



US00D773388S

(12) **United States Design Patent** (10) **Patent No.:** **US D773,388 S**
Sweeney (45) **Date of Patent:** **** Dec. 6, 2016**

(54) **SOLAR PANEL ELECTRICAL CONNECTOR**

(71) Applicant: **IlSCO Corporation**, Cincinnati, OH (US)

(72) Inventor: **Thomas M. Sweeney**, Cincinnati, OH (US)

(73) Assignee: **IlSCO Corporation**, Cincinnati, OH (US)

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

(21) Appl. No.: **29/542,545**

(22) Filed: **Oct. 15, 2015**

Related U.S. Application Data

(62) Division of application No. 29/481,913, filed on Feb. 12, 2014, now Pat. No. Des. 745,846, and a division of application No. 13/409,472, filed on Mar. 1, 2012, now abandoned.

(51) **LOC (10) Cl.** **13-02**

(52) **U.S. Cl.**
USPC **D13/102**

(58) **Field of Classification Search**
USPC D13/102, 118, 184, 199; D8/349, 354, D8/355, 356; D25/119, 123, 124, 125; 52/173.3, 460; 126/573, 580; 136/206, 136/244-251, 256, 291, 292; 248/205.1, 316.4; 439/92, 567, 625, 733.1, 797
CPC F24J 2/52; F24J 2/464; F24J 2/5211; F24J 2/5245; F24J 2/5256; F24J 2/5258; H01L 31/05; H01L 31/042; H01R 4/36; H01R 4/66; H01R 13/621; H01R 24/00; H01R 11/11; H01R 11/15; B21D 39/00; F16B 2/02; F16B 2/065; F16B 2/20; F16B 2/24

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,385,209 A 7/1966 Joyce
3,260,986 A 7/1966 Staffel

3,585,571 A 6/1971 Davis et al.
4,384,753 A 5/1983 Mixon, Jr.
4,784,621 A 11/1988 Auclair
5,199,905 A 4/1993 Fillingier
5,240,423 A 8/1993 Morrison
D344,598 S * 2/1994 Ehmke D25/124
D364,792 S * 12/1995 Yoder D12/223
5,928,006 A 7/1999 Franks, Jr.
6,494,726 B1 12/2002 Auclair
6,992,256 B1 1/2006 Wiley et al.
7,044,776 B2 5/2006 King, Jr. et al.
(Continued)

FOREIGN PATENT DOCUMENTS

WO 2009/094320 A2 7/2009

OTHER PUBLICATIONS

Erico®, Solar Bonding Lugs, internet printout, Aug. 9, 2010, 2 pgs.
(Continued)

Primary Examiner — Derrick Holland
(74) *Attorney, Agent, or Firm* — Wood Herron & Evans LLP

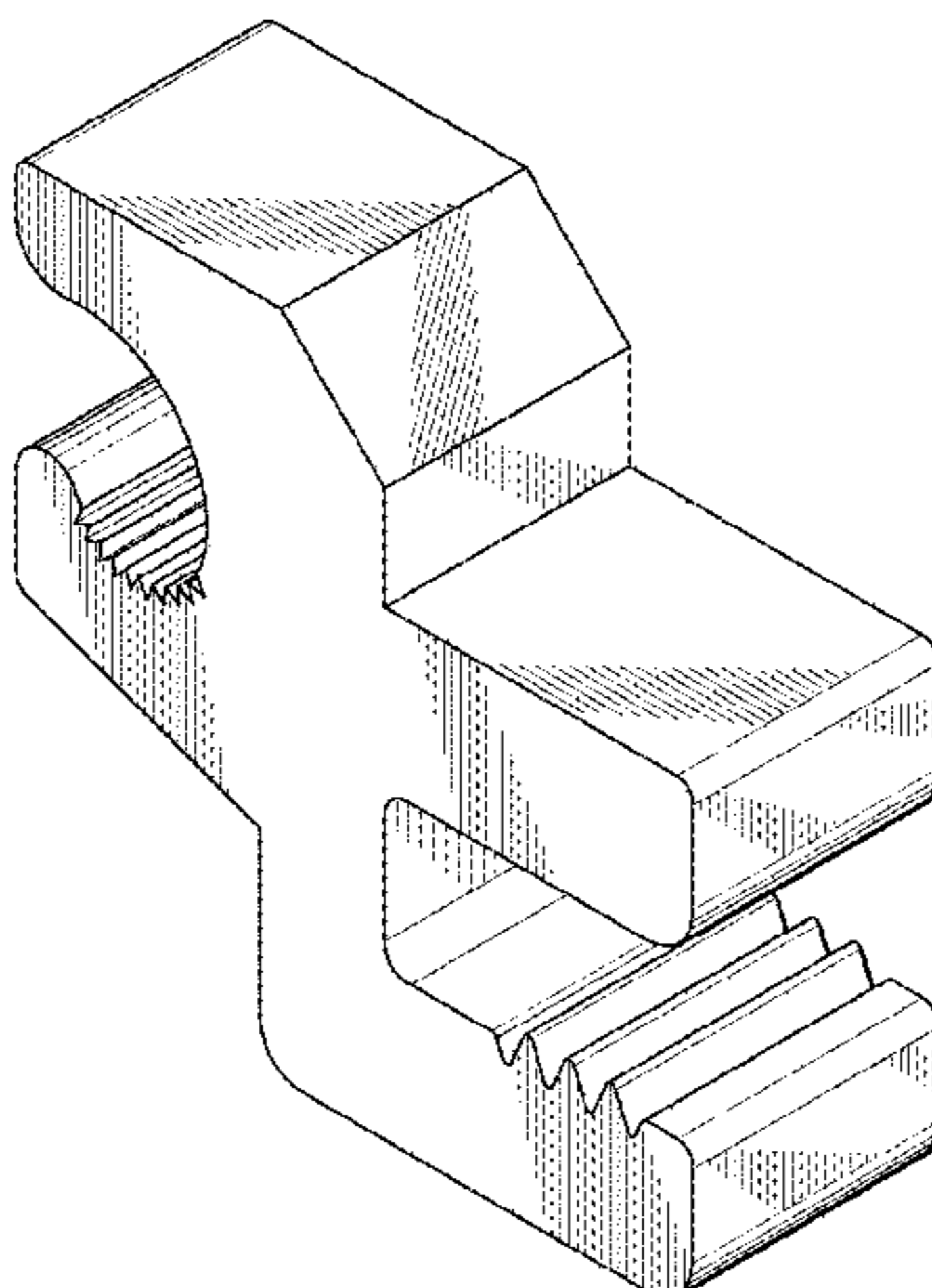
(57) **CLAIM**

The ornamental design for a solar panel electrical connector, as shown and described.

DESCRIPTION

FIG. 1 is an isometric view of a solar panel electrical connector showing my new design;
FIG. 2 is a second isometric view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a back view thereof;
FIG. 5 is a right side view thereof;
FIG. 6 is a left side view thereof;
FIG. 7 is a top plan view thereof; and,
FIG. 8 is a bottom plan view thereof.
The broken lines shown represent unclaimed subject matter and form no part of the claimed design.

1 Claim, 3 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D547,262	S *	7/2007	Ullman	D13/102
7,537,494	B1	5/2009	Umlauf	
7,566,250	B1	7/2009	Good	
7,625,238	B2	12/2009	Duesterhoeft	
7,670,153	B2	3/2010	Kulig	
7,677,932	B2	3/2010	King, Jr. et al.	
7,735,270	B2	6/2010	Olle et al.	
7,780,472	B2	8/2010	Lenox	
D627,717	S *	11/2010	Munoz	D13/102
7,862,390	B2 *	1/2011	Copper	H01R 4/5091 439/781
D673,904	S *	1/2013	Kobayashi	D13/102
9,196,978	B2	11/2015	Magno	
2007/0248434	A1	10/2007	Wiley et al.	
2008/0149170	A1	6/2008	Hanoka	
2009/0184222	A1	7/2009	Osborn et al.	
2011/0151703	A1	6/2011	Parker et al.	
2014/0042286	A1	2/2014	Jaffari	

OTHER PUBLICATIONS

Wiley Electronics LLC, Acme PV Peripherals, internet printout, undated, 2 pgs.

O-Z/Gedney, Ground Fittings, MA5, Dec. 2007, 5 pgs.

O-Z/Gedney, Grounding Fittings Catalog, MA1-MA9, Nov. 2005, 9 pgs.

* cited by examiner

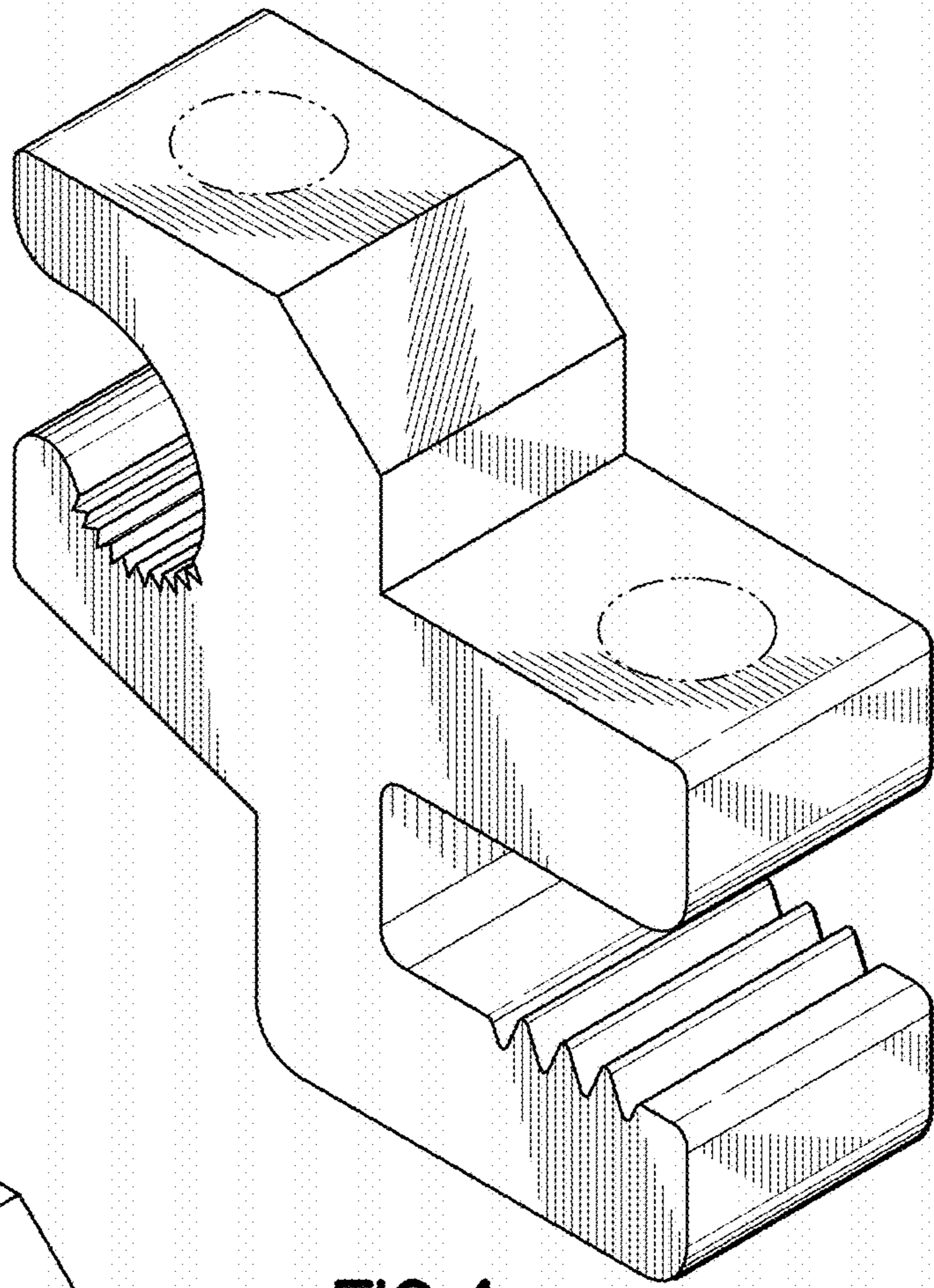


FIG. 1

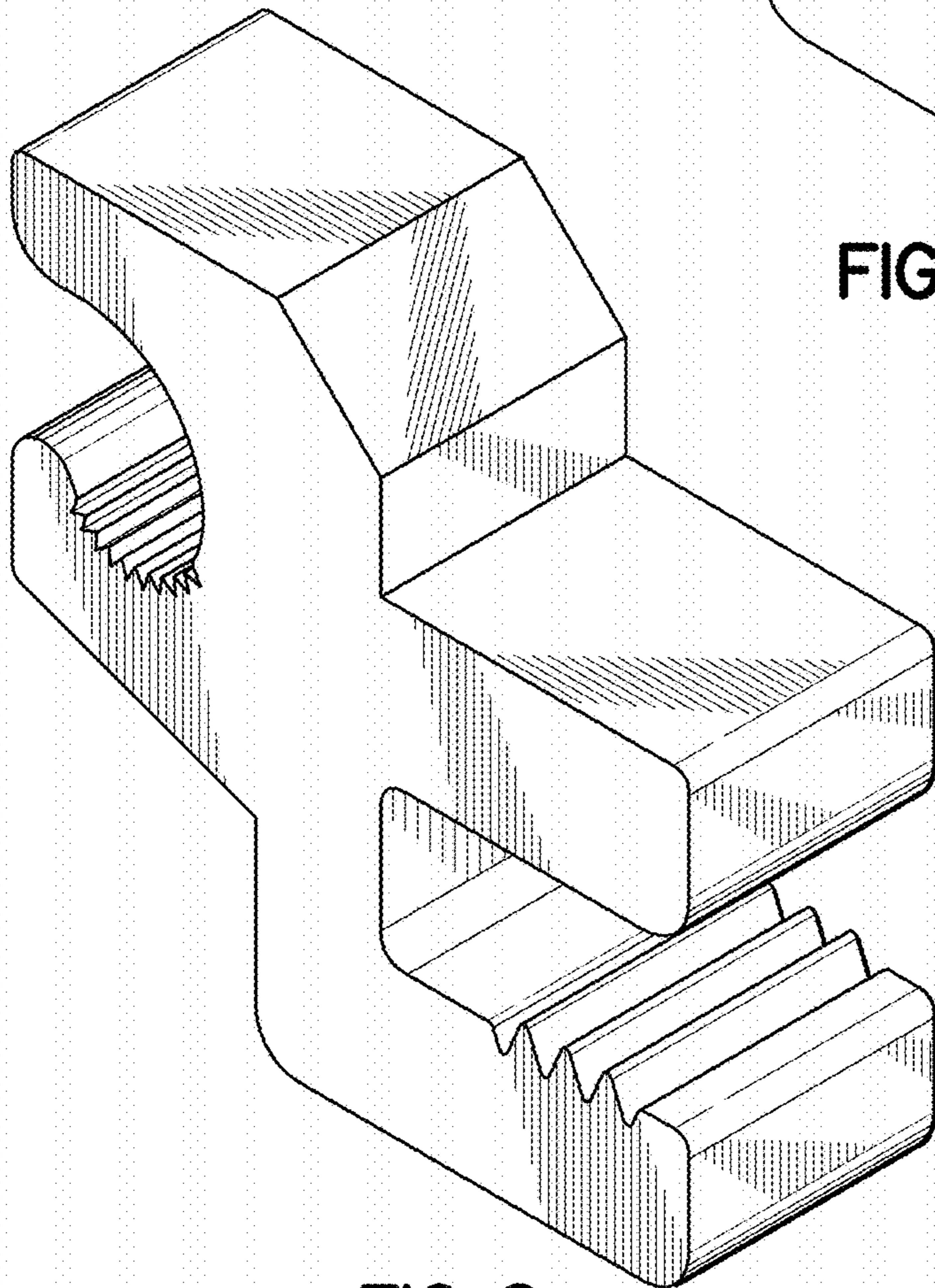


FIG. 2

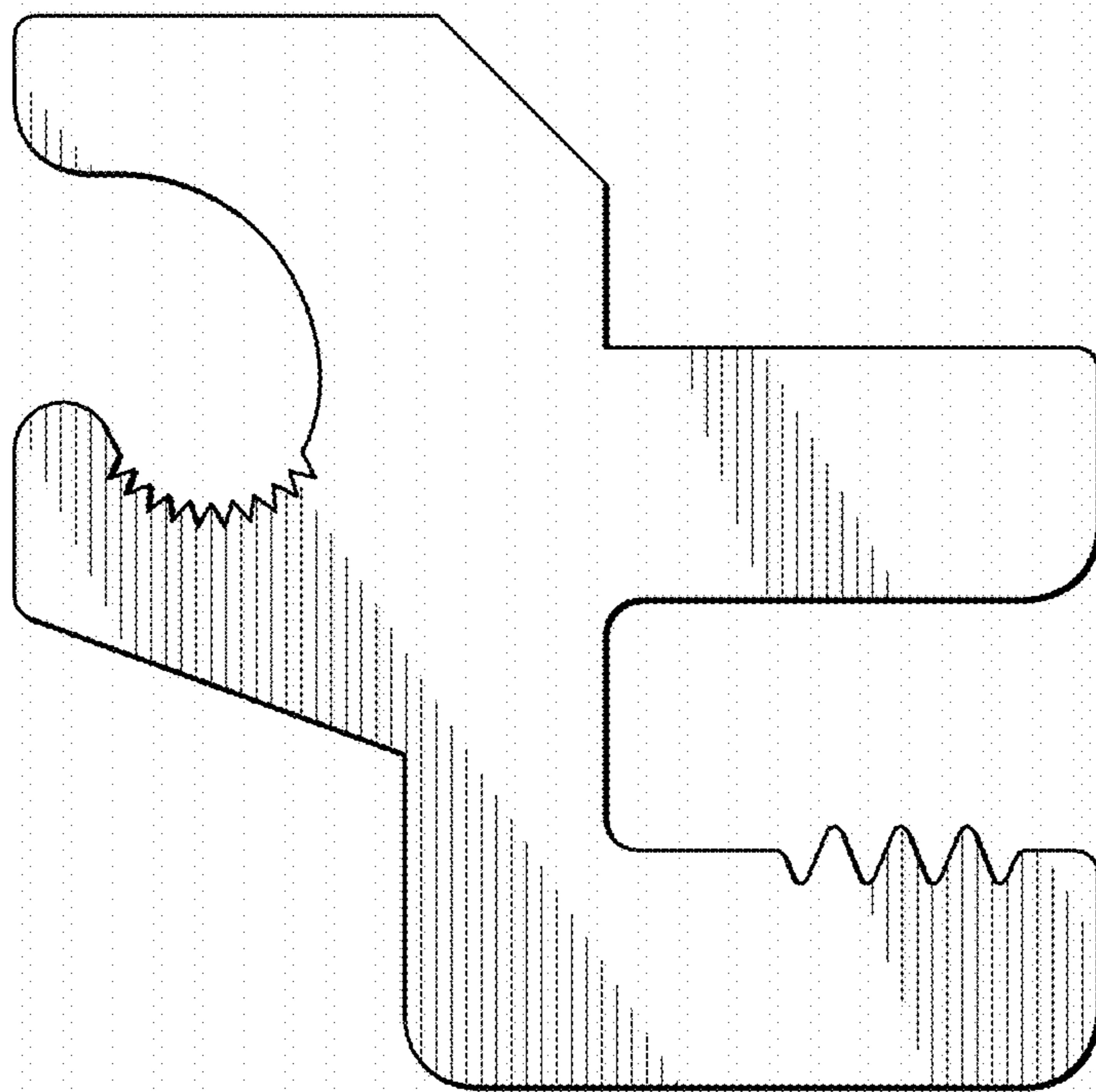


FIG. 3

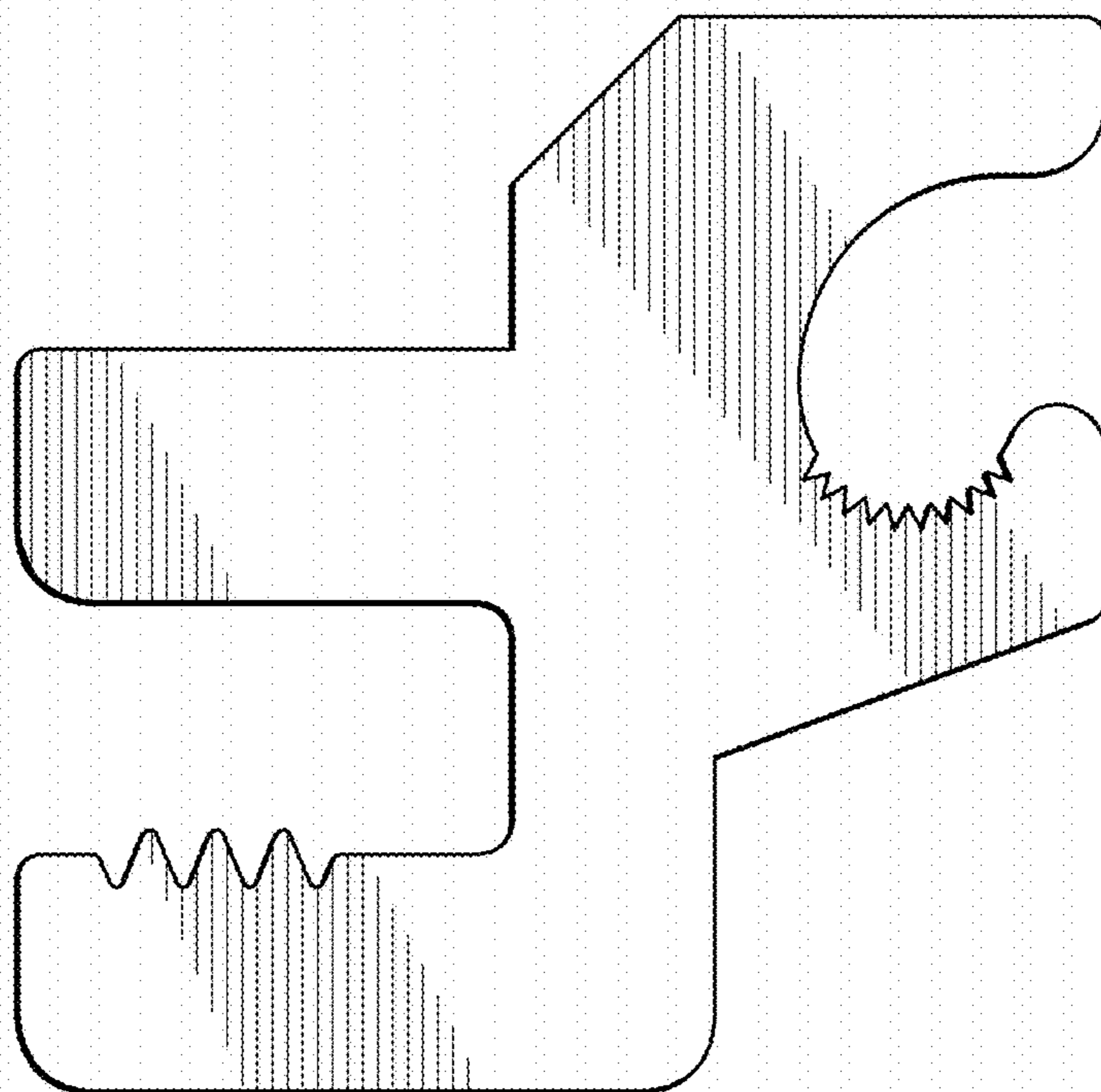


FIG. 4

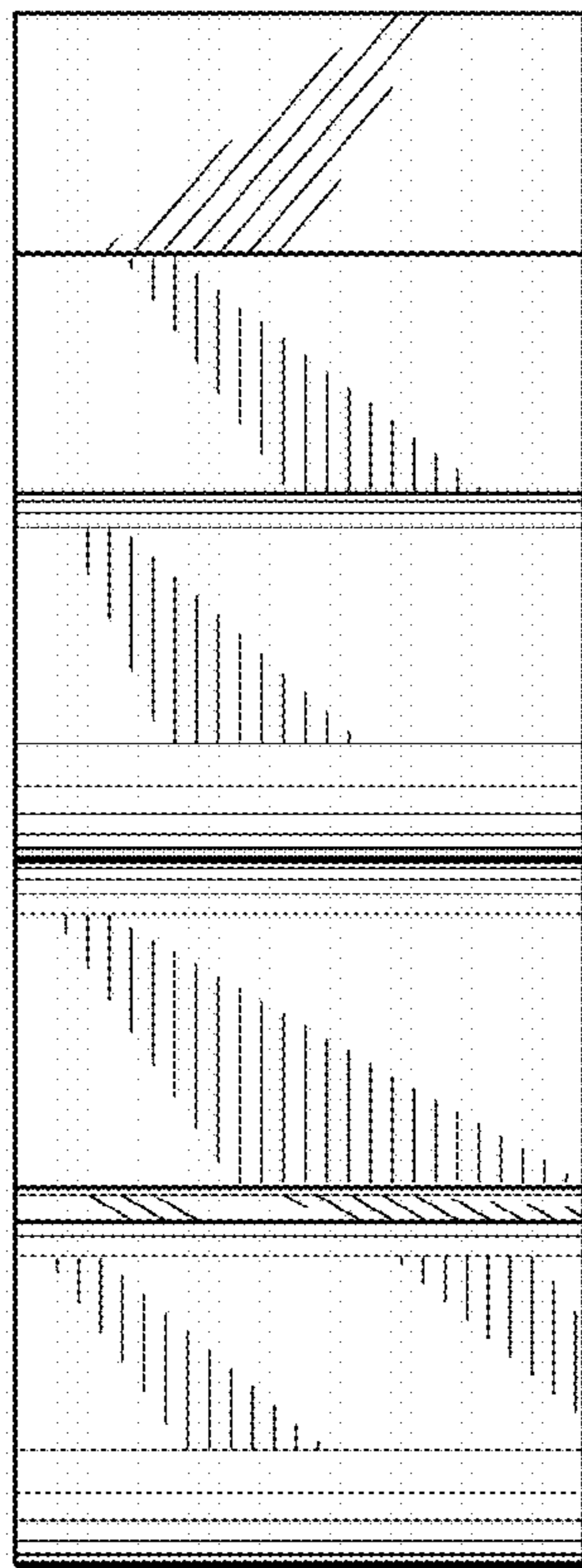


FIG. 5

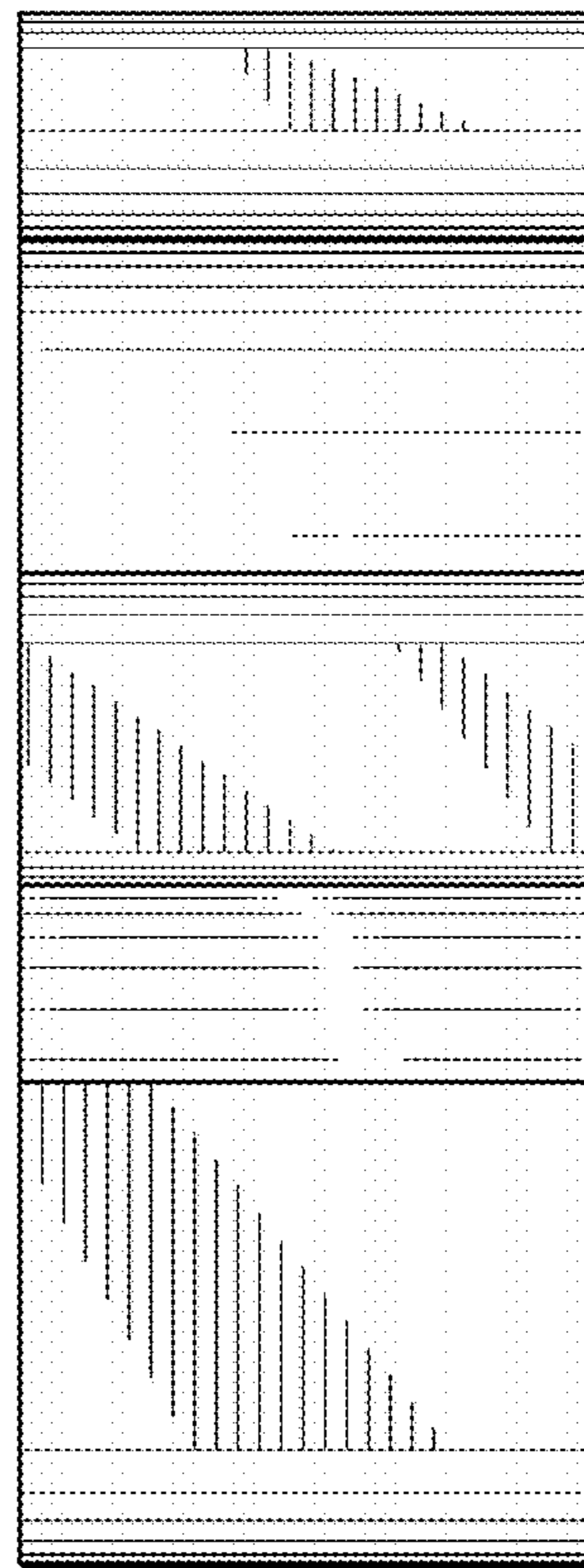


FIG. 6

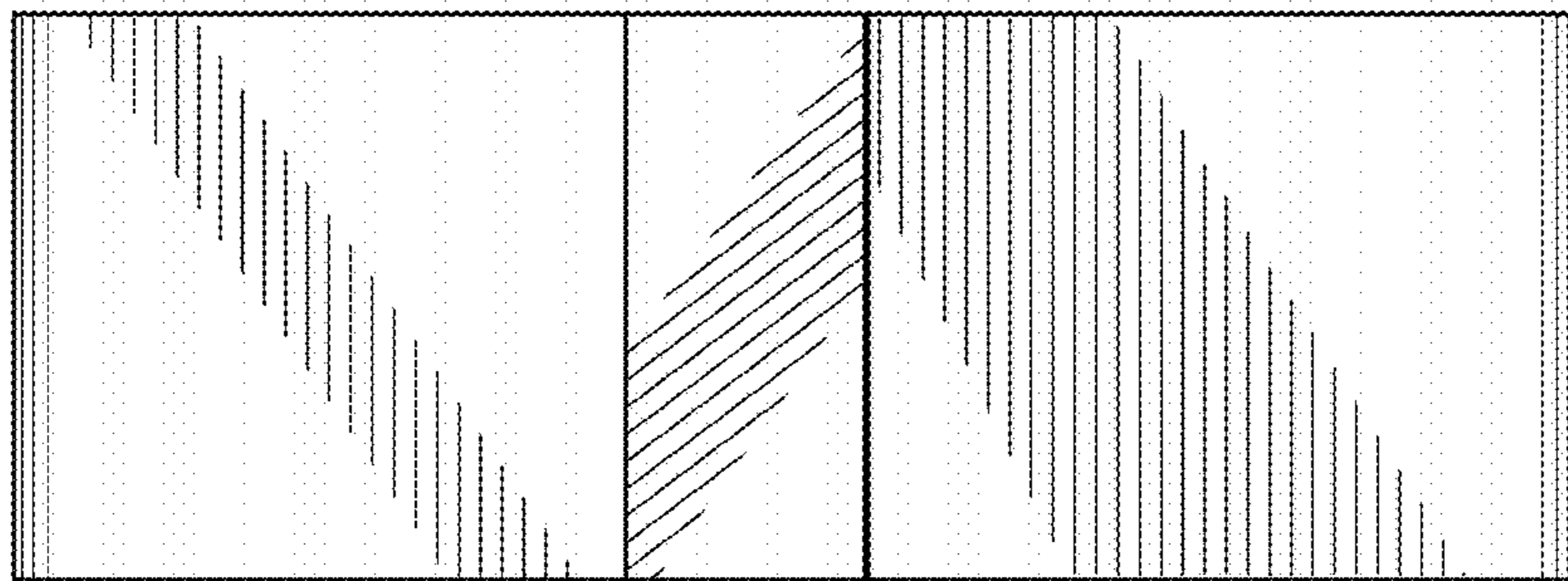


FIG. 7

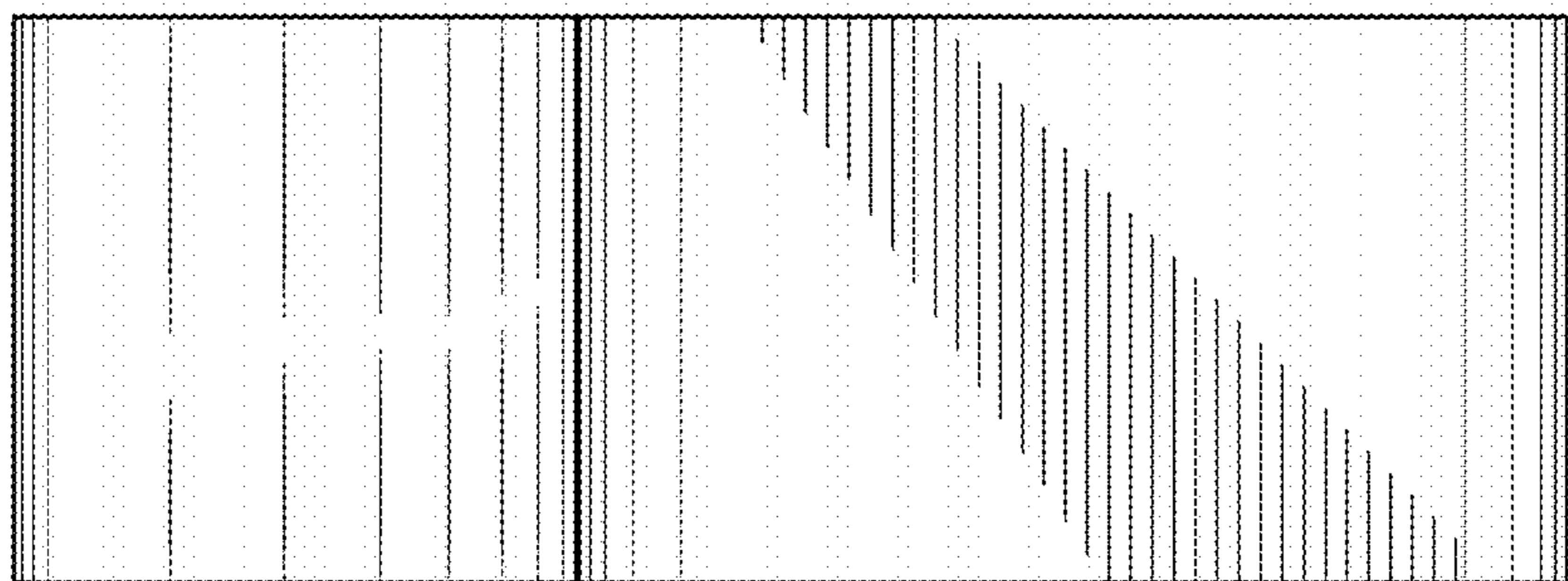


FIG. 8