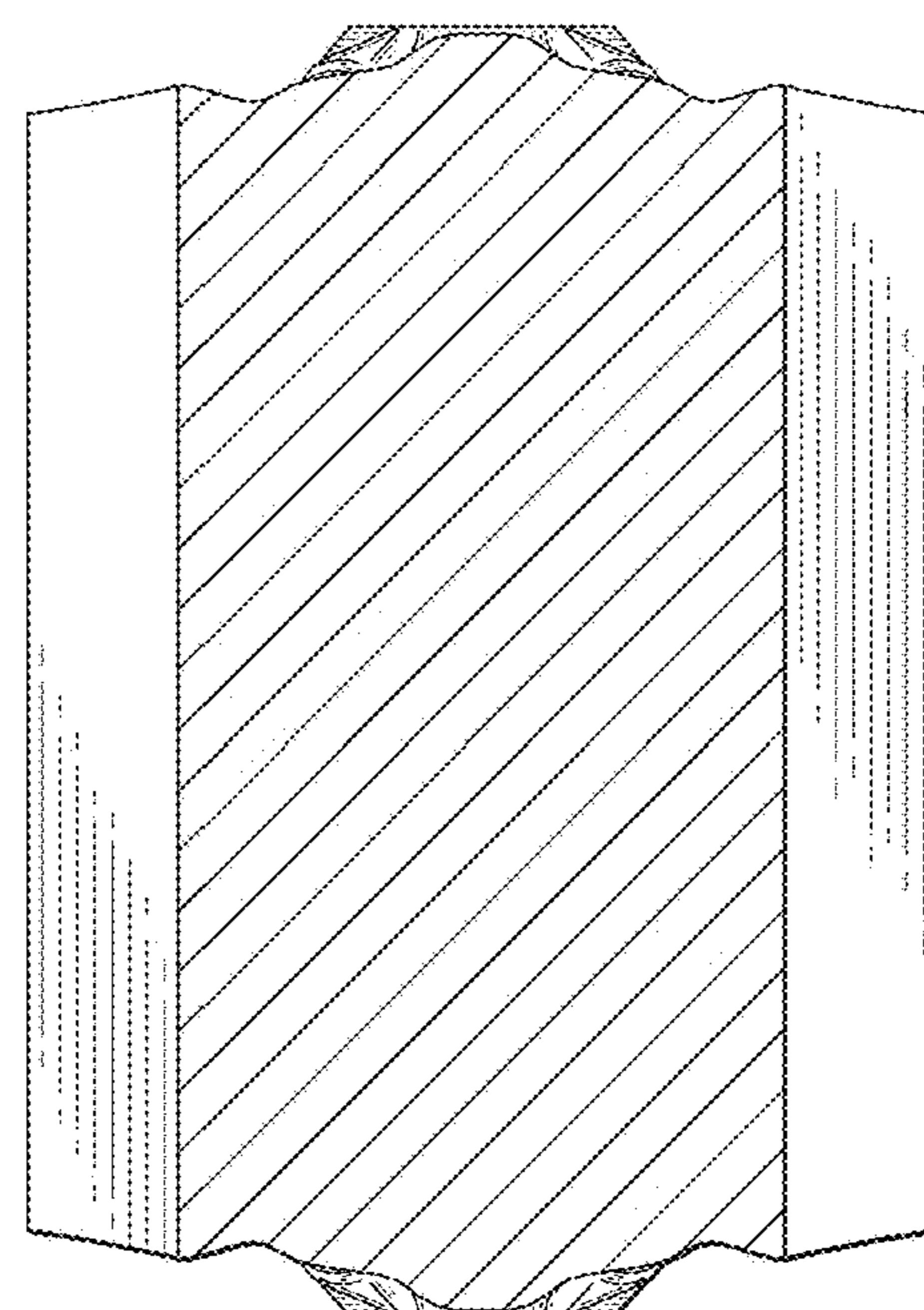


FIG.19

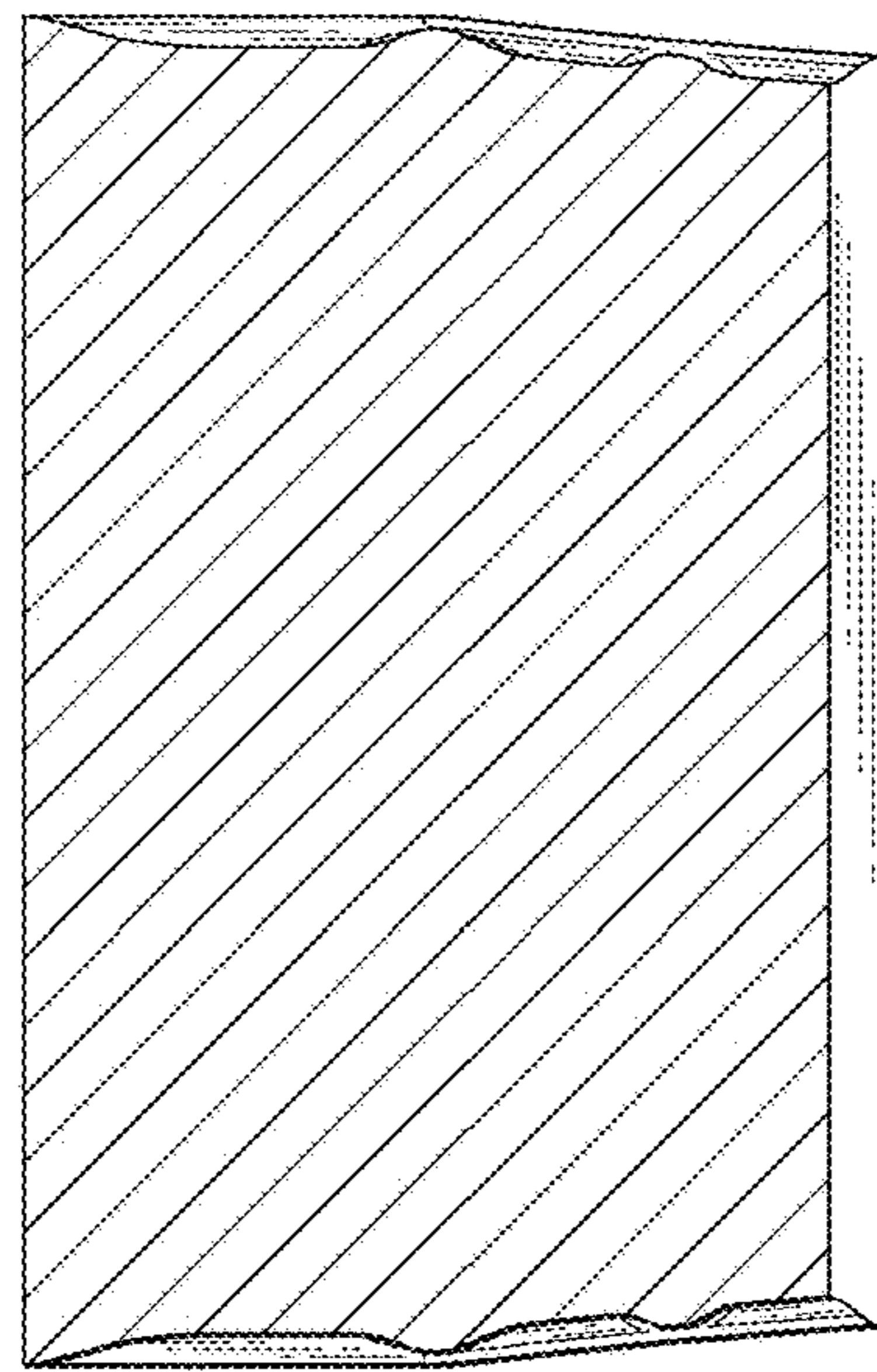


FIG.20

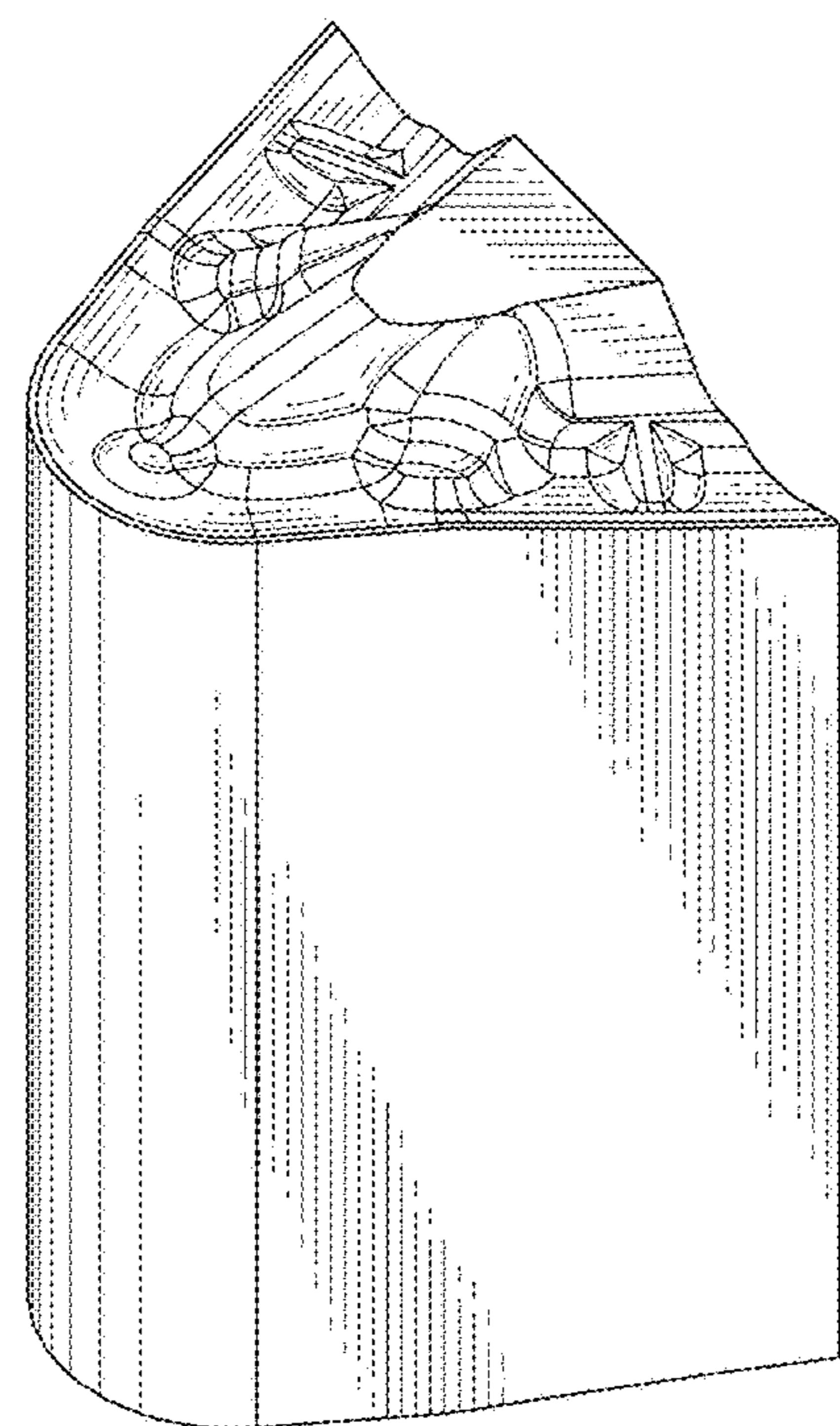


FIG.21

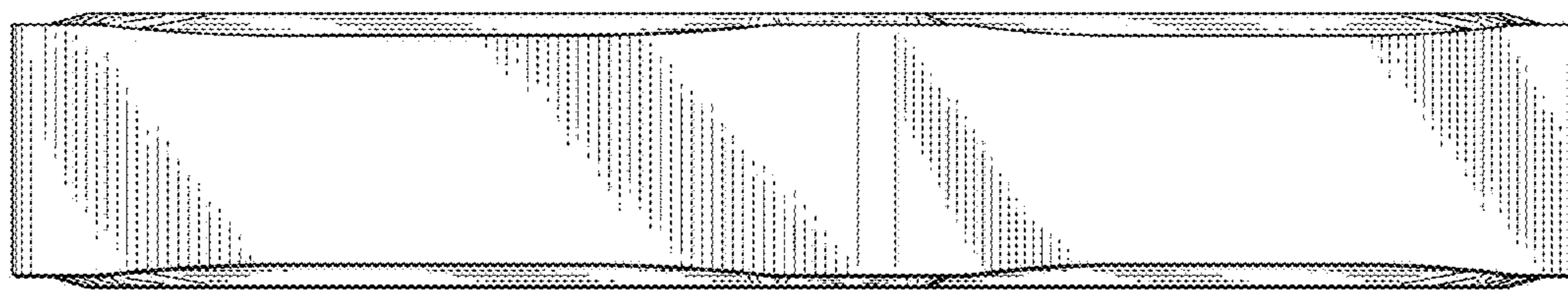


FIG.22

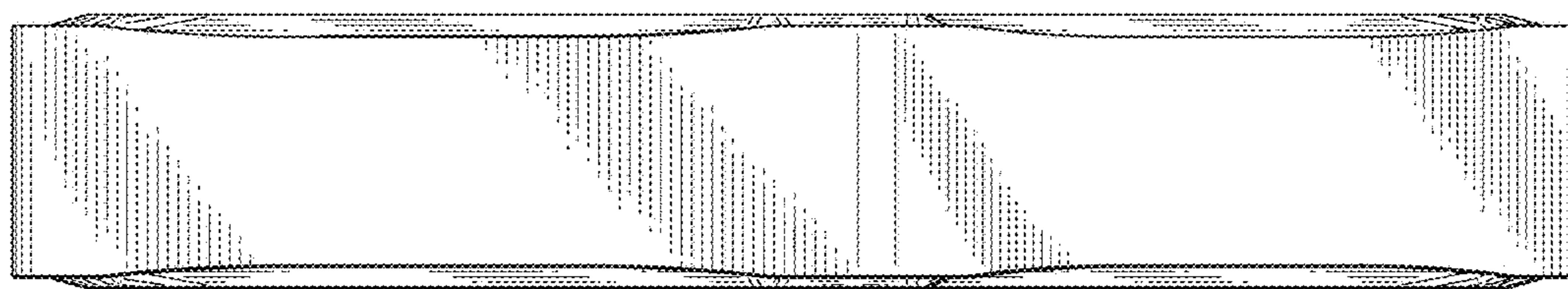


FIG.23

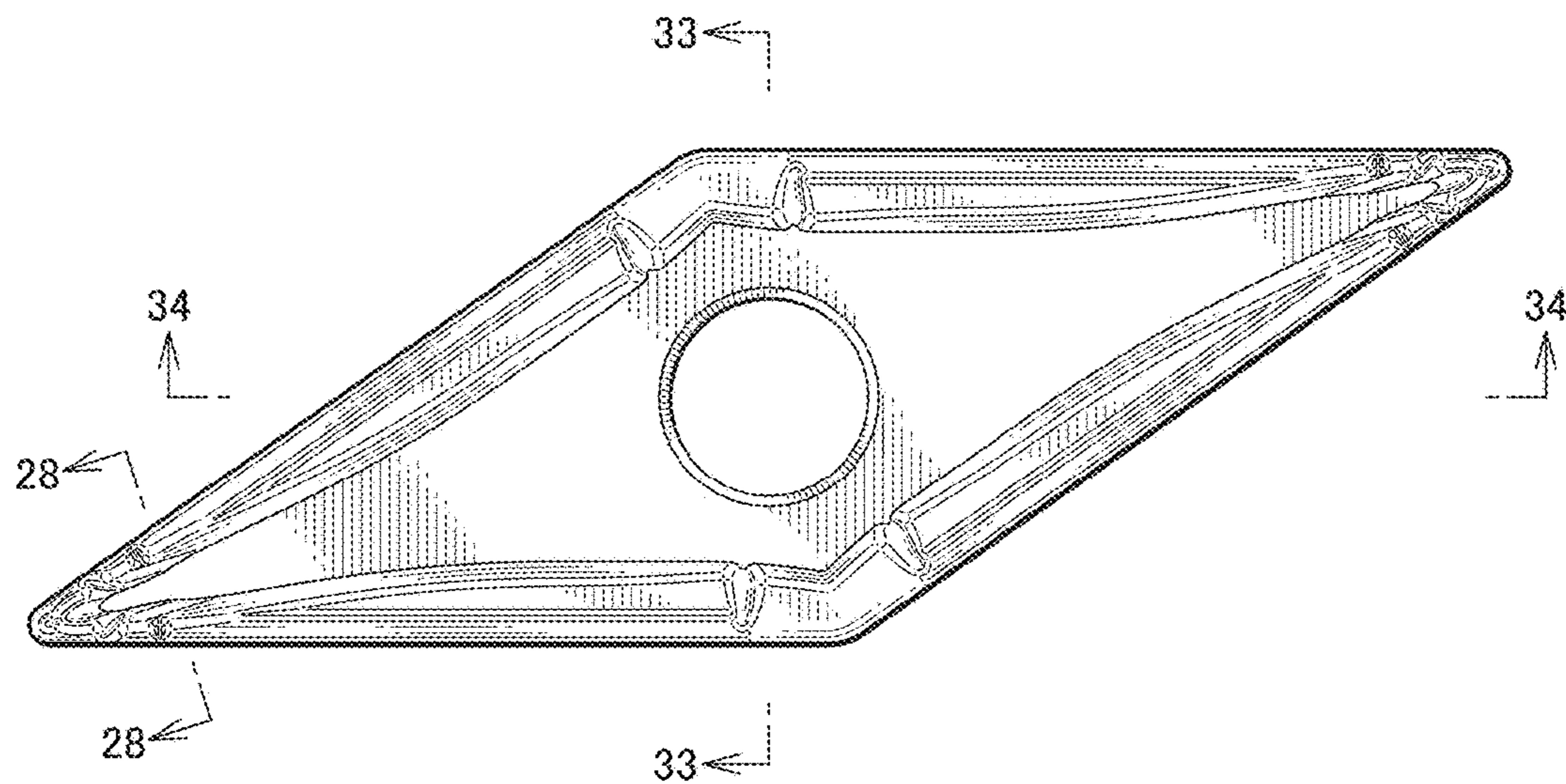


FIG.24

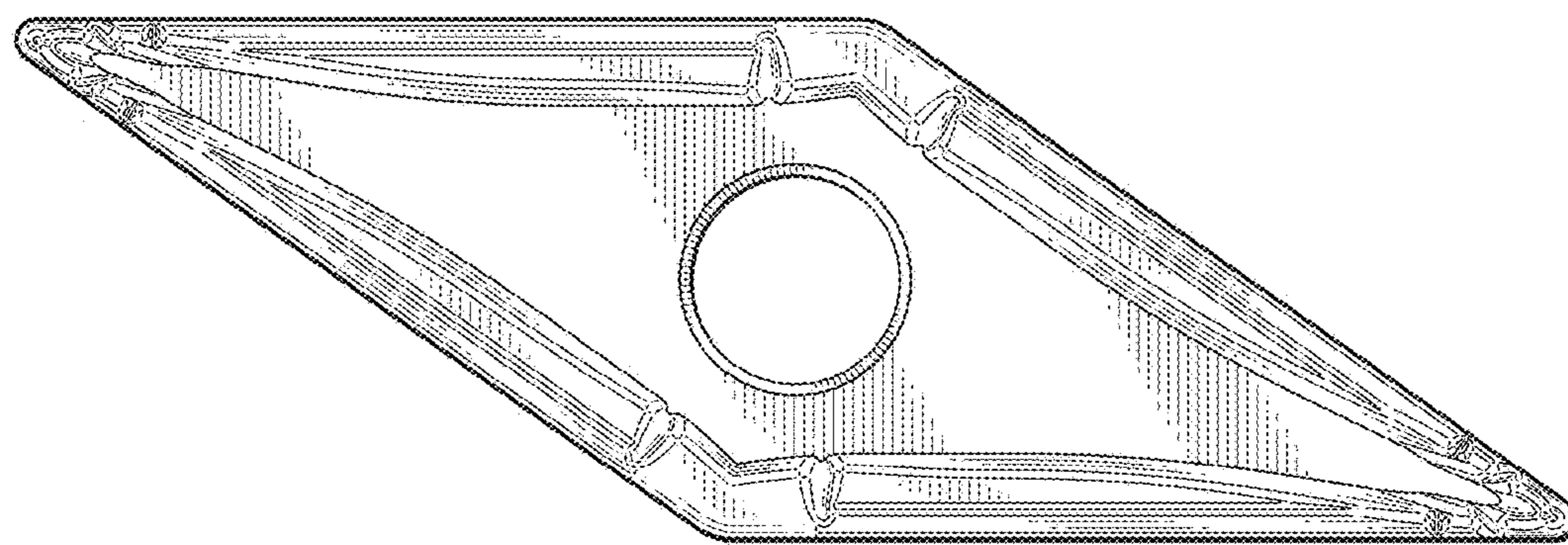


FIG.25

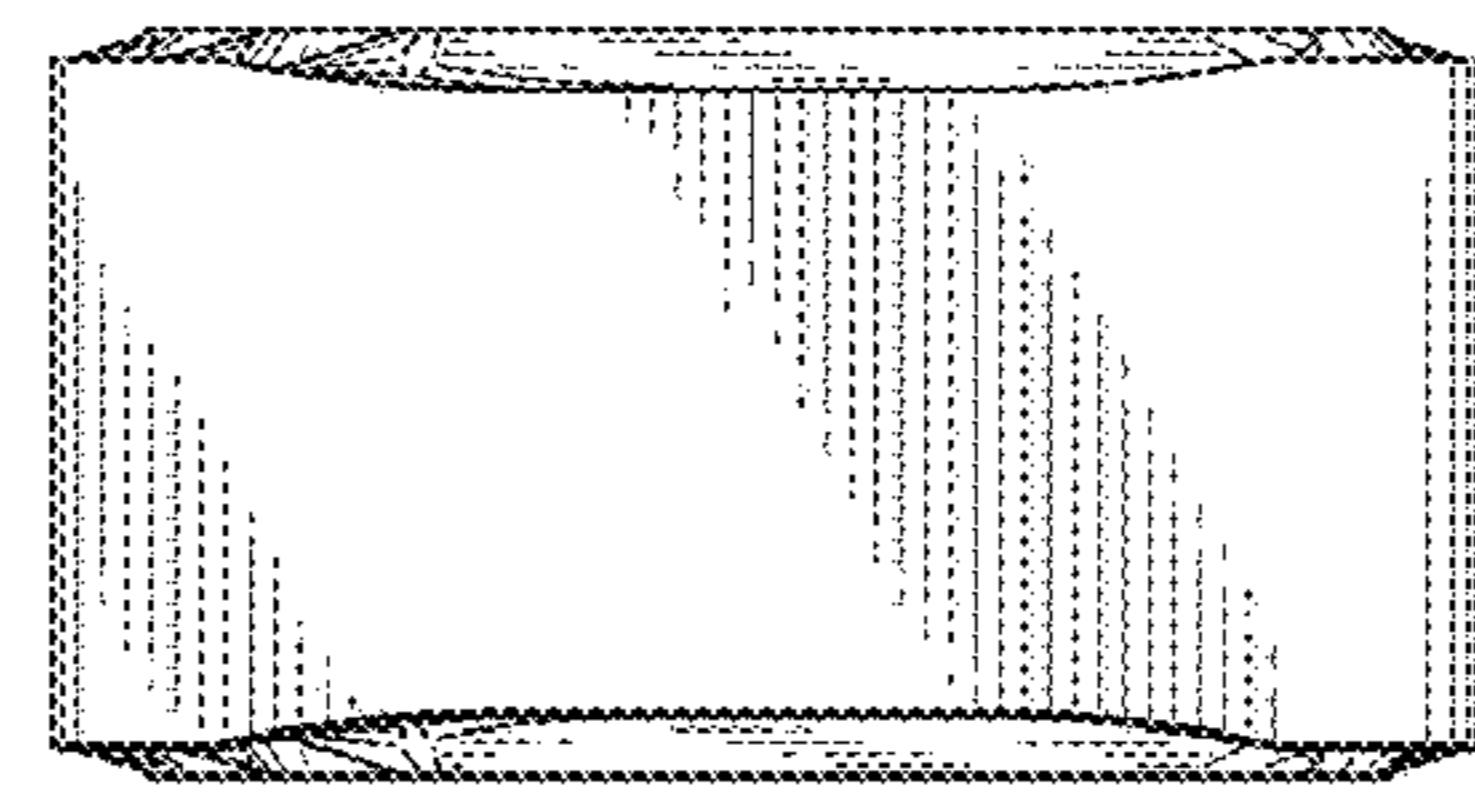


FIG.26

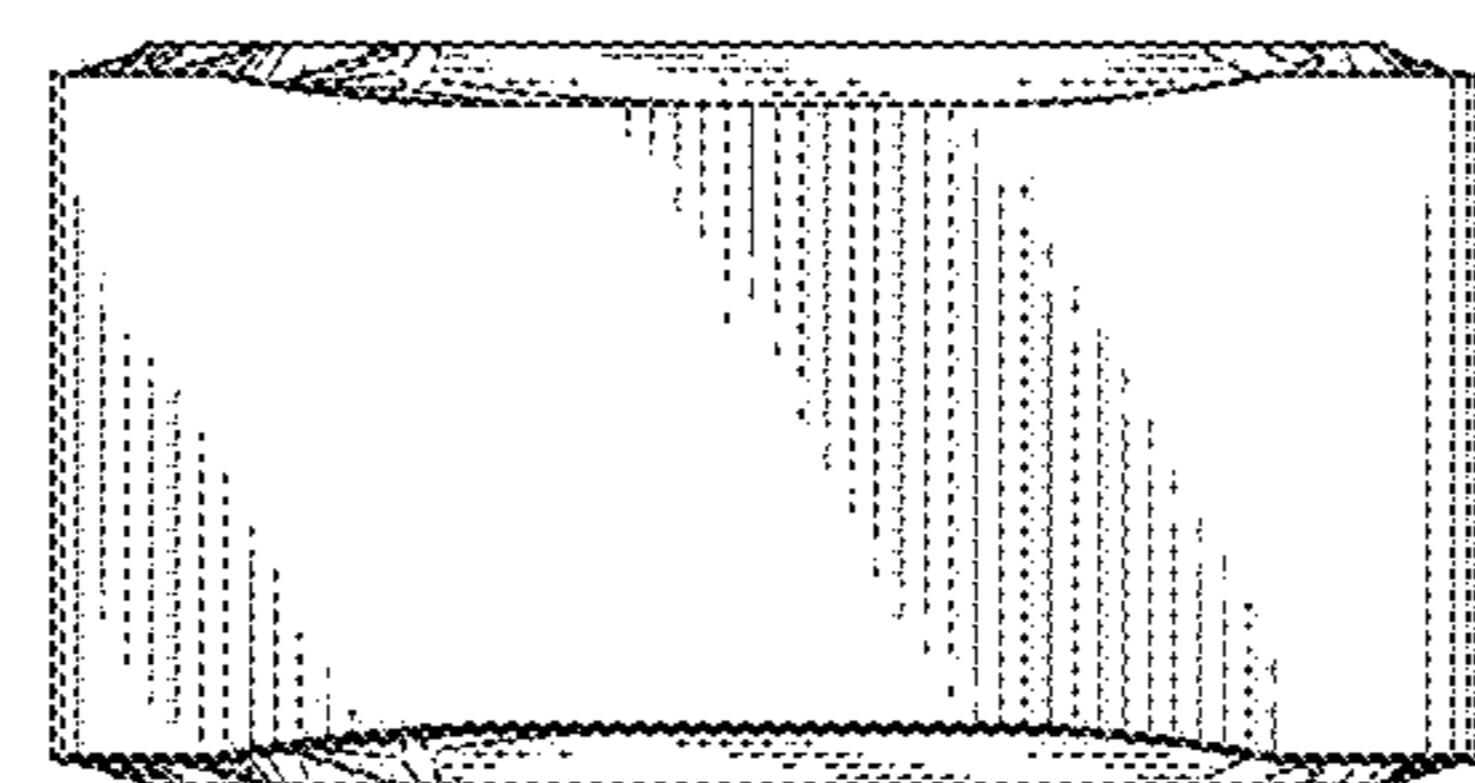


FIG.27

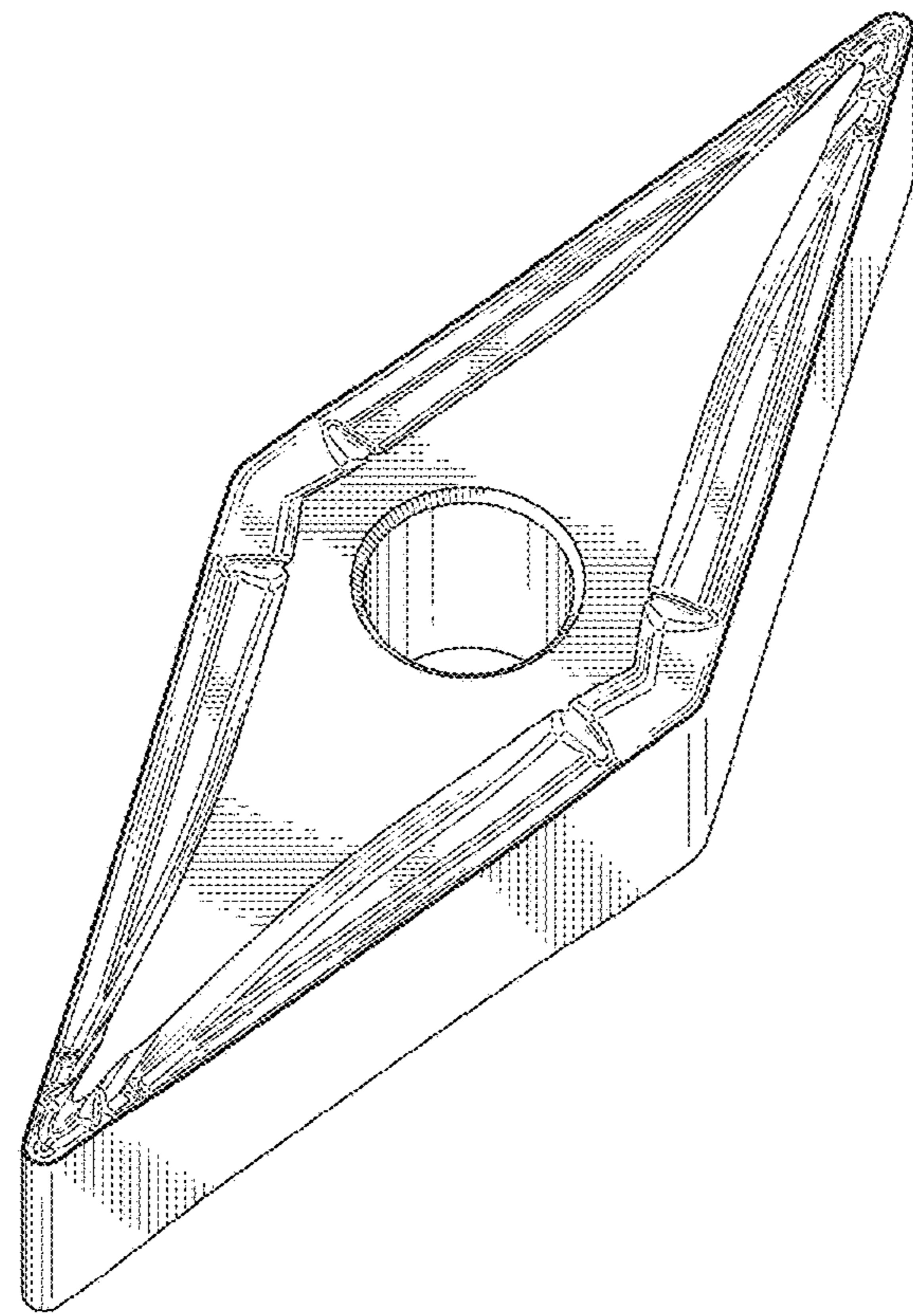


FIG.28

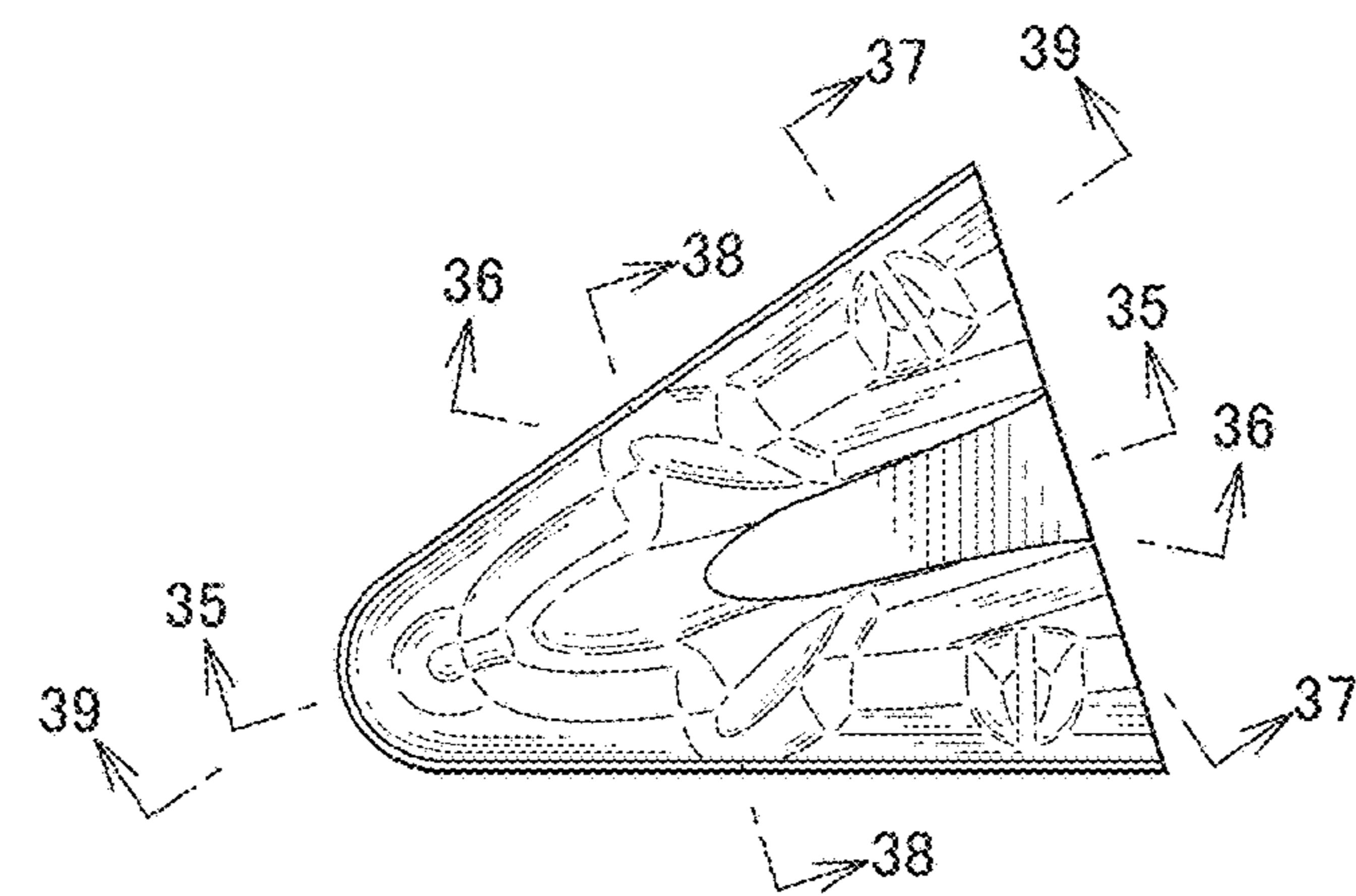


FIG.29

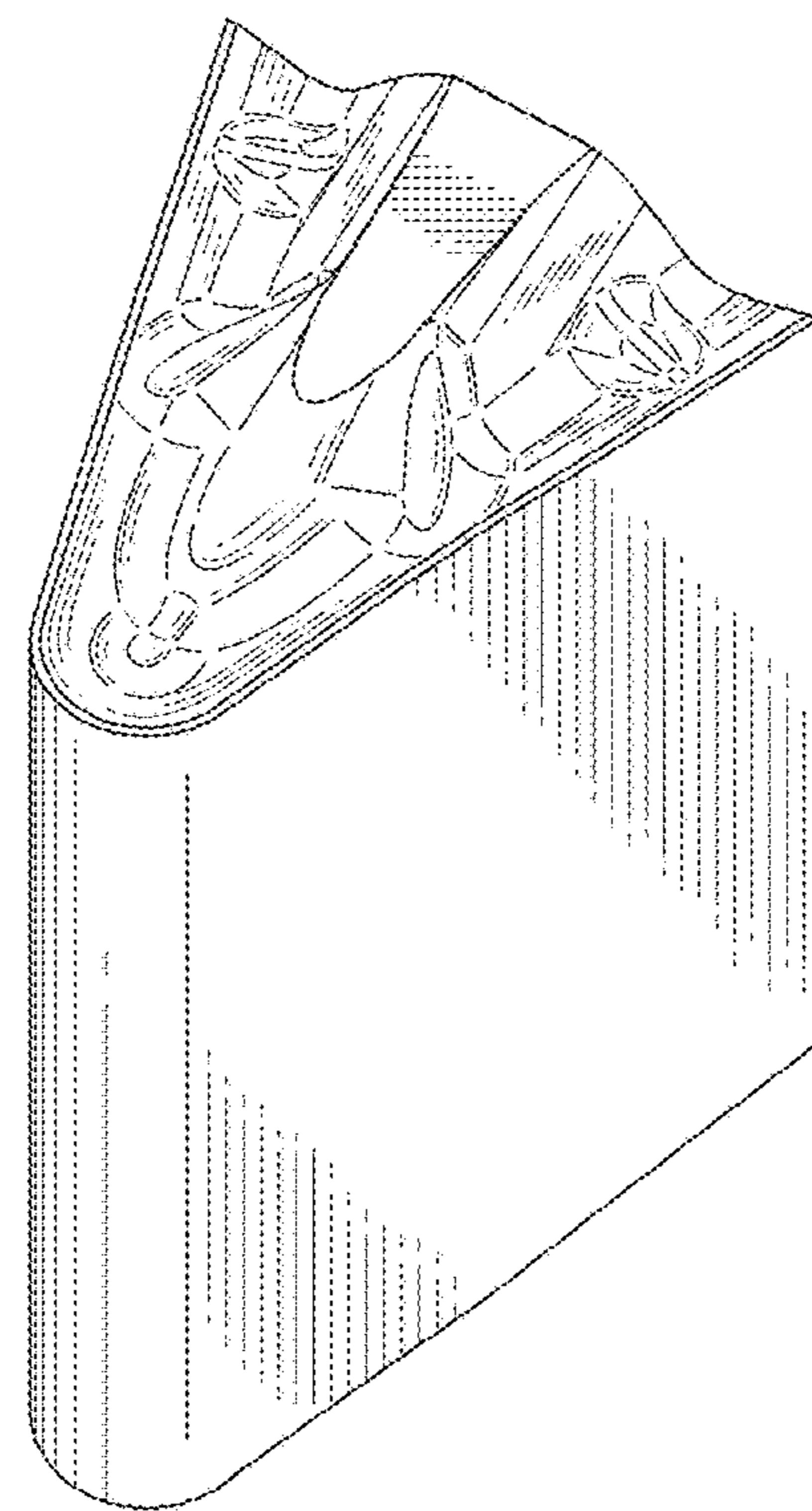


FIG.30



FIG.31

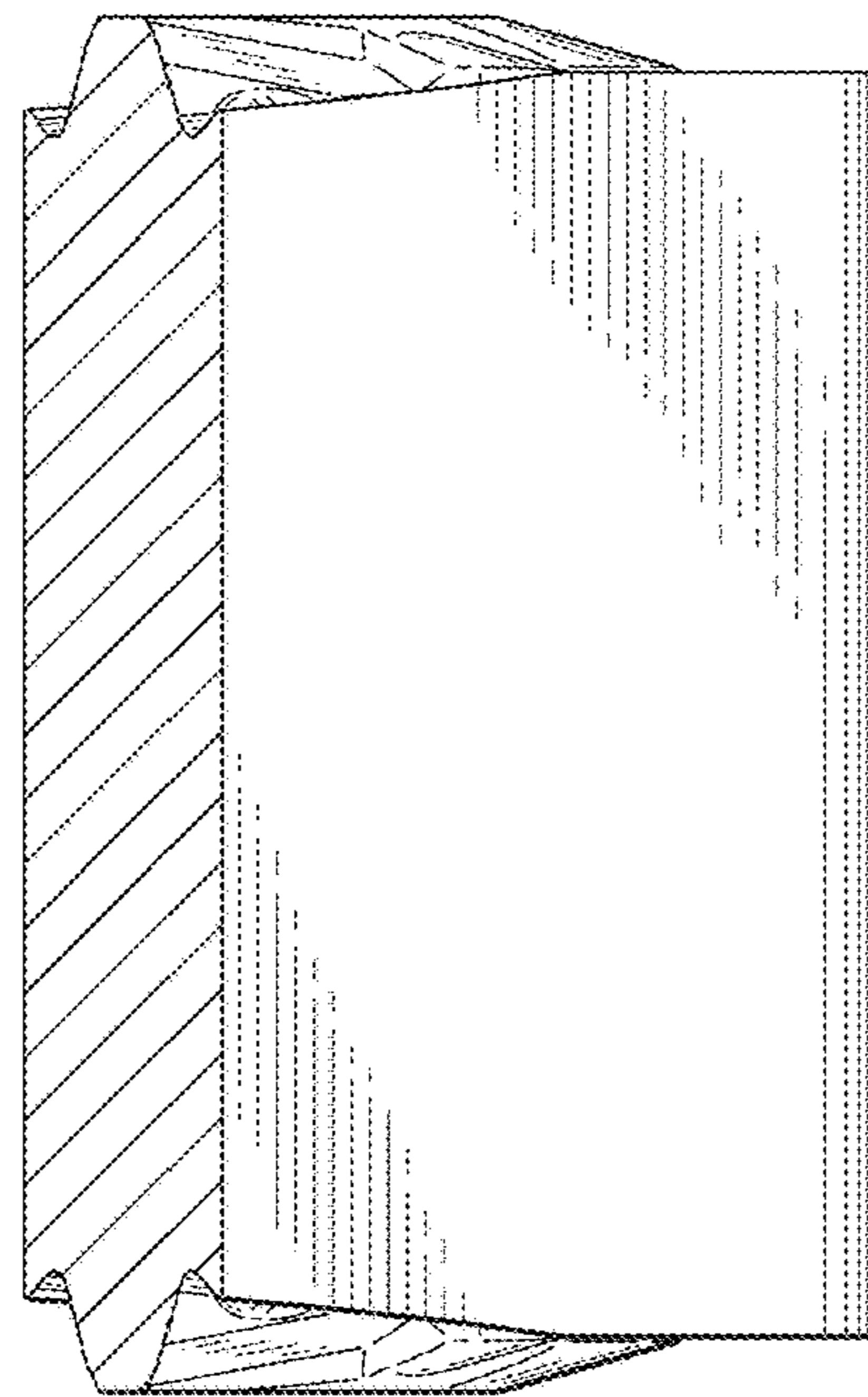


FIG.32

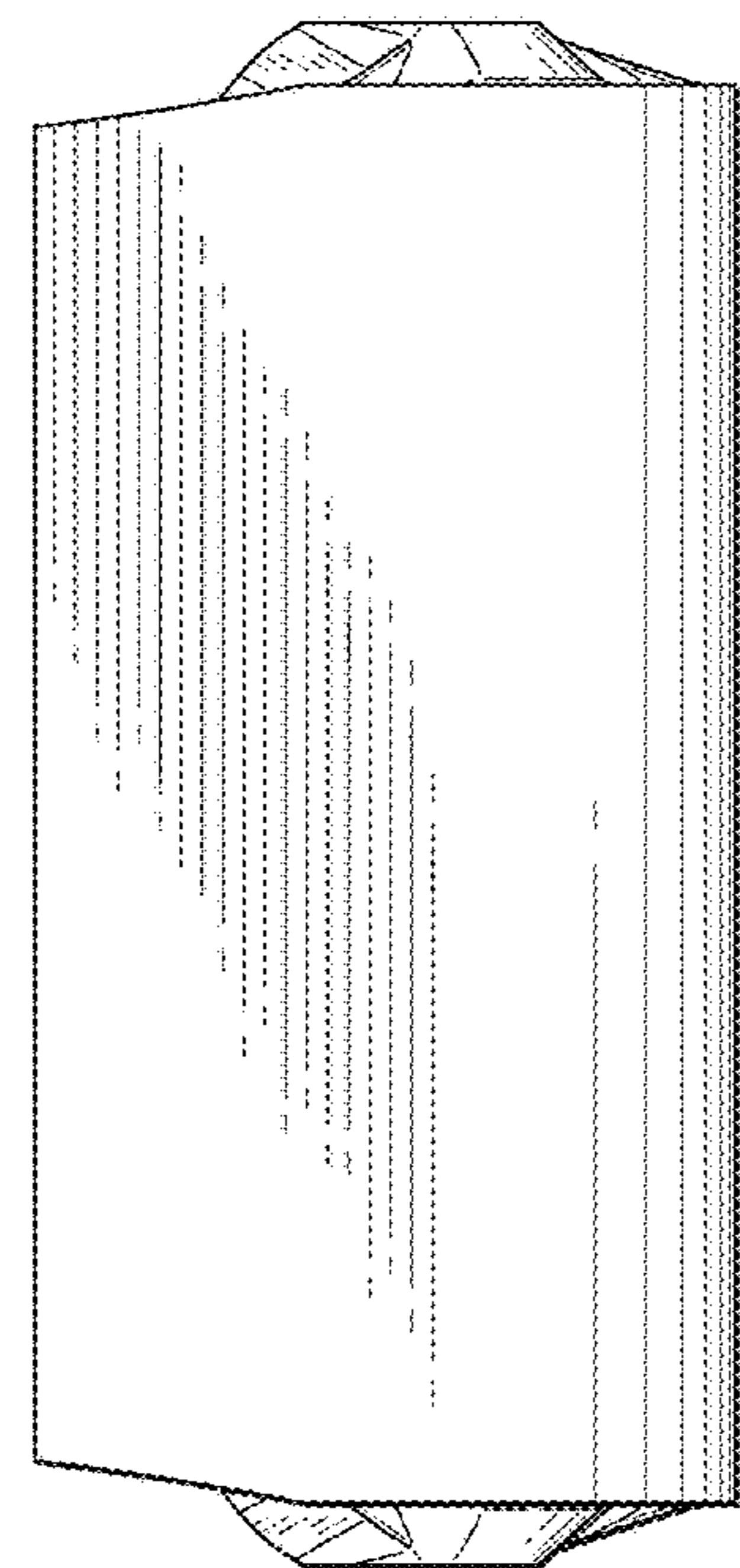


FIG.33

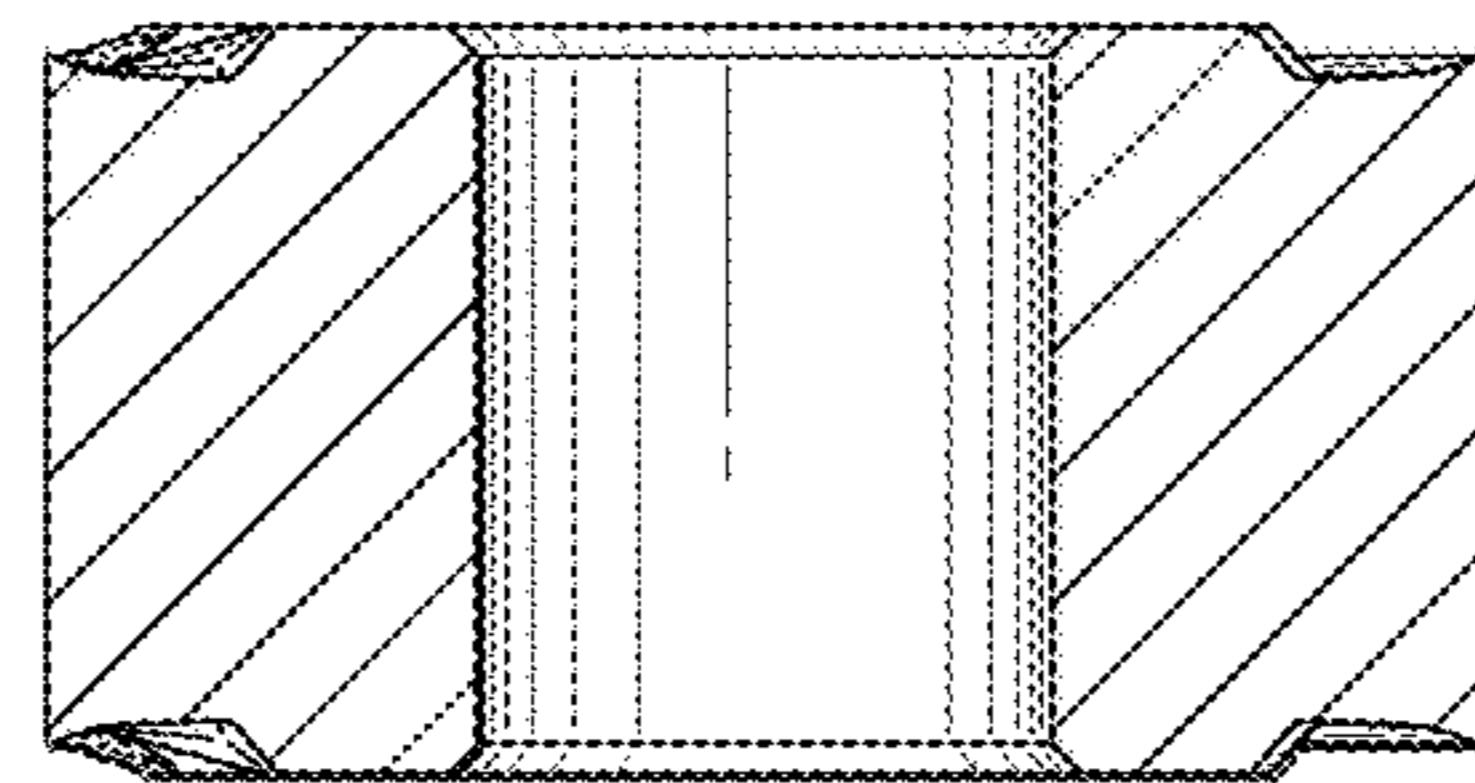


FIG.34

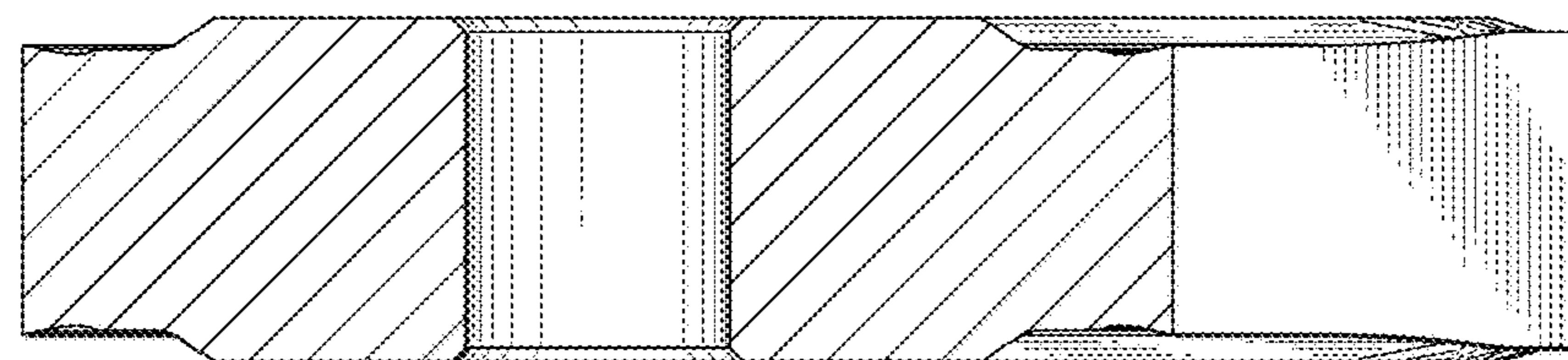


FIG.35

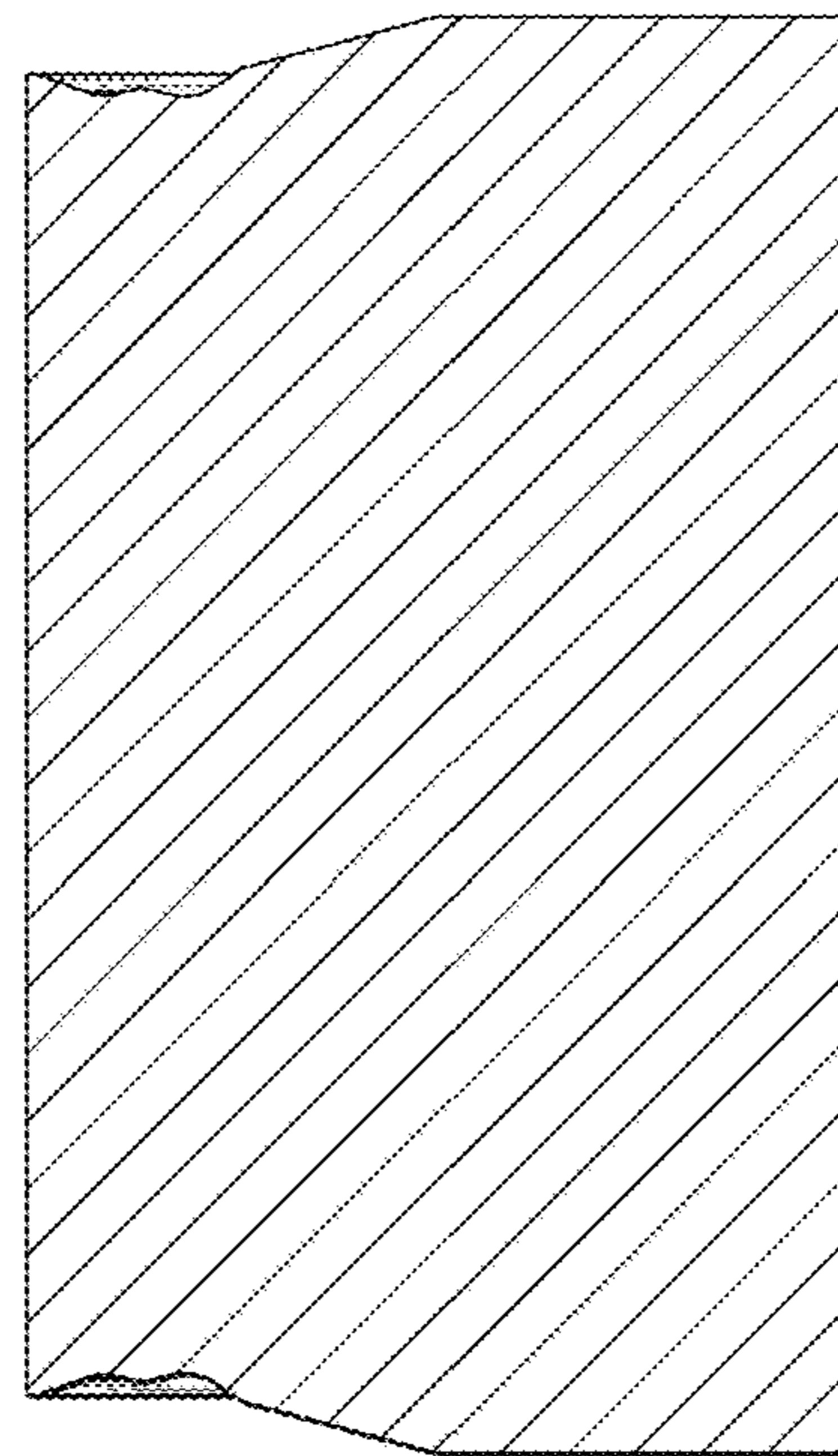


FIG.36

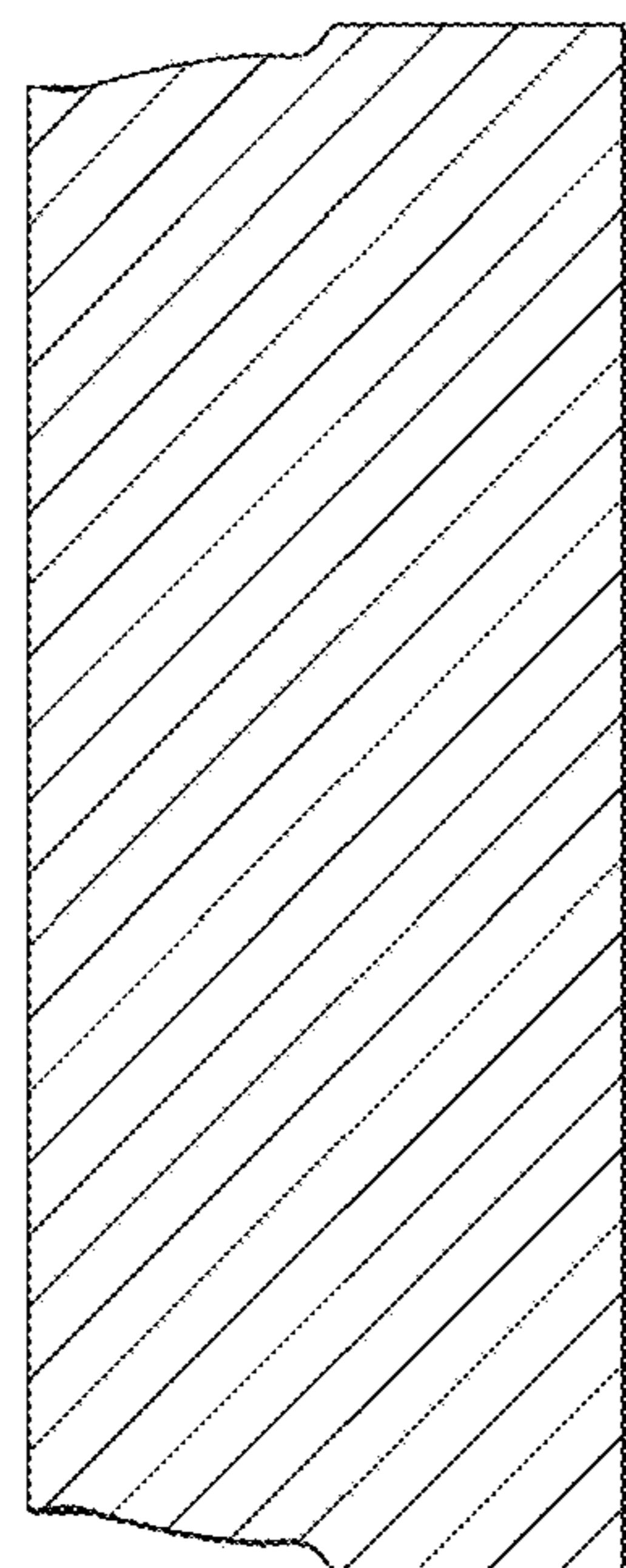


FIG.37

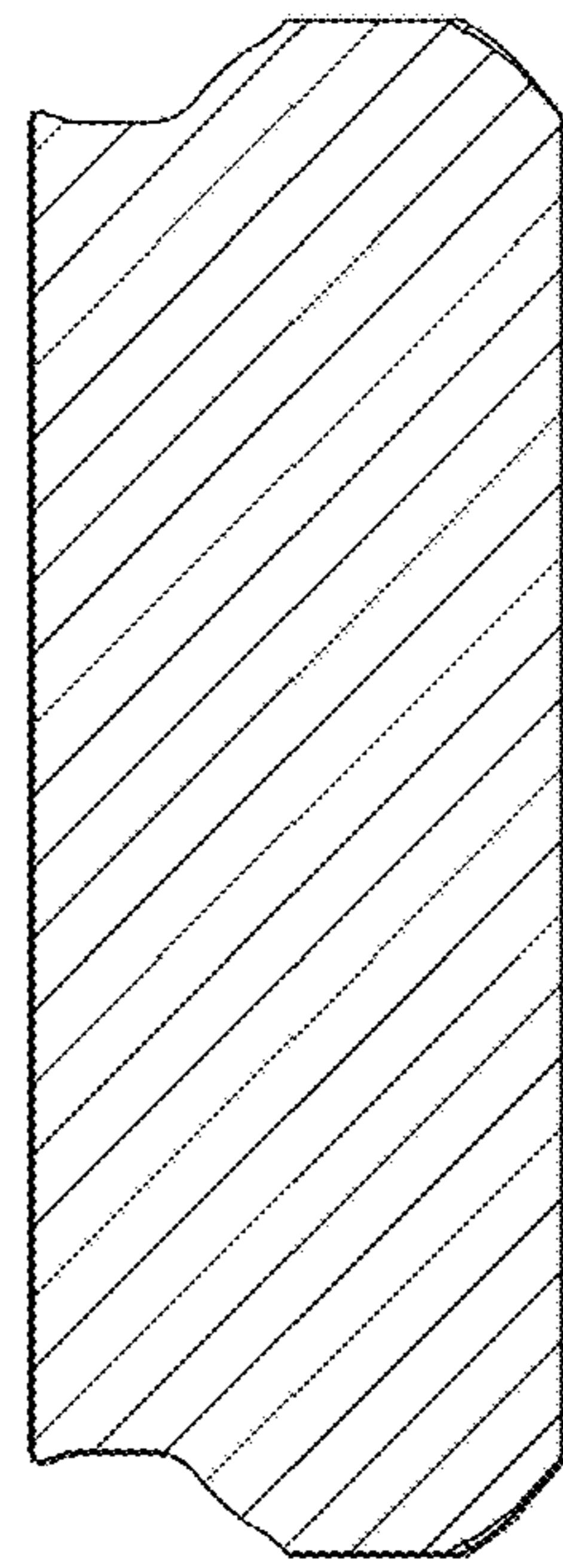


FIG.38

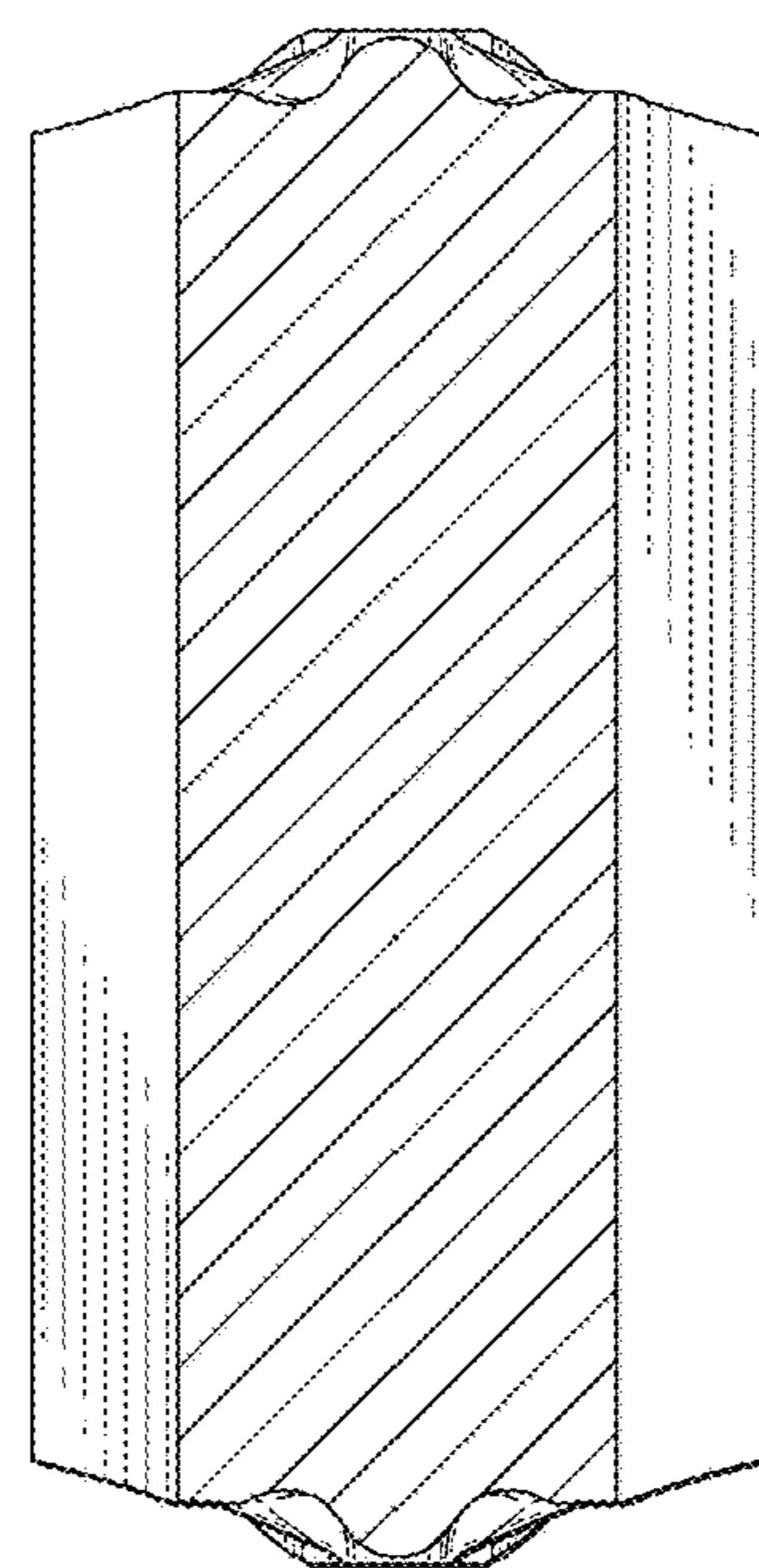


FIG.39

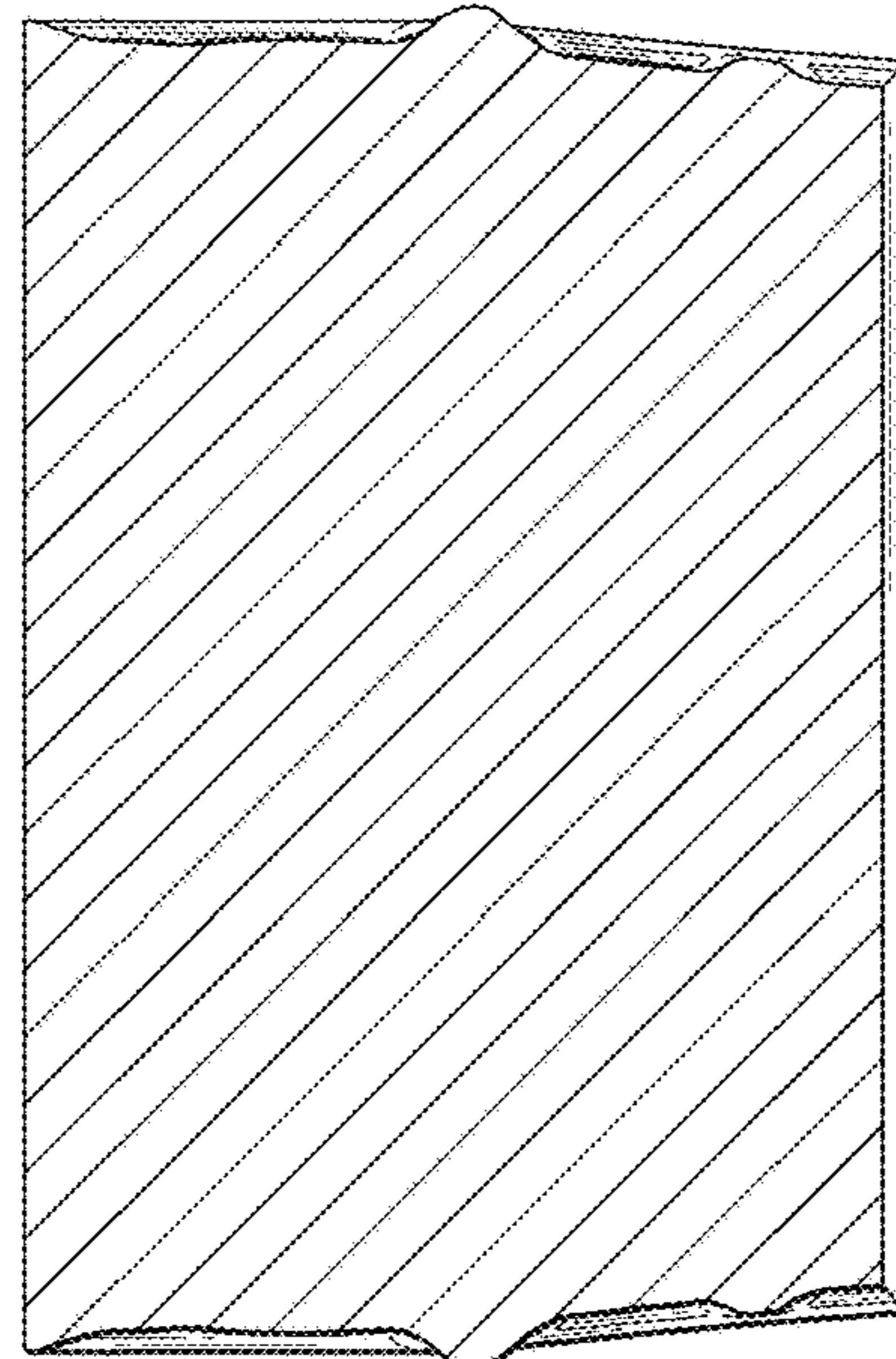


FIG.40

