



US00D781360S

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

(10) **Patent No.:** **US D781,360 S**
(45) **Date of Patent:** **** Mar. 14, 2017**

(54) **CUTTING TOOL**
(71) Applicant: **SUMITOMO ELECTRIC HARDMETAL CORP.**, Itami-shi (JP)
(72) Inventors: **Yasuyuki Kanada**, Itami (JP); **Kunishige Tanaka**, Itami (JP)
(73) Assignee: **SUMITOMO ELECTRIC HARDMETAL CORP.**, Itami-shi (JP)
(**) Term: **15 Years**
(21) Appl. No.: **29/541,198**
(22) Filed: **Oct. 1, 2015**

5,190,417 A * 3/1993 Arai B23C 5/2221
407/114
5,207,538 A * 5/1993 Satran B23C 5/2213
407/113
D342,269 S * 12/1993 Arai D15/139
D347,642 S * 6/1994 Lindberg D15/139
5,333,972 A * 8/1994 Bernadic B23B 27/141
407/113
5,421,679 A * 6/1995 Pantzar B23C 5/202
407/113
5,443,334 A * 8/1995 Pantzar B23C 5/207
407/113
D364,178 S * 11/1995 Hansson D15/139
5,466,097 A * 11/1995 Wallstrom B23C 5/207
407/113
D369,362 S * 4/1996 Pantzar D15/139
(Continued)

(30) **Foreign Application Priority Data**
Apr. 2, 2015 (JP) 2015-007522
(51) **LOC (10) Cl.** **15-09**
(52) **U.S. Cl.**
USPC **D15/139**
(58) **Field of Classification Search**
USPC D8/14, 16, 19, 20, 70, 98; D15/17, 129,
D15/134, 138, 139
CPC B23D 61/003; B23D 61/02; B23D 61/12;
B23D 61/121; B23D 61/123; B23D
61/126; B23D 61/128; B23D 49/14;
D26B 5/001
See application file for complete search history.

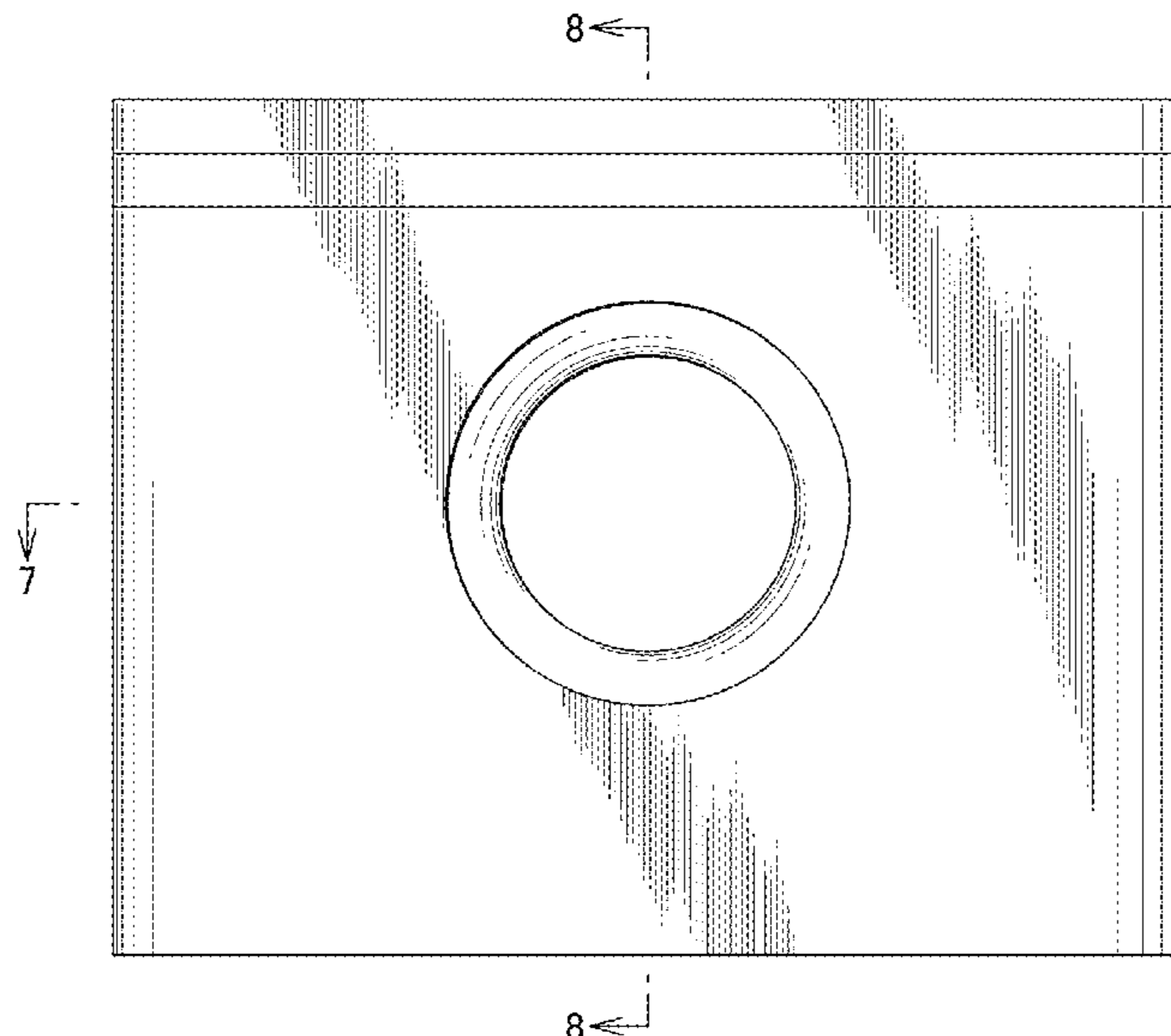
Primary Examiner — Elizabeth Albert
(74) *Attorney, Agent, or Firm* — Venable LLP; Michael
A. Sartori; F. Brock Riggs

(56) **References Cited**
U.S. PATENT DOCUMENTS
3,226,797 A * 1/1966 Hertel B23B 27/1614
407/101
4,597,695 A * 7/1986 Johnson B23C 5/207
407/113
5,145,295 A * 9/1992 Satran B23C 5/2213
407/113

(57) **CLAIM**
The ornamental design for a cutting tool, as shown and
described.

DESCRIPTION
FIG. 1 is a front view of a 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 cross-sectional view taken along line 7-7 of FIG.
1;
FIG. 8 is a cross-sectional view taken along line 8-8 of FIG.
1;
FIG. 9 is a first perspective view thereof; and,
FIG. 10 is a second perspective view thereof.

1 Claim, 5 Drawing Sheets



US D781,360 S

Page 2

(56)

References Cited

U.S. PATENT DOCUMENTS

5,586,843	A *	12/1996	Minicozzi	.....	B23C 5/109	407/113
5,791,832	A *	8/1998	Yamayose	.....	B23C 5/109	407/113
5,800,100	A *	9/1998	Krenzer	.....	B23B 27/145	407/113
5,803,674	A *	9/1998	Satran	.....	B23B 27/143	407/113
5,947,650	A *	9/1999	Satran	.....	B23C 5/00	407/113
6,171,031	B1 *	1/2001	LaFlamme	.....	B23B 27/141	407/113
6,227,772	B1 *	5/2001	Heinloth	.....	B23C 5/202	407/113
6,764,254	B2 *	7/2004	Emoto	.....	B23C 5/08	407/113
D497,923	S *	11/2004	Waggle	.....	D15/139	
6,939,090	B1 *	9/2005	Nagaya	.....	B23C 5/109	407/113
7,008,146	B2 *	3/2006	DeRoche	.....	B23C 5/109	407/114
7,229,236	B2 *	6/2007	Craig	.....	B23C 5/109	407/113
7,261,497	B2 *	8/2007	Maeda	.....	B23C 5/109	407/113
D572,279	S *	7/2008	Takanashi	.....	D15/139	
D585,467	S *	1/2009	Takanashi	.....	D15/139	
7,572,086	B2 *	8/2009	Nagaya	.....	B23C 5/109	407/113
7,572,087	B2 *	8/2009	Nagaya	.....	B23C 5/109	407/113
D637,214	S *	5/2011	Saito	.....	D15/139	
D638,041	S *	5/2011	Saito	.....	D15/139	
9,108,254	B2 *	8/2015	Lee	.....	B23C 3/06	
9,144,850	B2 *	9/2015	Kurokawa	.....	B23C 5/109	
9,370,825	B2 *	6/2016	Ramesh	.....	B23B 51/048	

* cited by examiner

FIG.1

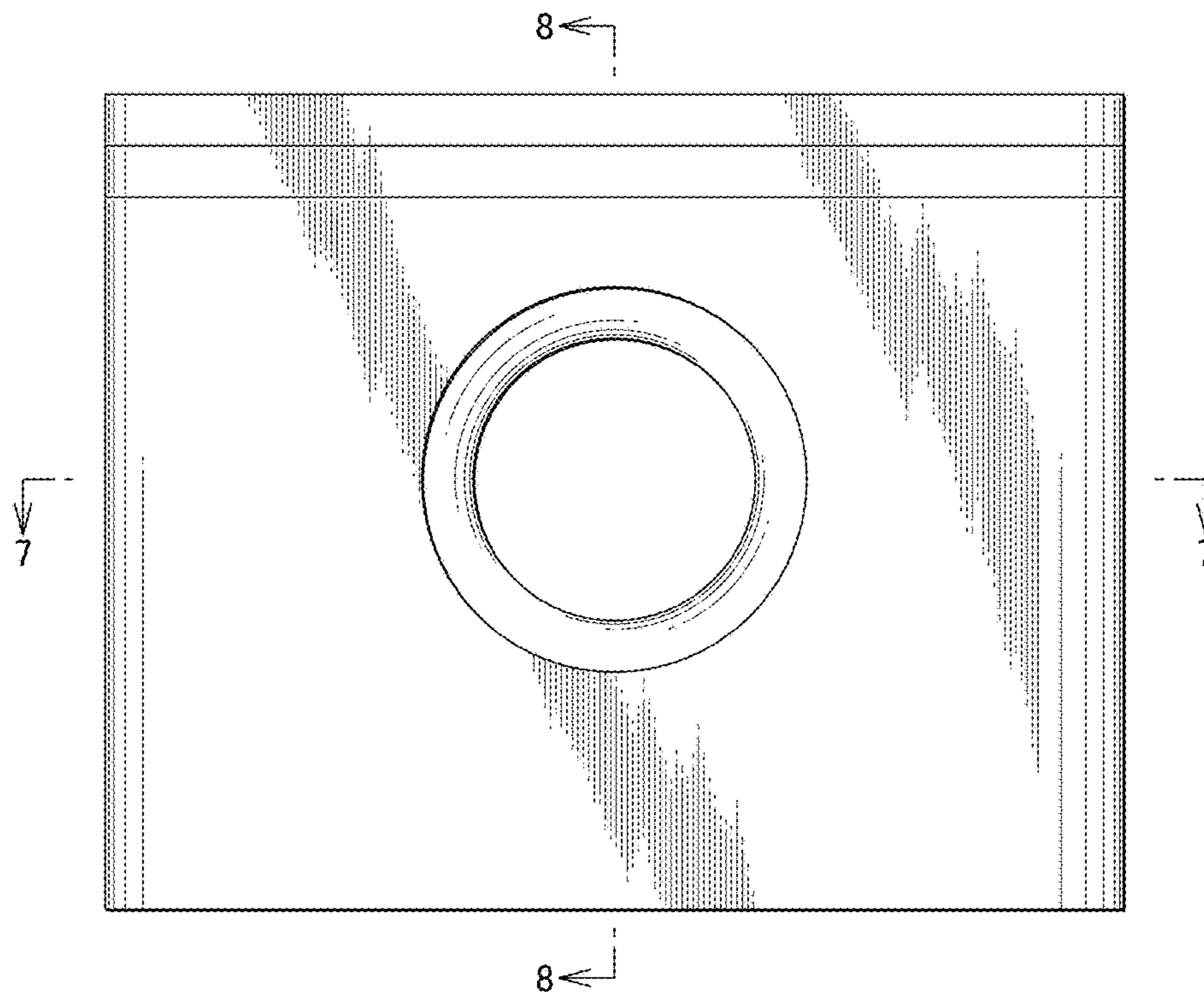


FIG.2

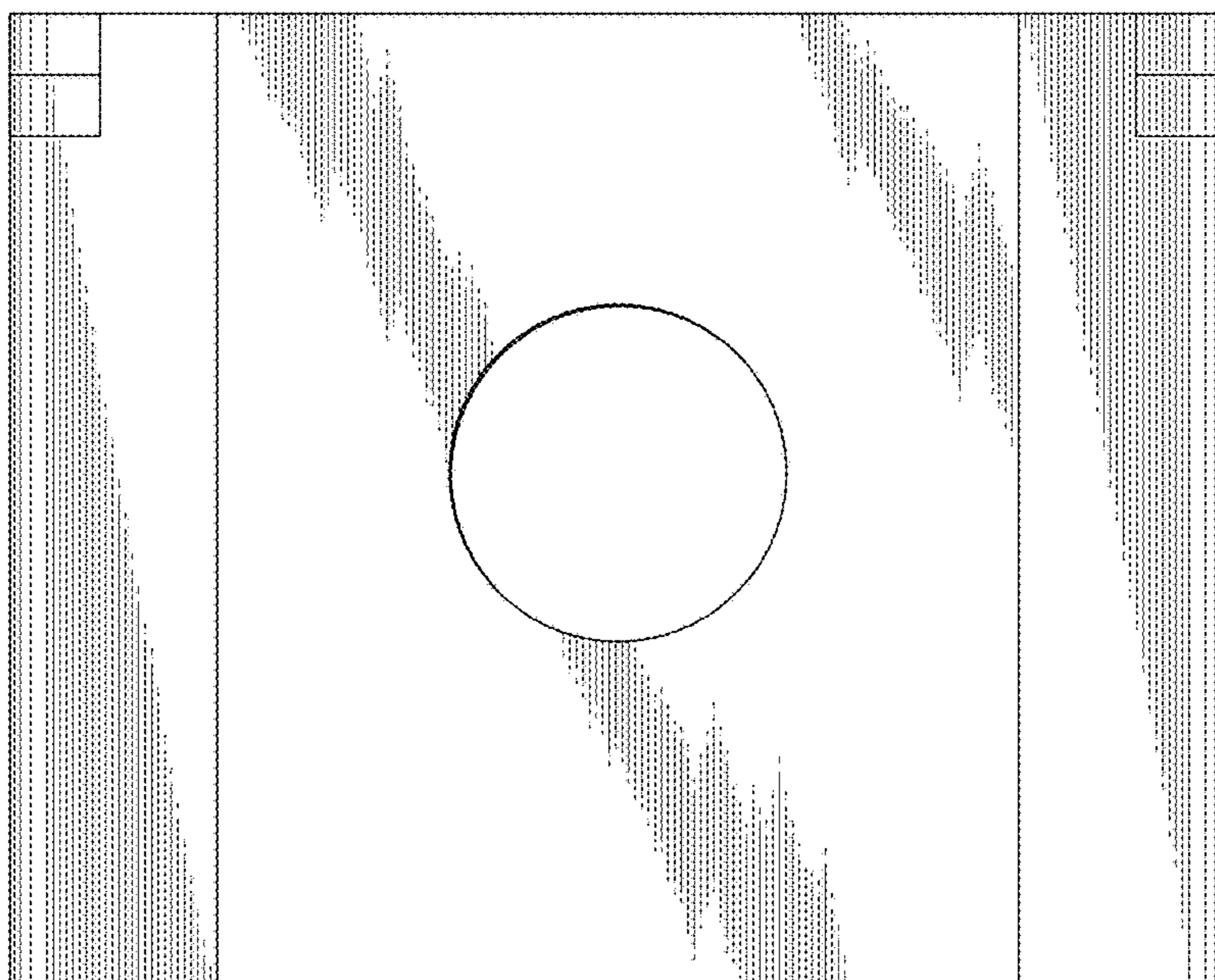


FIG.3

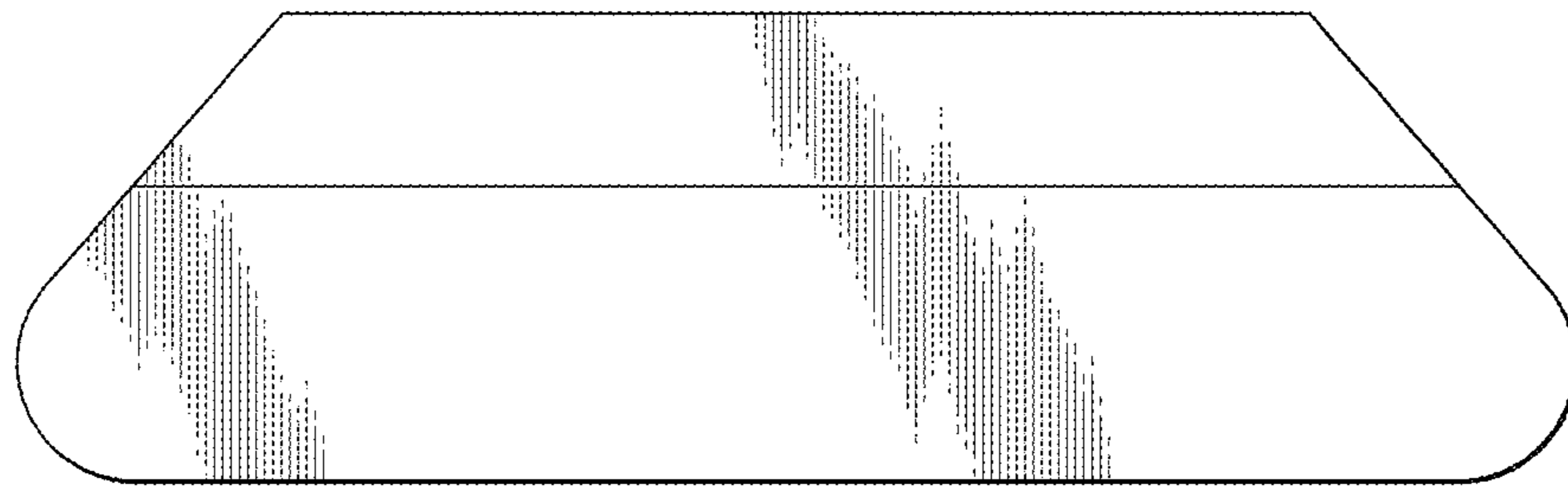


FIG.4

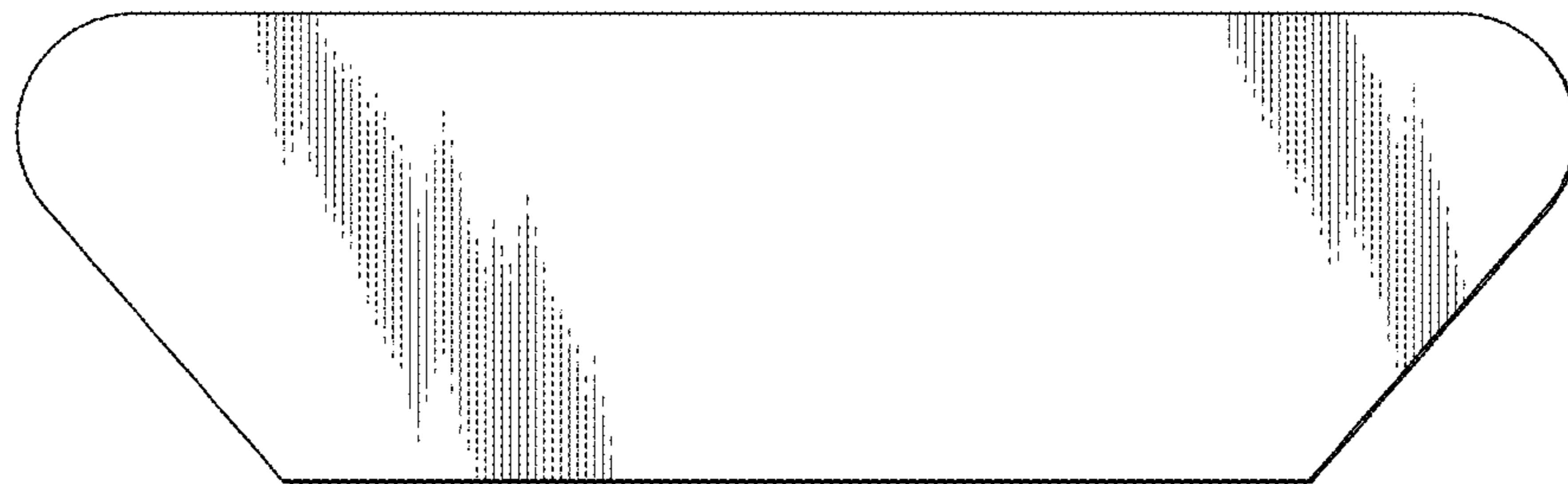


FIG.5

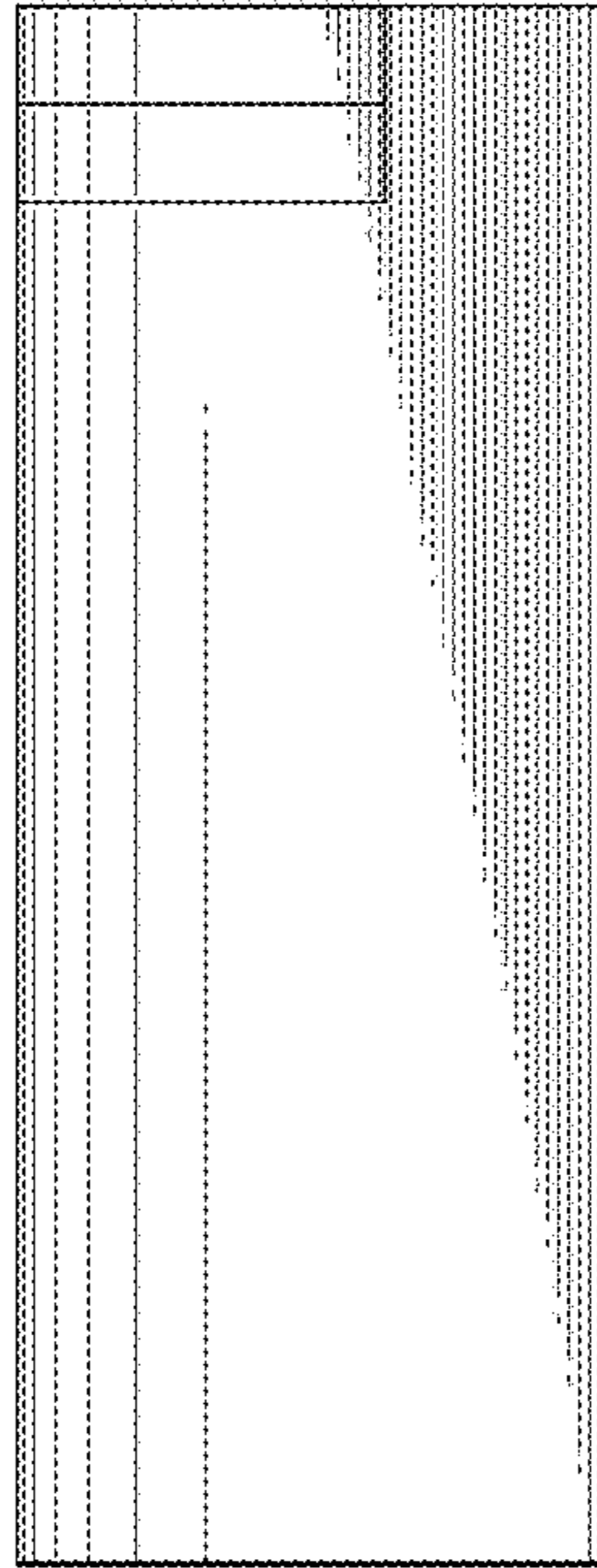


FIG.6

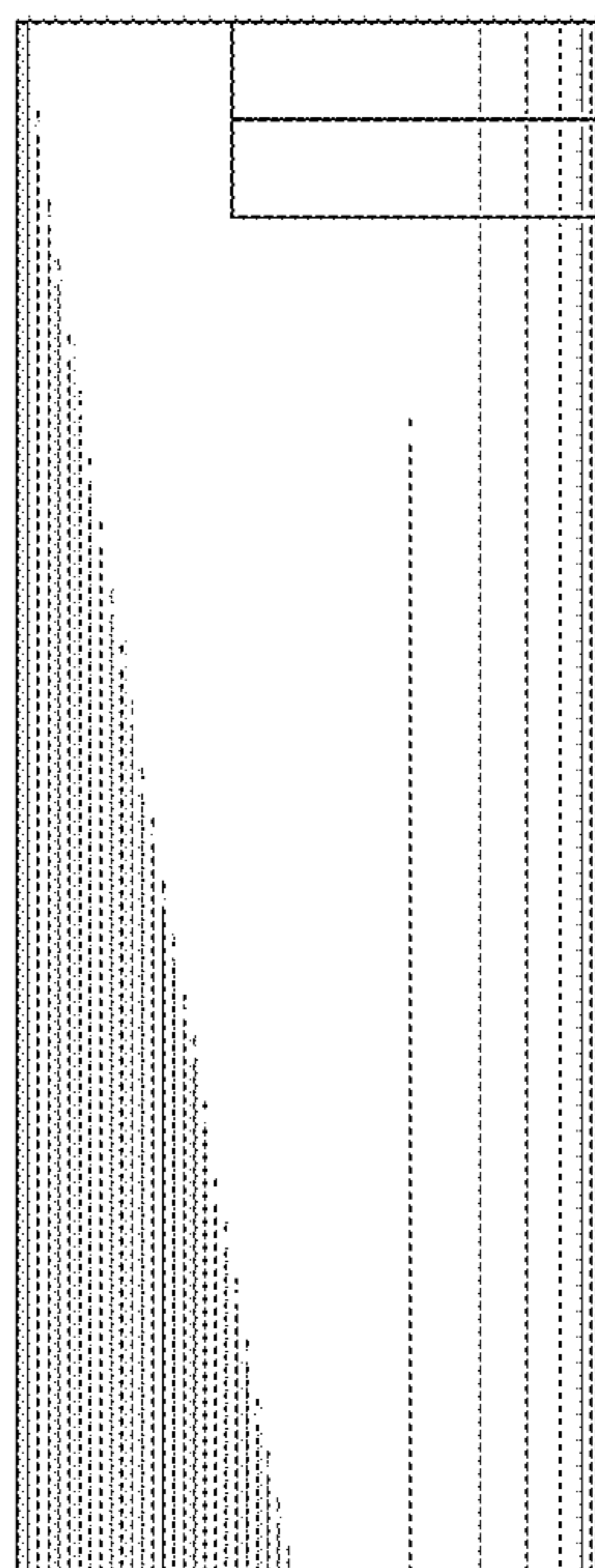


FIG.7

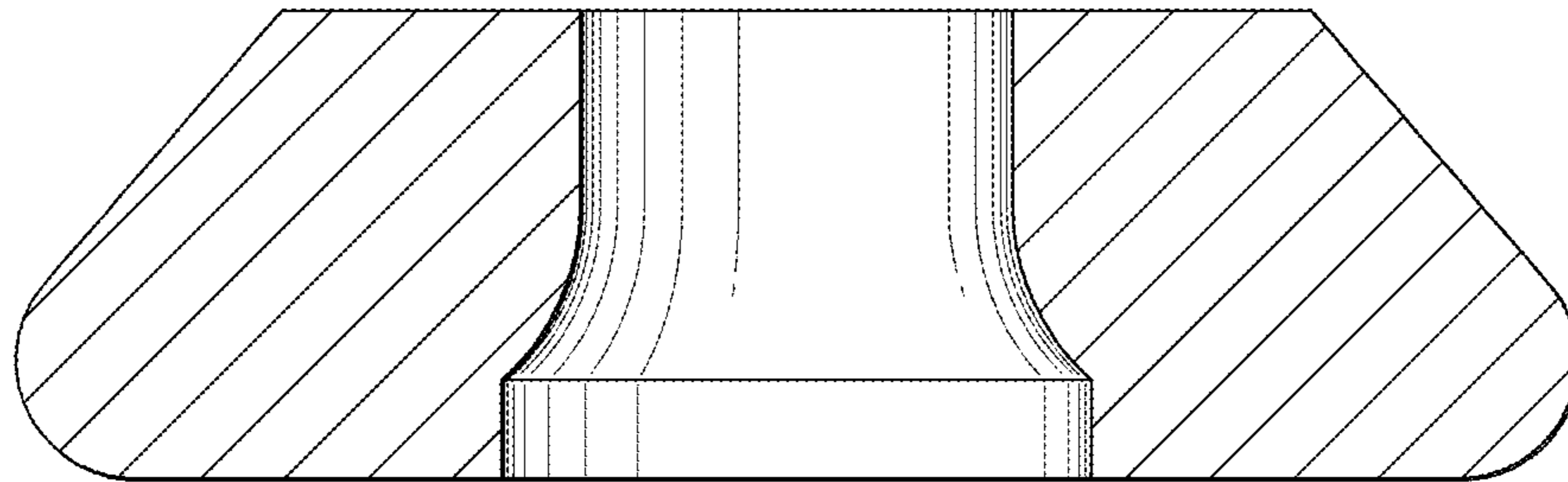


FIG.8

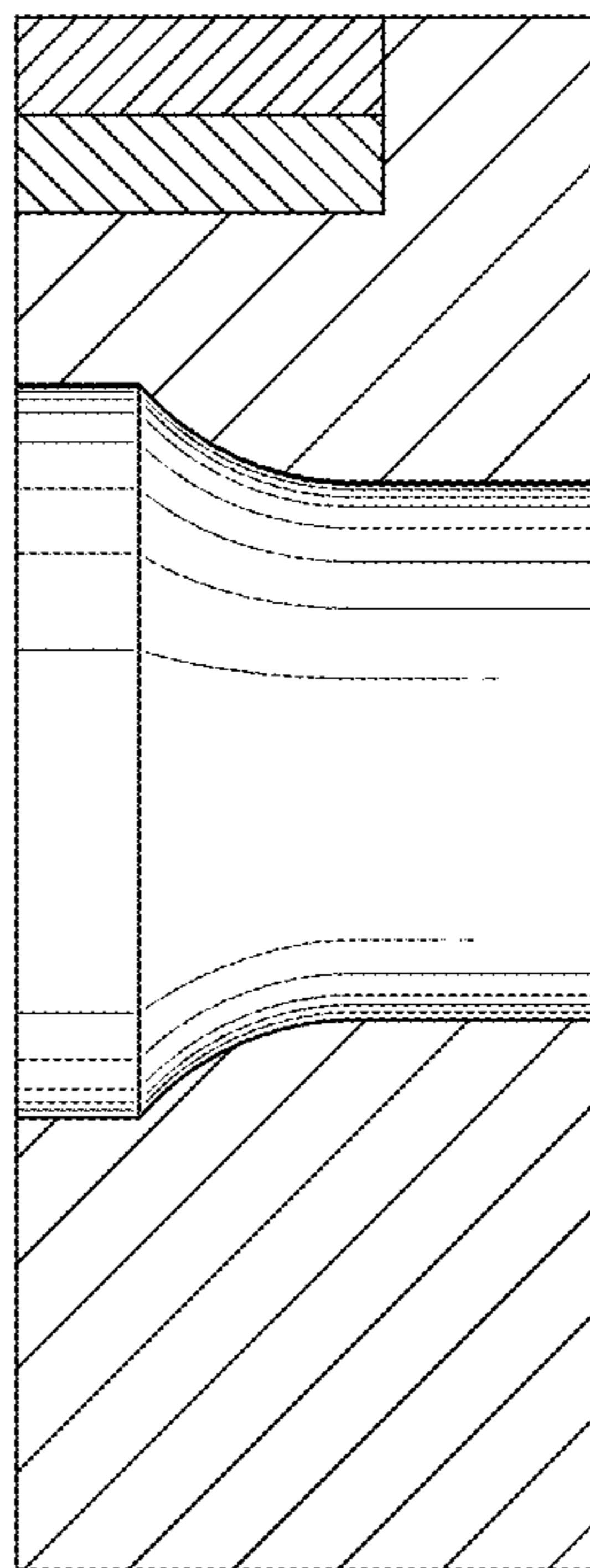


FIG.9

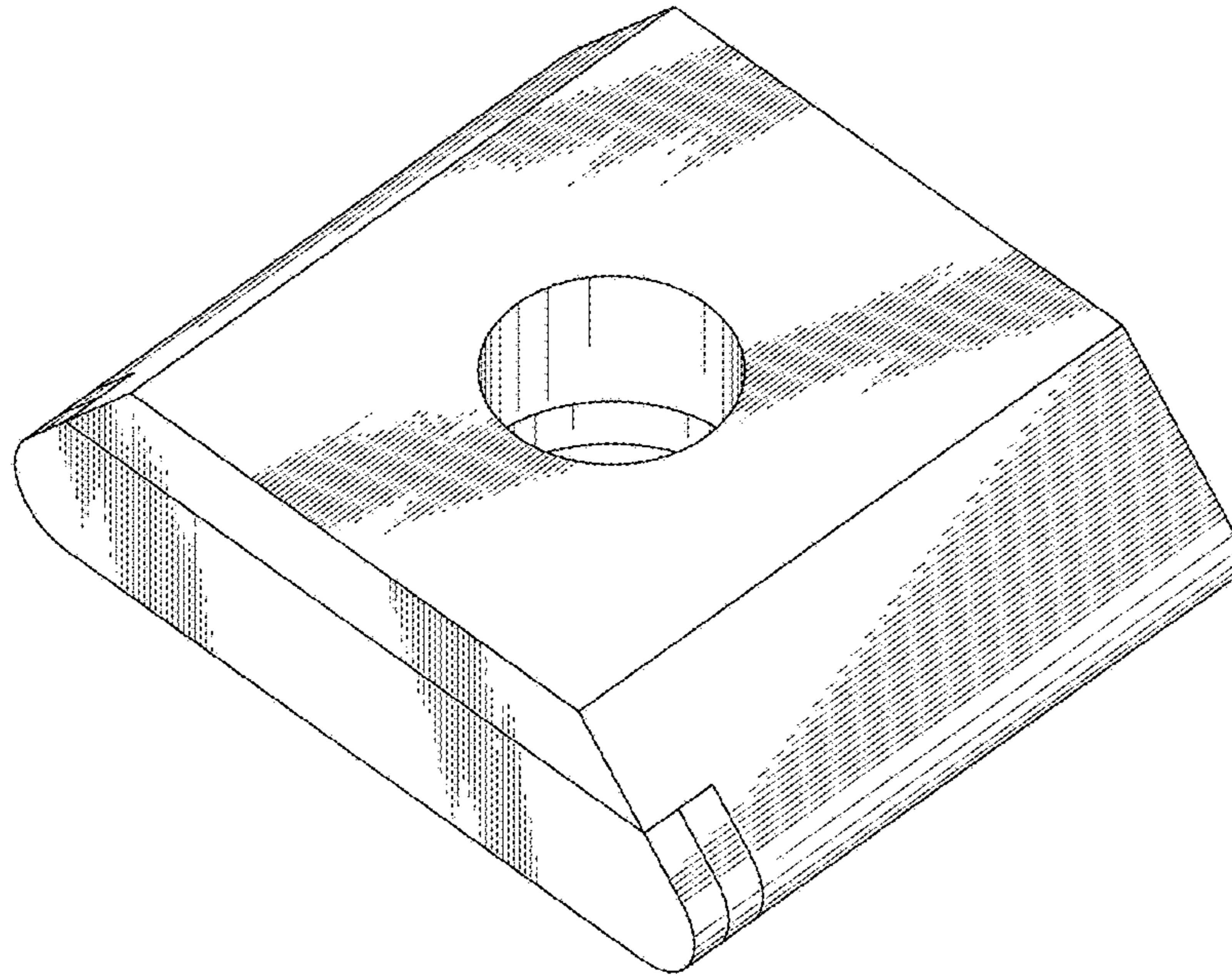


FIG.10

