



US00D765159S

(12) **United States Design Patent** (10) **Patent No.:** **US D765,159 S**
Novak et al. (45) **Date of Patent:** **** Aug. 30, 2016**

- (54) **HOLE SAW**
- (71) Applicant: **IRWIN INDUSTRIAL TOOL COMPANY**, Huntersville, NC (US)
- (72) Inventors: **Joseph Thomas Novak**, East Longmeadow, MA (US); **Matthew Christopher Green**, Amherst, MA (US); **Robert Richard Zielonka**, Enfield, CT (US); **William B. Korb**, Broad Brook, CT (US)

2,179,029 A	11/1939	Barnes
2,312,176 A	2/1943	Kotowski
2,319,528 A	5/1943	Barbour et al.
2,427,085 A	9/1947	Allison
2,473,077 A	6/1949	Starbuck, Jr.
2,482,439 A	9/1949	Smith
2,633,040 A	3/1953	Schlage
2,779,361 A	1/1957	McKiff
2,794,469 A	6/1957	Shortell
2,852,967 A	9/1958	Mueller et al.

(Continued)

FOREIGN PATENT DOCUMENTS

- (73) Assignee: **Irwin Industrial Tool Company**, Huntersville, NC (US)

DE	20101718 A	5/2001
JP	2006321024 A	11/2006

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/480,981**

Petition for Inter Partes Review of U.S. Pat. No. 8,579,544, Jun. 22, 2015, 55 pages.

(22) Filed: **Jan. 31, 2014**

(Continued)

Related U.S. Application Data

- (62) Division of application No. 29/459,501, filed on Jul. 1, 2013, now Pat. No. Des. 701,544, which is a division of application No. 29/418,439, filed on Apr. 17, 2012, now Pat. No. Des. 687,472, which is a division of application No. 29/353,759, filed on Jan. 13, 2010, now Pat. No. Des. 659,176.

Primary Examiner — Patricia Palasik

(74) *Attorney, Agent, or Firm* — Sutherland Asbill & Brennan LLP

- (51) **LOC (10) Cl.** **15-09**
- (52) **U.S. Cl.**
USPC **D15/139**
- (58) **Field of Classification Search**
USPC D8/70; D15/138, 139, 140;
408/200–225, 1 R
See application file for complete search history.

(57) **CLAIM**

The ornamental design for hole saw, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a first embodiment of a hole saw showing the present invention; FIG. 2 is a front elevational view thereof; FIG. 3 is a rear elevational view thereof; FIG. 4 is a left side elevational view thereof; FIG. 5 is a right side elevational view thereof; FIG. 6 top plan view thereof; and, FIG. 7 is a bottom plan view thereof. The broken lines in the figures show structure or boundaries that are not part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,150,279 A	8/1915	Little
1,234,468 A	7/1917	Hamilton
1,494,897 A	5/1924	Freye

1 Claim, 2 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

3,220,449 A 11/1965 Franklin
 3,387,637 A 6/1968 Ferguson et al.
 3,610,768 A 10/1971 Cochran
 3,810,514 A 5/1974 Viscovich
 3,880,546 A 4/1975 Segal
 3,973,862 A 8/1976 Segal
 4,077,737 A 3/1978 Morse
 D282,369 S 1/1986 de Villiers
 4,652,185 A 3/1987 Malrick
 4,760,643 A 8/1988 Juma
 D303,118 S 8/1989 Cox
 5,007,777 A 4/1991 Itokazu
 D317,455 S 6/1991 Martin
 5,044,393 A 9/1991 Jiles
 5,049,010 A 9/1991 Oakes
 5,058,620 A 10/1991 Jiles
 5,061,126 A 10/1991 Cain et al.
 5,082,403 A 1/1992 Sutton et al.
 5,171,111 A 12/1992 Kishimoto
 5,205,675 A 4/1993 Hamel
 5,205,685 A 4/1993 Herbert
 D342,270 S 12/1993 Kwang
 5,597,274 A 1/1997 Behner
 5,651,646 A 7/1997 Banke et al.
 D391,974 S 3/1998 Brutscher
 D392,297 S 3/1998 Brutscher
 5,803,677 A 9/1998 Brutscher et al.
 5,820,315 A 10/1998 Collard
 D408,831 S 4/1999 McGregor
 5,904,454 A 5/1999 Washer
 6,152,661 A 11/2000 Thrasher
 D438,219 S 2/2001 Brutscher
 6,341,925 B1 1/2002 Despres
 6,357,973 B2 3/2002 Chao
 6,409,436 B1 6/2002 Despres
 6,588,992 B2 7/2003 Rudolph
 6,599,063 B1 7/2003 Capstran
 D478,105 S 8/2003 Morton et al.
 D478,106 S 8/2003 Morton et al.
 D478,339 S 8/2003 Morton et al.
 D478,919 S 8/2003 Morton et al.
 6,623,220 B2 9/2003 Nuss et al.
 6,641,338 B2 11/2003 Despres
 6,676,343 B2 1/2004 Burk
 6,746,187 B2 6/2004 Alm
 6,786,684 B1 9/2004 Ecker
 6,893,194 B2 5/2005 Jones et al.
 6,948,574 B2 9/2005 Cramer et al.
 D516,594 S 3/2006 Morton
 7,097,397 B2 8/2006 Keightley
 7,101,124 B2 9/2006 Keightley
 7,160,064 B2 1/2007 Jasso
 7,163,362 B2 1/2007 Keightley
 7,189,036 B1 3/2007 Watson
 7,237,291 B2 7/2007 Redford

D551,269 S 9/2007 Burke, III
 D588,175 S 3/2009 Morton
 7,556,459 B2 7/2009 Rompel
 7,611,312 B2 11/2009 Miyanaga
 7,621,703 B2 11/2009 Keightley
 7,637,703 B2 12/2009 Khangar et al.
 7,658,136 B2 2/2010 Rompet et al.
 7,661,913 B2 2/2010 Nordlin
 D620,035 S 7/2010 Eades
 D624,808 S 10/2010 Krawczak et al.
 7,850,405 B2 12/2010 Keightley
 D631,732 S 2/2011 Krawczak et al.
 7,959,371 B2 6/2011 Keightley
 D644,327 S 8/2011 Singh
 D659,176 S 5/2012 Novak et al.
 D664,574 S 7/2012 Burke, III
 8,221,037 B2 7/2012 Neitzell
 D690,334 S 9/2013 Zielonka et al.
 8,579,554 B2 11/2013 Novak et al.
 8,579,555 B2 11/2013 Novak et al.
 2004/0042861 A1 3/2004 Capstran
 2005/0214086 A1 9/2005 Nicholas
 2005/0244238 A1 11/2005 Burk
 2006/0285934 A1 12/2006 Keightley
 2007/0003386 A1 1/2007 Keightley
 2007/0110527 A1 5/2007 Jasso
 2007/0166116 A1 7/2007 Olson et al.
 2007/0269280 A1 11/2007 Vasudeva et al.
 2008/0050189 A1 2/2008 Keightley
 2008/0181738 A1 7/2008 Capriotti et al.
 2009/0035082 A1 2/2009 Singh
 2009/0169317 A1 7/2009 Rae
 2010/0067995 A1* 3/2010 Keightley B23B 51/0426
 408/68
 2011/0170965 A1 7/2011 Novak et al.
 2011/0170966 A1 7/2011 Novak et al.
 2011/0170967 A1 7/2011 Novak et al.
 2011/0170968 A1* 7/2011 Moffatt B23B 51/0473
 408/204
 2011/0243675 A1 10/2011 Fach
 2012/0009032 A1* 1/2012 Grussenmeyer B23B 51/0426
 408/204
 2012/0183366 A1 7/2012 Stenman
 2013/0277256 A1* 10/2013 Green B25H 3/003
 206/372
 2014/0369775 A1* 12/2014 Lai B23B 31/1071
 408/209

OTHER PUBLICATIONS

Office Action mailed Mar. 5, 2013 for U.S. Appl. No. 12/687,065, 26 pages.
 "Fulcrum." Webster's Dictionary, Merriam-Webster, 2009, p. 139.
 Declaration of James Pangerc from Petition for Inter Partes Review of U.S. Pat. No. 8,579,554, Signed and dated Jun. 22, 2015, 11 pages.

* cited by examiner

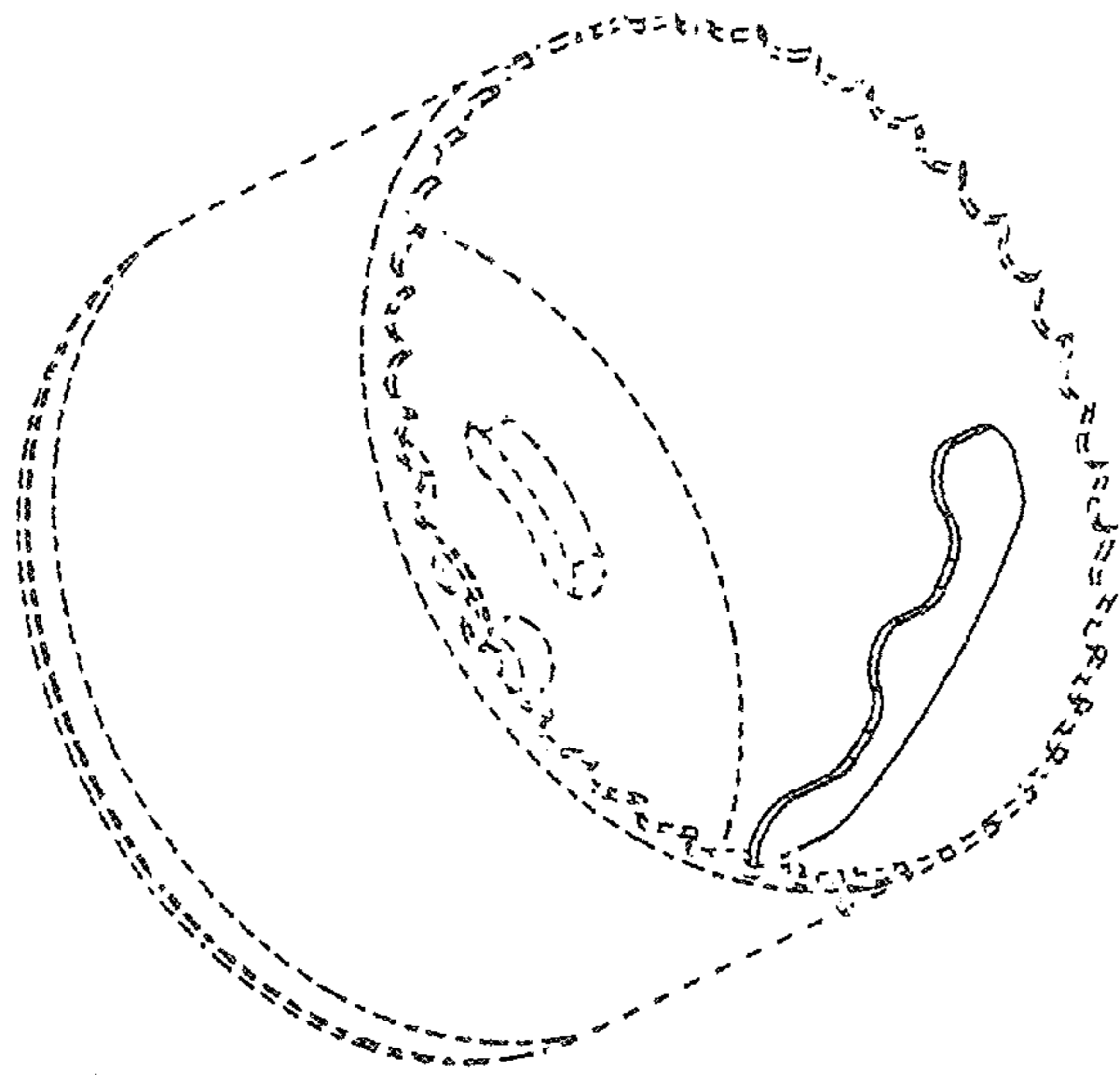


FIG. 1

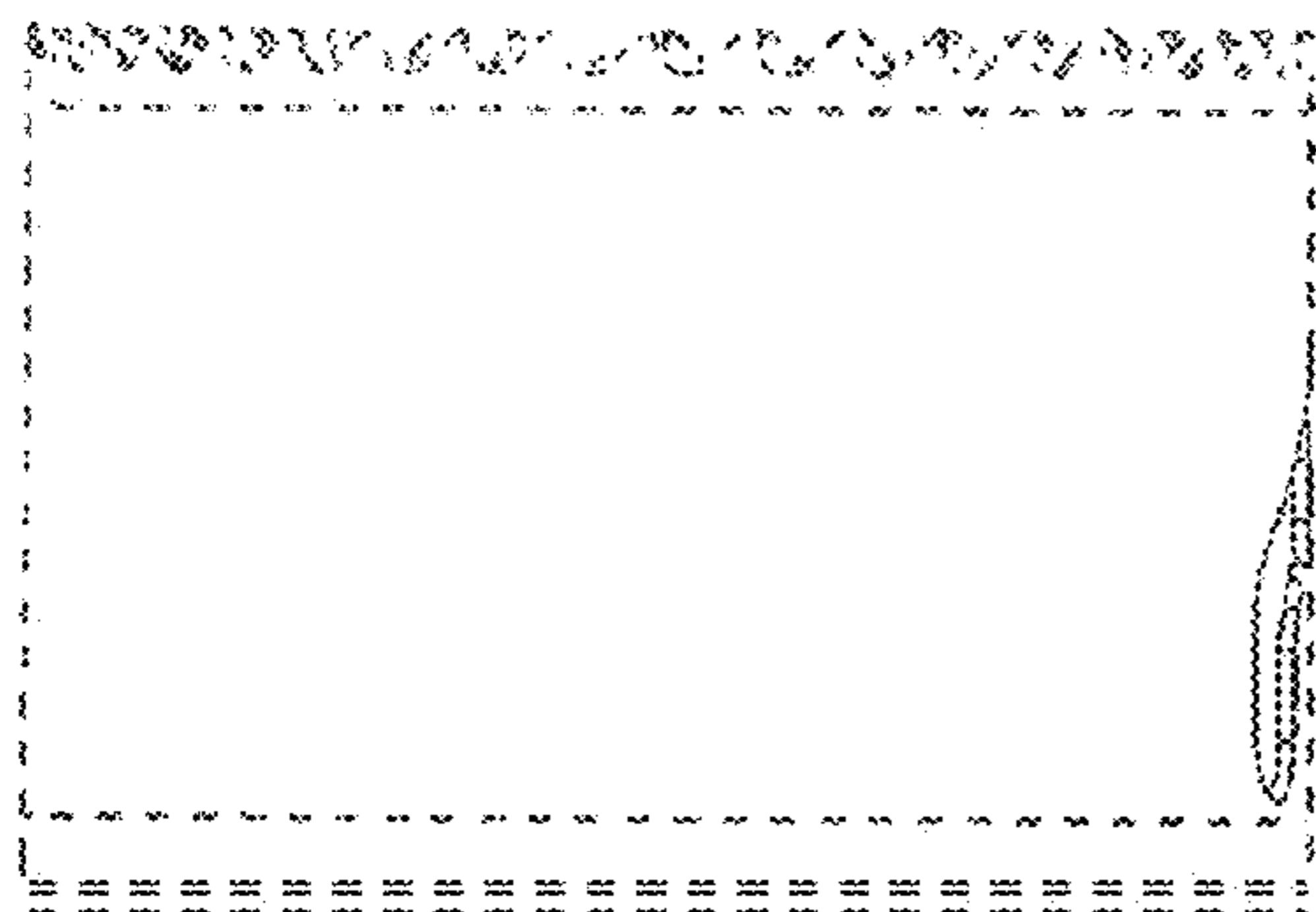


FIG. 2

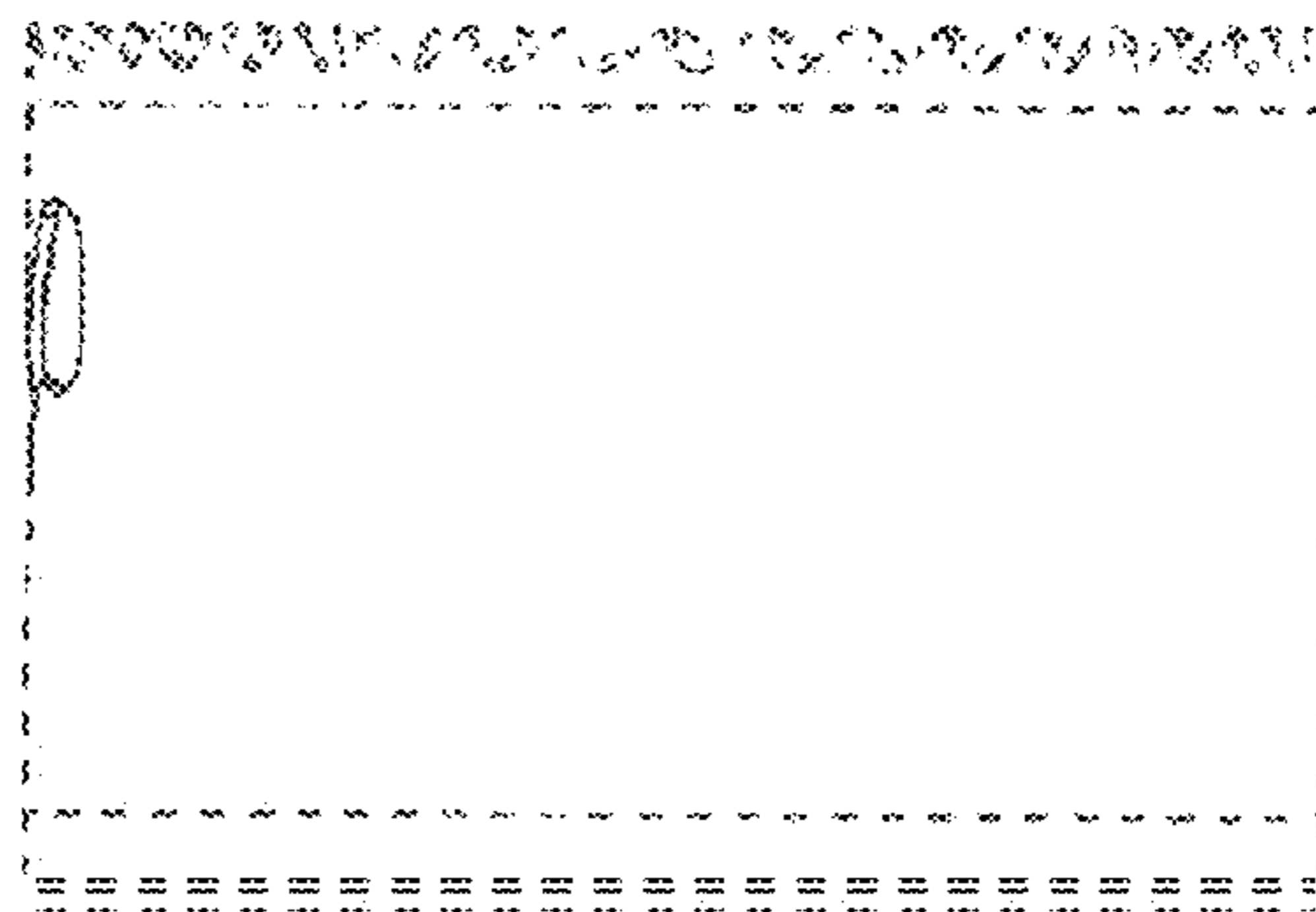


FIG. 3

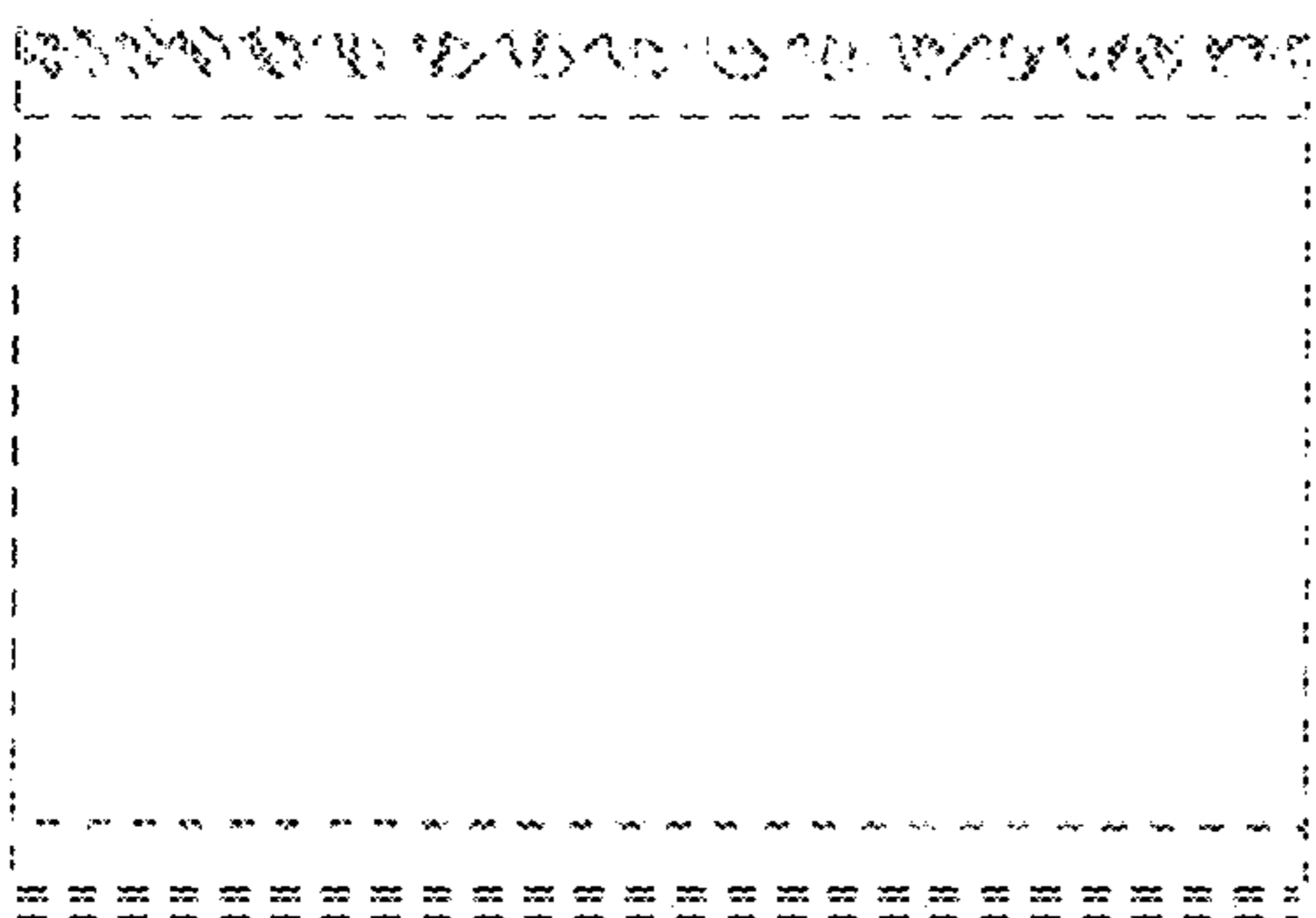


FIG. 4

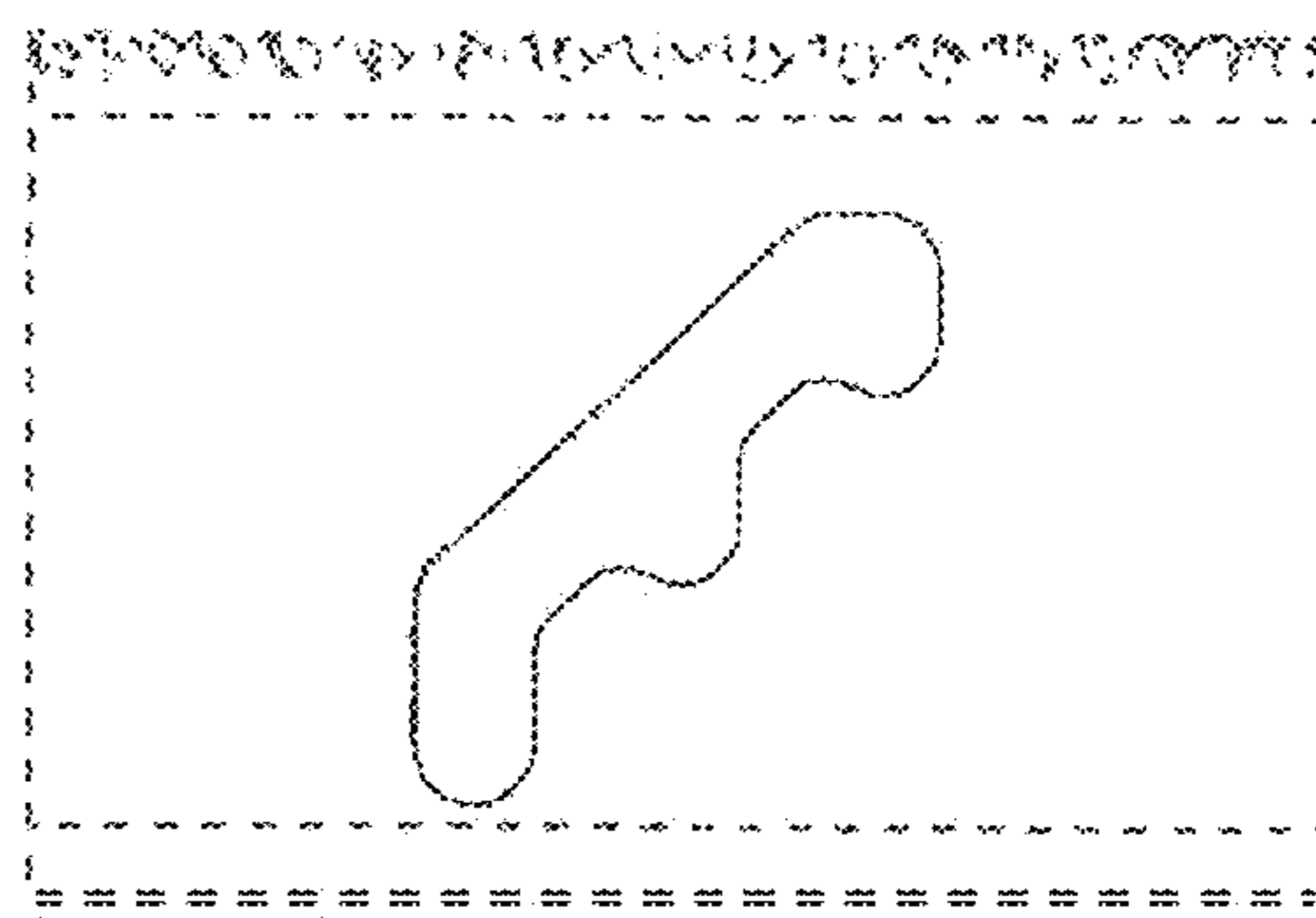


FIG. 5

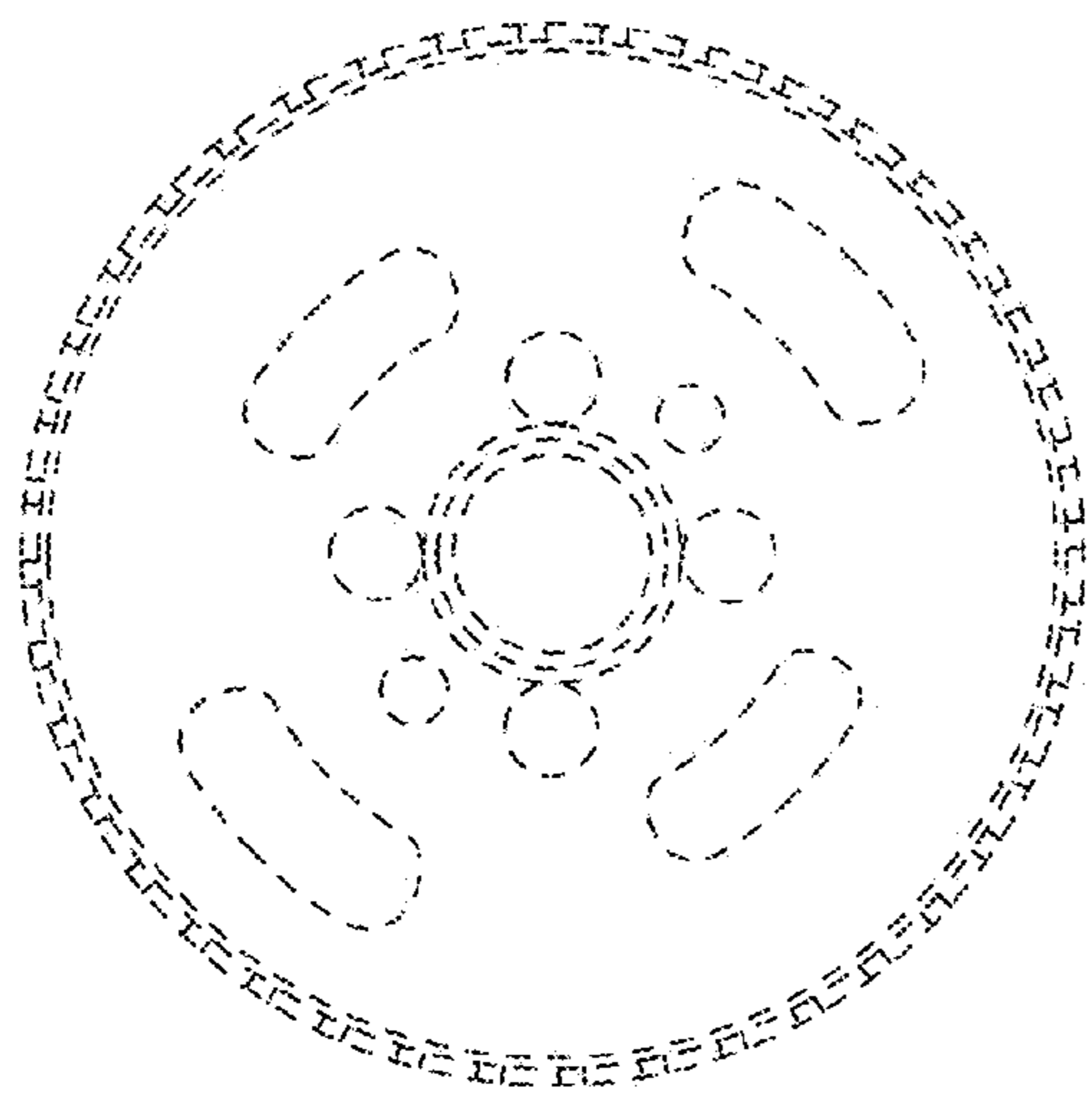


FIG. 6

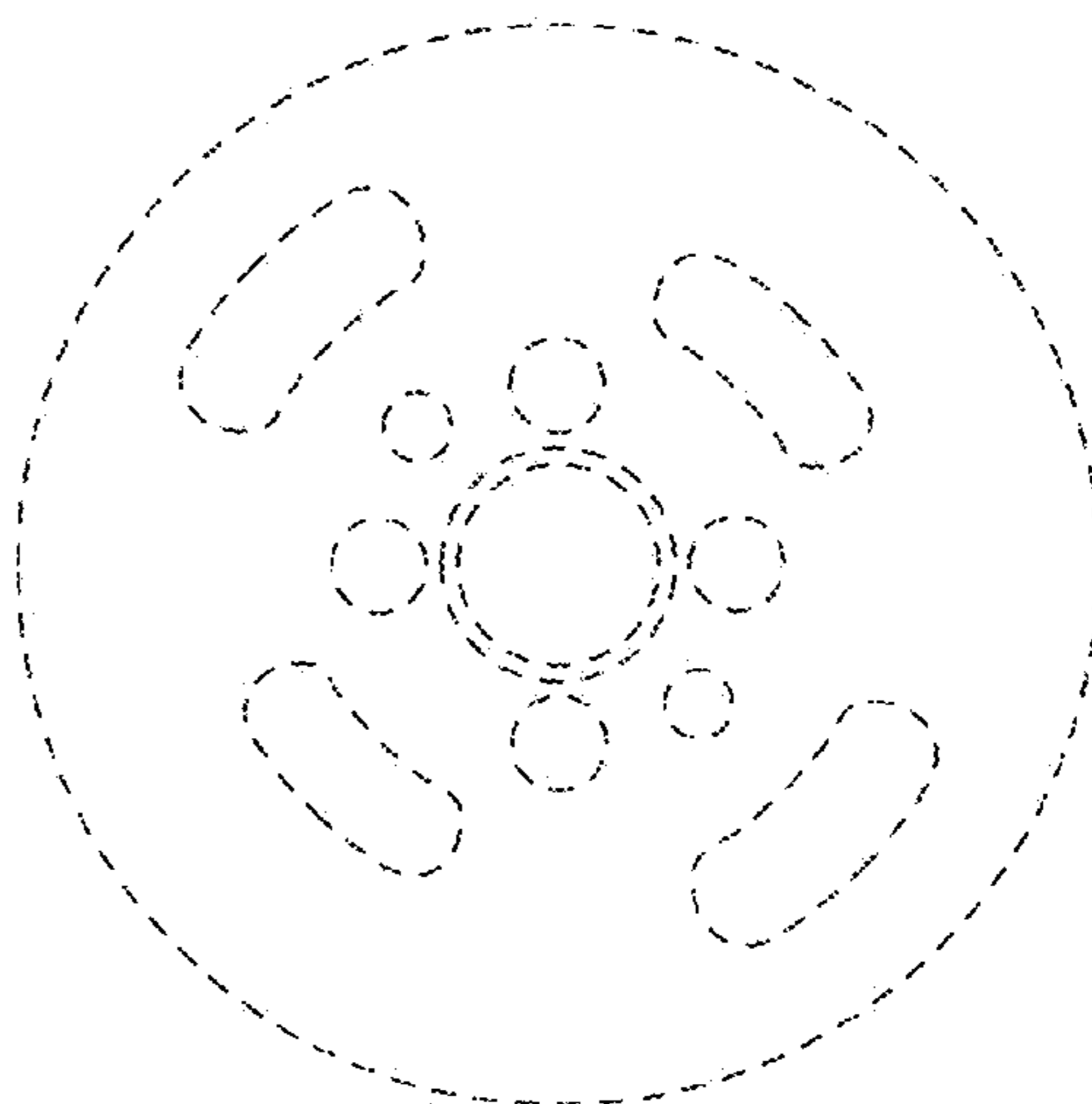


FIG. 7