



US00D566057S

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

(10) **Patent No.: US D566,057 S**

(45) **Date of Patent: ** Apr. 8, 2008**

(54) **LED CHIP**

2007/0085089 A1* 4/2007 Hsu 257/81
2007/0138585 A1* 6/2007 Hsin et al. 257/433

(75) Inventors: **John Edmond**, Cary, NC (US); **James Ibbetson**, Santa Barbara, CA (US); **Michael John Bergmann**, Chapel Hill, NC (US); **Amber Christine Salter**, Durham, NC (US); **David Todd Emerson**, Chapel Hill, NC (US); **Kevin Haberern**, Cary, NC (US)

OTHER PUBLICATIONS

Lumileds LED Die; Philips/Lumileds Light from Silicon Valley "LED Die," pp. 1-2, <http://www.lumileds.com/products/line.cm?lineid=_16> (2006).
Color photos Lumileds LEDs, 1 page, (for exam purposes, date is assumed to be before Dec. 21, 2006).
Image of Osram chip, 1 page, (prior to Dec. 29, 2005).
"Lumileds LED," 1 page, (Oct. 2-4, 2002).
SemiLEDS "Products", 2 pages, http://www.semileds.com/en_04product/asp (2006).

(73) Assignee: **Cree, Inc.**, Durham, NC (US)

* cited by examiner

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

Primary Examiner—Selina Sikder

(21) Appl. No.: **29/275,362**

(74) *Attorney, Agent, or Firm*—Myers Bigel Sibley & Sajovec, P.A.

(22) Filed: **Dec. 21, 2006**

(51) **LOC (8) Cl.** **13-03**

(57) **CLAIM**

(52) **U.S. Cl.** **D13/180**

(58) **Field of Classification Search** D13/180;
D26/2; 257/79, 80, 81, 88, 89, 95, 98, 99,
257/100; 313/483, 498, 500; 362/555, 800
See application file for complete search history.

The ornamental design for an LED chip, as shown and described.

DESCRIPTION

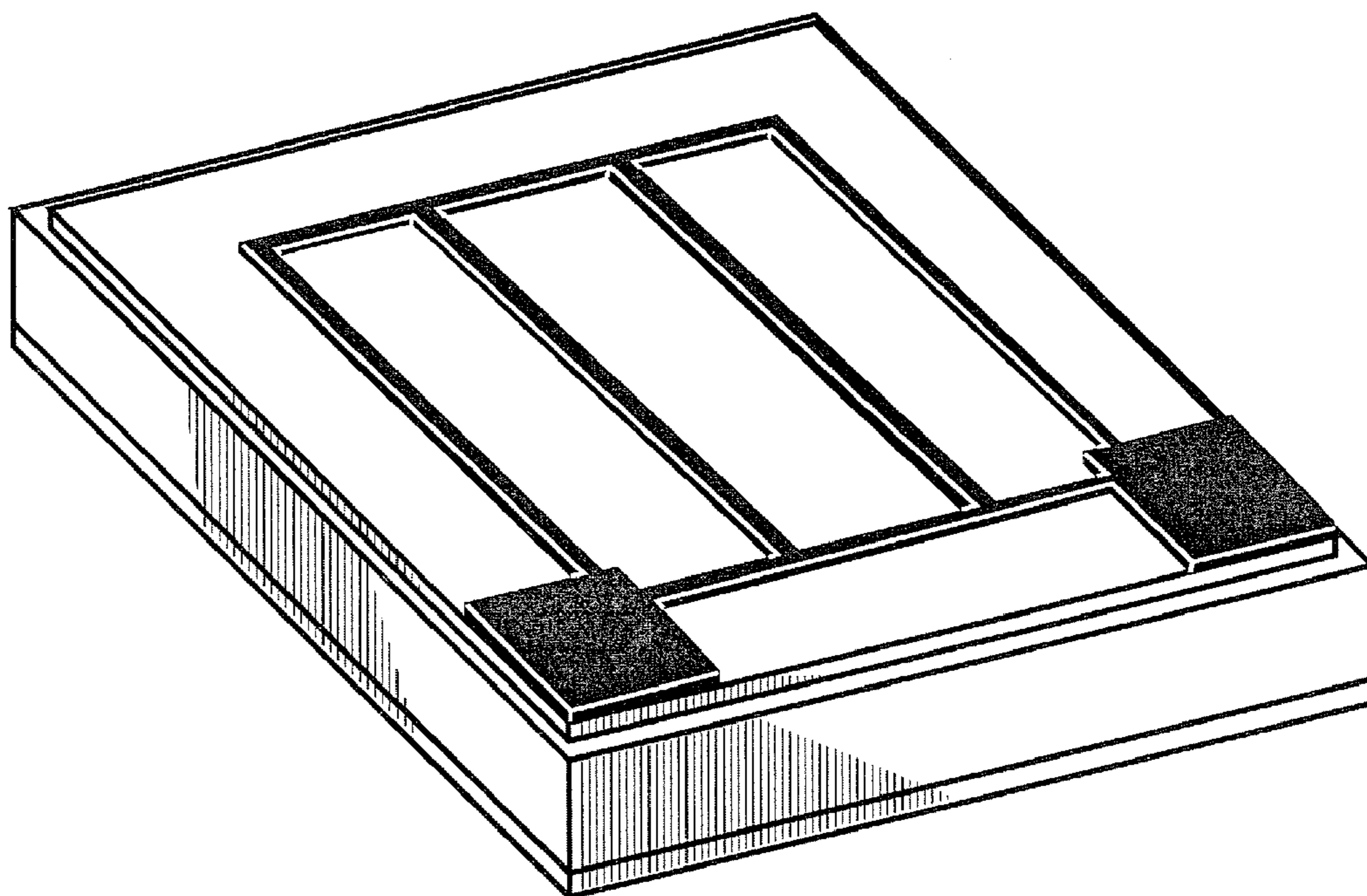
(56) **References Cited**

FIG. 1 is a top perspective view of a LED chip showing our design;
FIG. 2 is a top view thereof;
FIG. 3 is a first side view thereof;
FIG. 4 is a bottom view thereof;
FIG. 5 is a different side view thereof;
FIG. 6 is an end view thereof; and,
FIG. 7 is an opposing end view thereof.

U.S. PATENT DOCUMENTS

6,097,040 A * 8/2000 Morimoto et al. 257/91
6,255,129 B1 * 7/2001 Lin 438/26
6,518,598 B1 * 2/2003 Chen 257/91
6,847,052 B2 * 1/2005 Fan et al. 257/79
2005/0023539 A1 * 2/2005 Fujiwara et al. 257/79
2005/0067624 A1 * 3/2005 Steigerwald et al. 257/79
2006/0049422 A1 * 3/2006 Shoji 257/100
2006/0151800 A1 * 7/2006 Keong et al. 257/99
2006/0226437 A1 * 10/2006 Fujita et al. 257/98

1 Claim, 2 Drawing Sheets



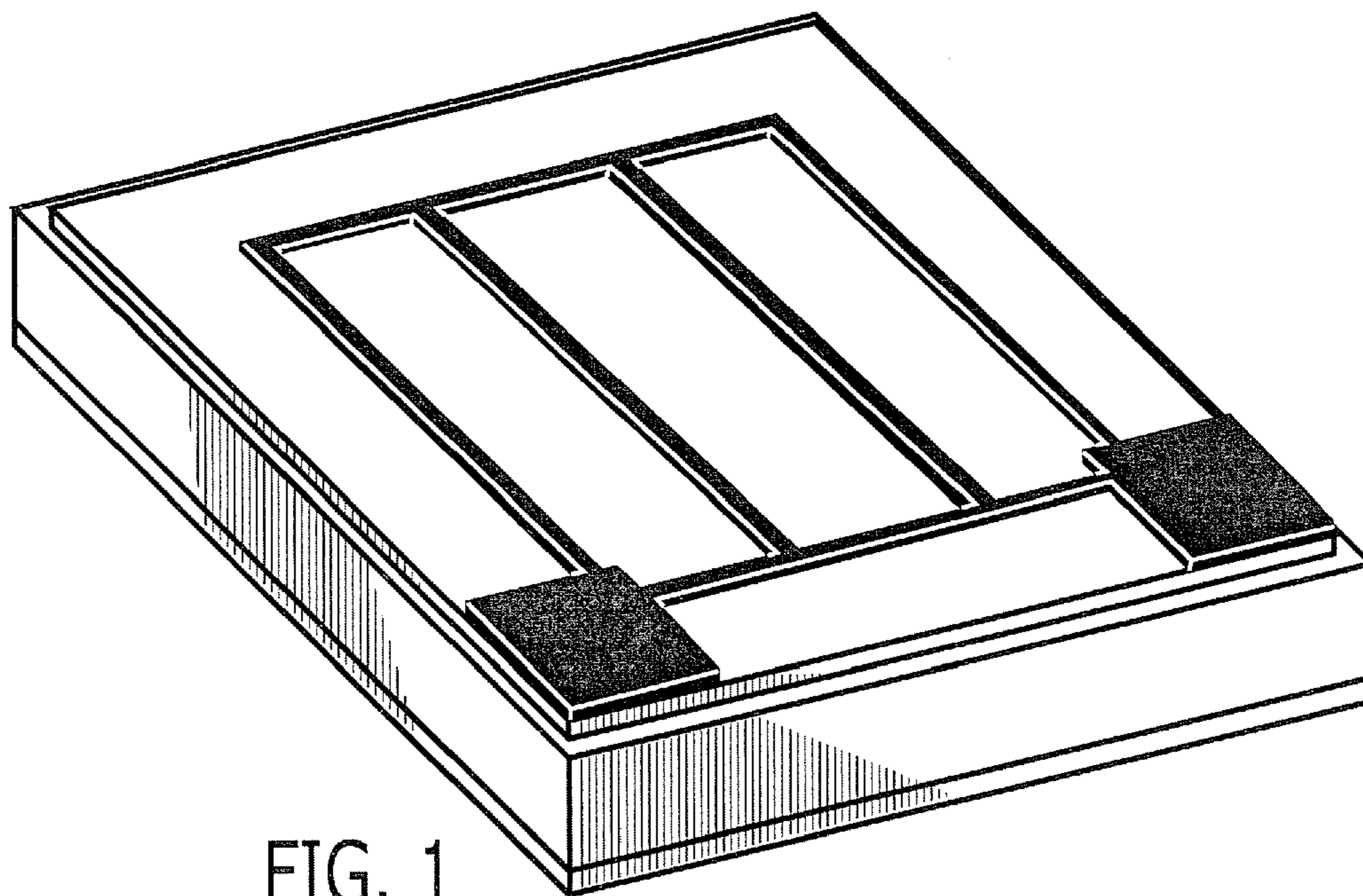


FIG. 1

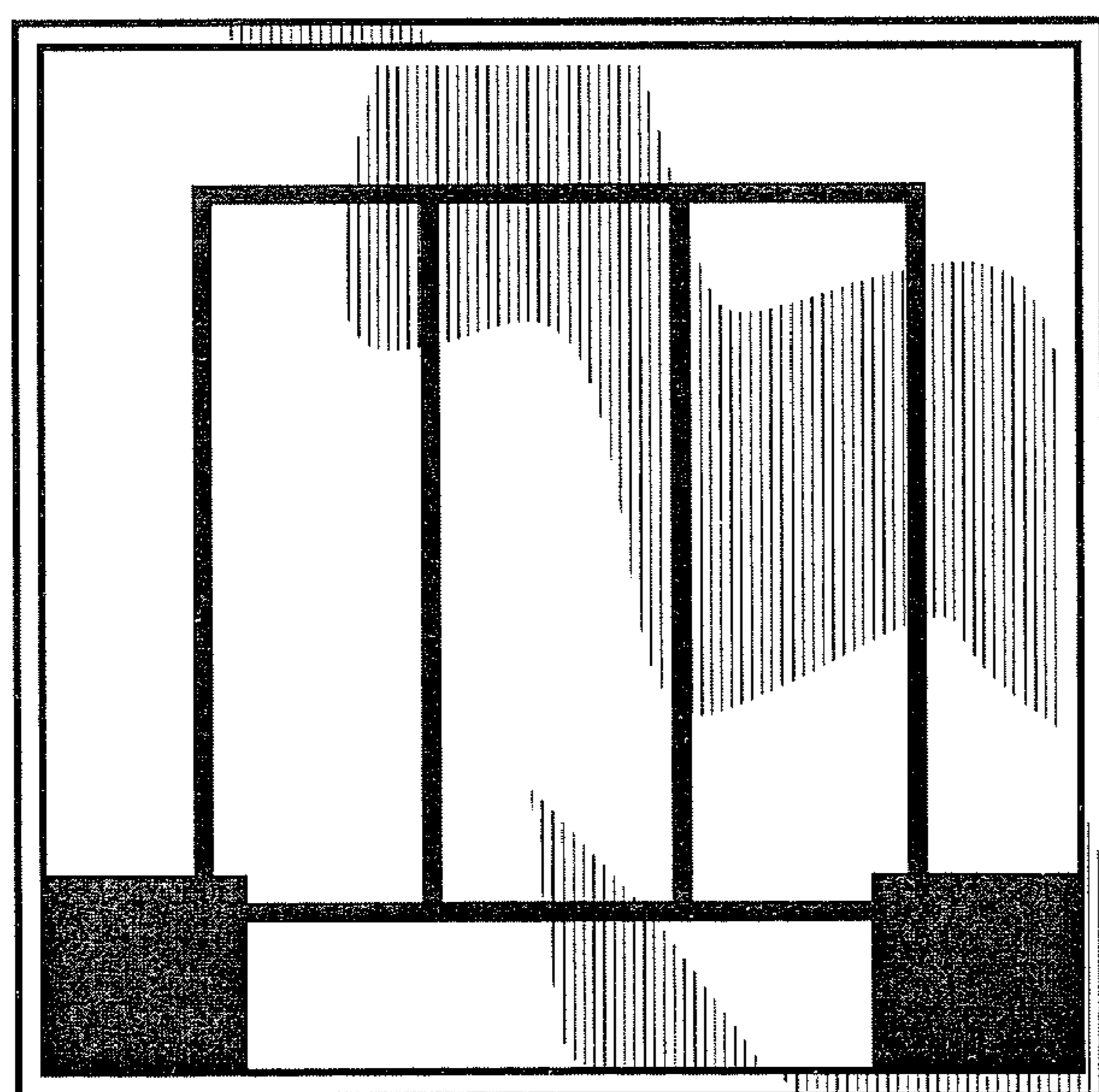


FIG. 2

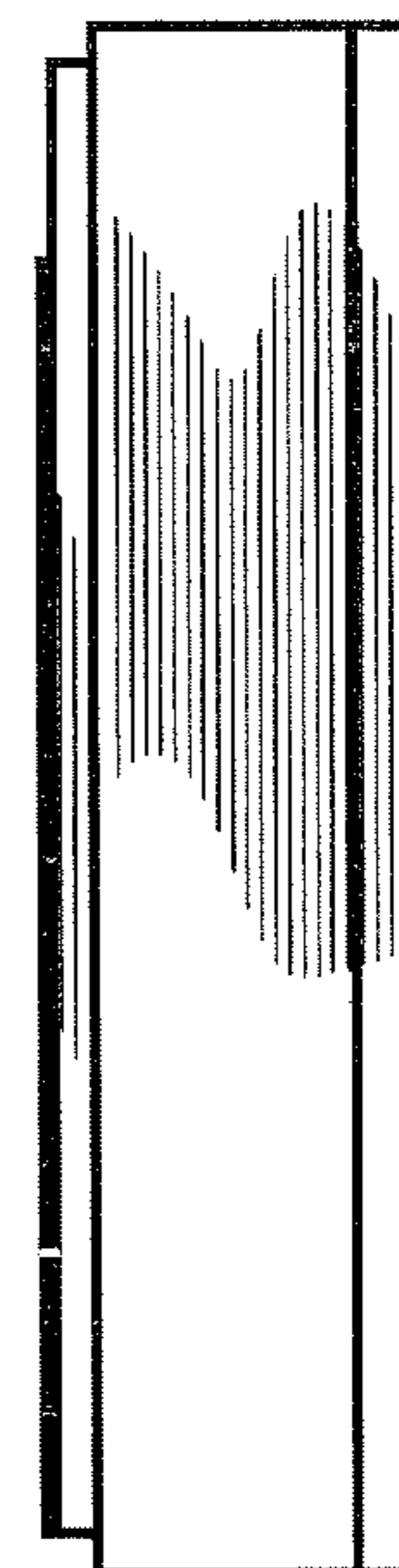


FIG. 3

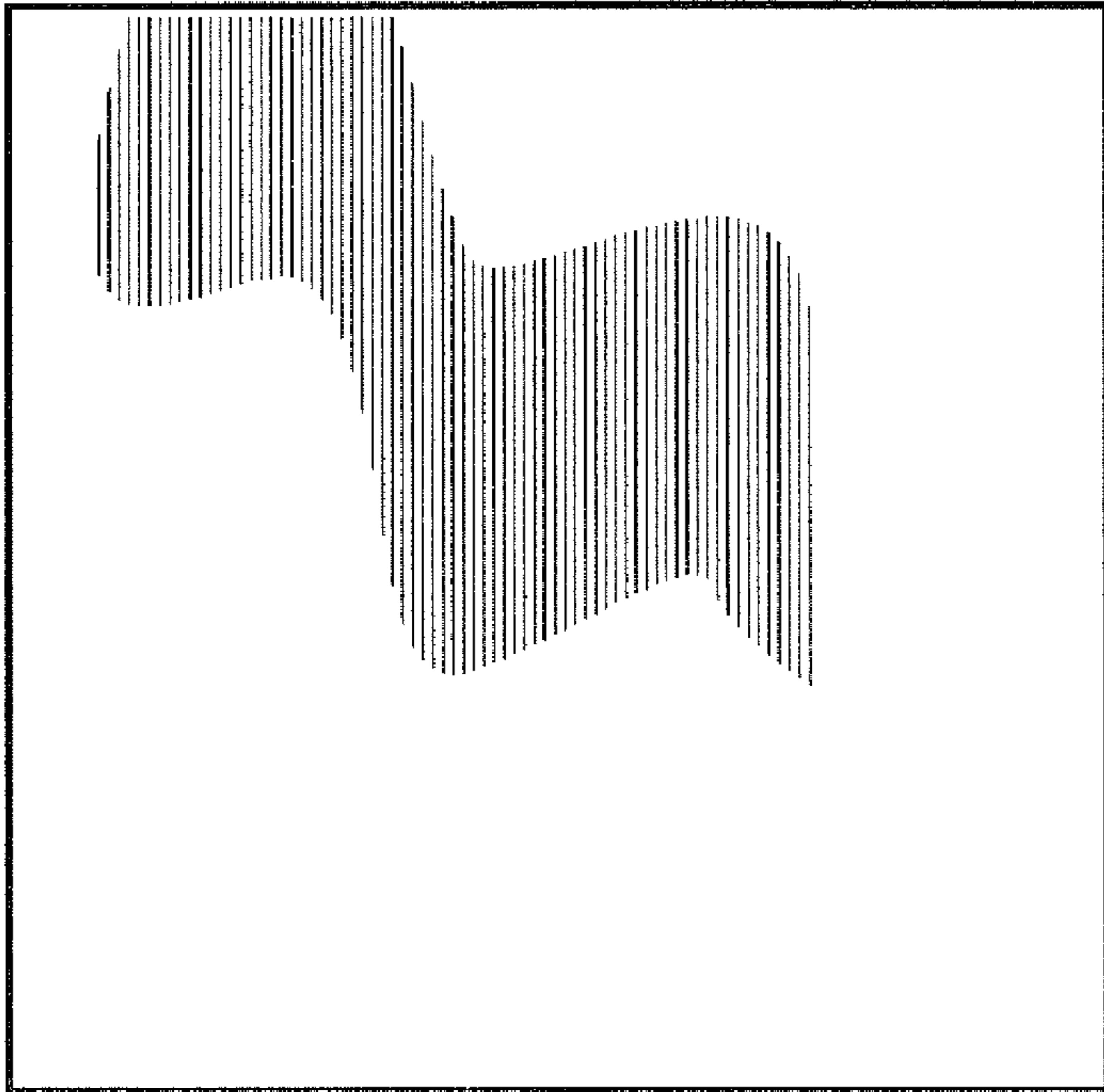


FIG. 4

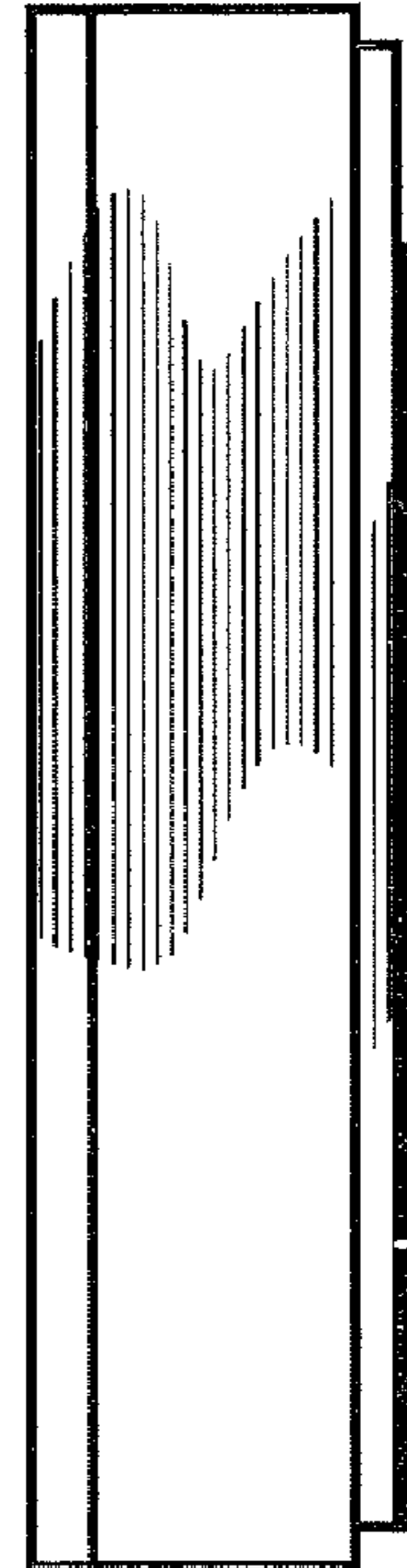


FIG. 5

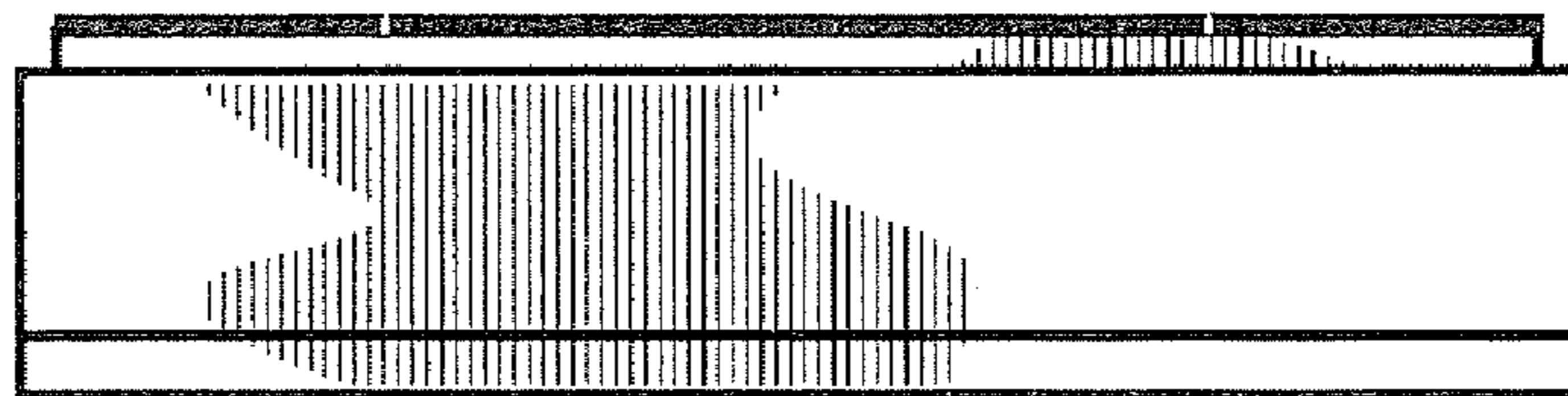


FIG. 6

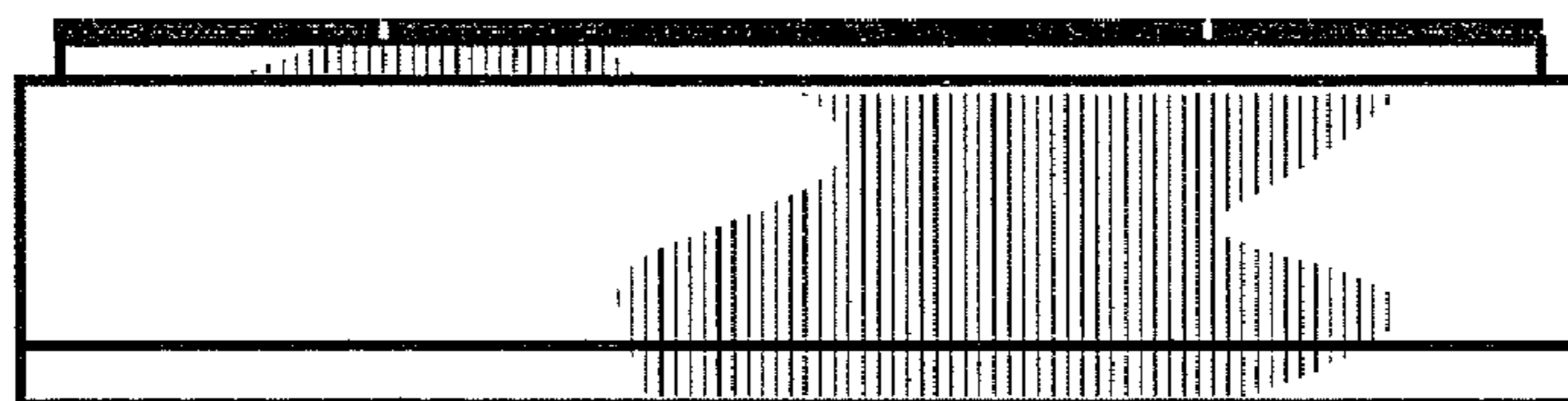


FIG. 7