

US00D496906S1

(12) **United States Design Patent** (10) **Patent No.:** **US D496,906 S**  
**Vinciarelli et al.** (45) **Date of Patent:** **\*\* Oct. 5, 2004**

(54) **POWER CONVERTER BODY**

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NH (US)

(73) Assignee: **VLT Corporation**, San Antonio, TX  
(US)

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

(21) Appl. No.: **29/180,324**

(22) Filed: **Apr. 22, 2003**

#### Related U.S. Application Data

(63) Continuation-in-part of application No. 10/303,613, filed on  
Nov. 25, 2002.

(51) **LOC (7) Cl.** ..... **13-02**

(52) **U.S. Cl.** ..... **D13/110**

(58) **Field of Search** ..... D13/101, 110,  
D13/112, 199; 307/150, 151; 340/473;  
363/132, 141, 146; 439/638, 668, 952

(56) **References Cited**

#### U.S. PATENT DOCUMENTS

|              |   |         |                    |       |         |
|--------------|---|---------|--------------------|-------|---------|
| D297,928 S   | * | 10/1988 | Harpley et al.     | ..... | D13/110 |
| D339,104 S   | * | 9/1993  | Jackson            | ..... | D13/110 |
| D340,222 S   | * | 10/1993 | Bedell             | ..... | D13/110 |
| D340,907 S   | * | 11/1993 | Smith et al.       | ..... | D13/110 |
| D344,928 S   | * | 3/1994  | Vinciarelli et al. | ..... | D13/110 |
| D363,056 S   | * | 10/1995 | Vinciarelli et al. | ..... | D13/110 |
| D371,110 S   | * | 6/1996  | Harris et al.      | ..... | D13/110 |
| D407,066 S   | * | 3/1999  | Renk               | ..... | D13/110 |
| 6,025,768 A  |   | 2/2000  | Martich            |       |         |
| 6,052,045 A  |   | 4/2000  | Martich            |       |         |
| 6,294,971 B1 |   | 9/2001  | Martich            |       |         |
| D466,076 S   | * | 11/2002 | Nagashima et al.   | ..... | D13/110 |
| D469,059 S   | * | 1/2003  | Ando et al.        | ..... | D13/110 |

#### OTHER PUBLICATIONS

Coto Technology B40 4-Channel RF Relays, printed from  
Coto Technology website at [http://www.cotorelya.com/  
html/reed\\_relay\\_b40\\_rf\\_seris.htm](http://www.cotorelya.com/html/reed_relay_b40_rf_seris.htm).

Coto Technology Product Selector Chart, printed from Coto  
Technology website at [http://www.cotorelay.com/html/  
reed\\_relay\\_dry\\_reed\\_switch\\_p.htm](http://www.cotorelay.com/html/reed_relay_dry_reed_switch_p.htm).

\* cited by examiner

*Primary Examiner*—Stella Reid

*Assistant Examiner*—Daniel Bui

(74) *Attorney, Agent, or Firm*—Fish & Richardson P.C.

(57) **CLAIM**

The ornamental design for a power converter body, as shown  
and described.

#### DESCRIPTION

For the first embodiment:

FIG. 1 is a perspective view of a first embodiment of a power  
converter body.

FIG. 2 is a top plan view thereof.

FIG. 3 is a bottom plan view thereof.

FIG. 4 is a right side elevational view thereof.

FIG. 5 is a left side elevational view thereof.

FIG. 6 is a front elevational view thereof.

FIG. 7 is a rear elevational view thereof.

FIG. 8 is a perspective view of the first embodiment of the  
power converter body with broken lines illustrating envi-  
ronment (e.g. electrical contact areas) that is not part of the  
design.

FIG. 9 is a top plan view thereof.

FIG. 10 is a bottom plan view thereof.

FIG. 11 is a right side elevational view thereof.

FIG. 12 is a left side elevational view thereof.

FIG. 13 is a front elevational view thereof.

FIG. 14 is a rear elevational view thereof.

FIG. 15 is a perspective view of the first embodiment of the  
power converter body with broken lines illustrating envi-  
ronment (e.g. a ball grid array) that is not part of the design.

FIG. 16 is a top plan view thereof.

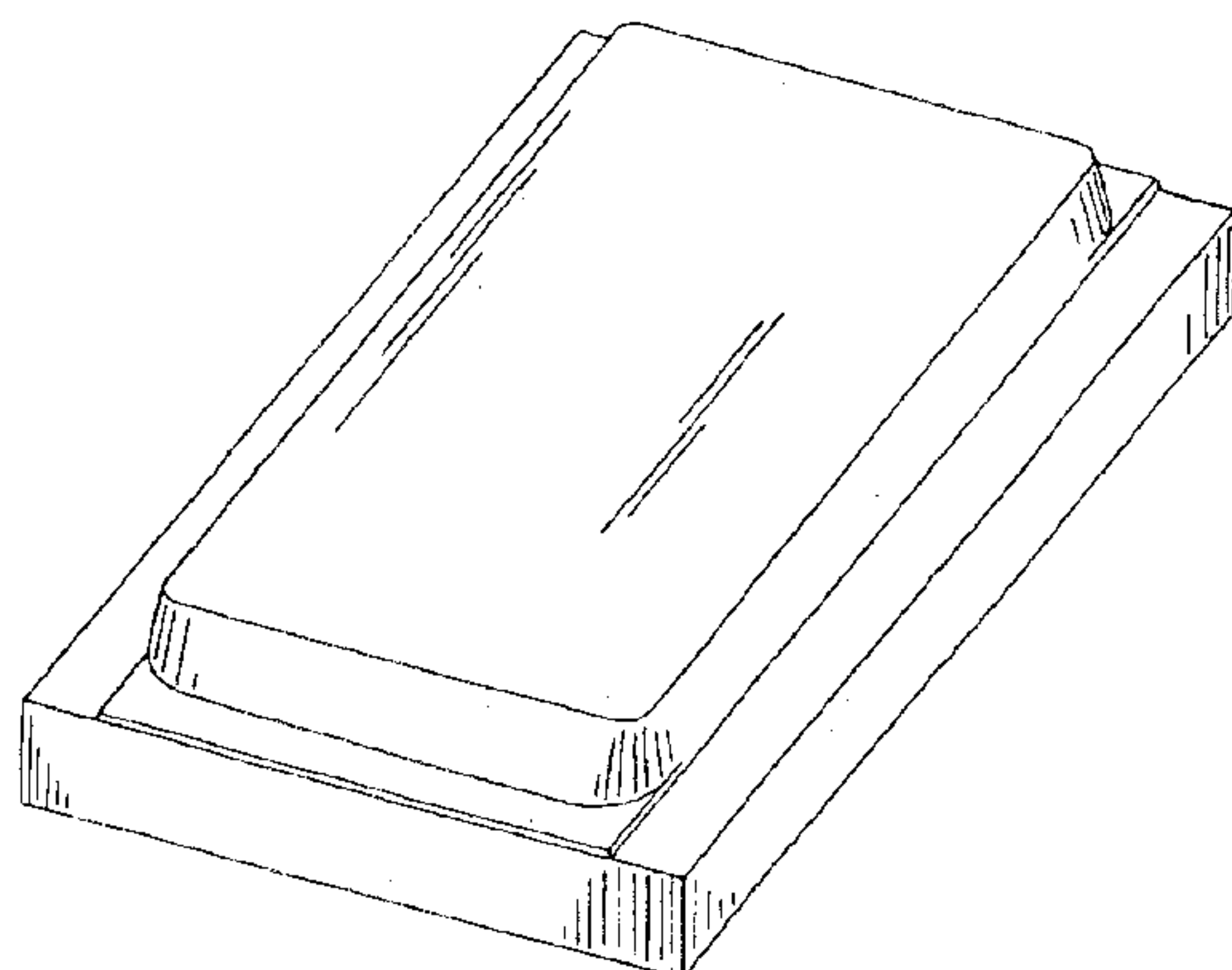
FIG. 17 is a bottom plan view thereof.

FIG. 18 is a right side elevational view thereof.

FIG. 19 is a left side elevational view thereof.

FIG. 20 is a front elevational view thereof.

FIG. 21 is a rear elevational view thereof.





For the second embodiment:

FIG. 22 is a perspective view of a second embodiment of a power converter body.

FIG. 23 is a top plan view thereof.

FIG. 24 is a bottom plan view thereof.

FIG. 25 is a right side elevational view thereof.

FIG. 26 is a left side elevational view thereof.

FIG. 27 is a front elevational view thereof.

FIG. 28 is a rear elevational view thereof.

FIG. 29 is a perspective view of the second embodiment of the power converter body with broken lines illustrating environment (e.g. electrical contact areas) that is not part of the design.

FIG. 30 is a top plan view thereof.

FIG. 31 is a bottom plan view thereof.

FIG. 32 is a right side elevational view thereof.

FIG. 33 is a left side elevational view thereof.

FIG. 34 is a front elevational view thereof.

FIG. 35 is a rear elevational view thereof.

FIG. 36 is a perspective view of the second embodiment of the power converter body with broken lines illustrating environment (e.g. a ball grid array) that is not part of the design.

FIG. 37 is a top plan view thereof.

FIG. 38 is a bottom plan view thereof.

FIG. 39 is a right side elevational view thereof.

FIG. 40 is a left side elevational view thereof.

FIG. 41 is a front elevational view thereof.

FIG. 42 is a rear elevational view thereof.

For a third embodiment:

FIG. 43 is a perspective view of a third embodiment of a power converter body.

FIG. 44 is a top plan view thereof.

FIG. 45 is a bottom plan view thereof.

FIG. 46 is a right side elevational view thereof.

FIG. 47 is a left side elevational view thereof.

FIG. 48 is a front elevational view thereof.

FIG. 49 is a rear elevational view thereof.

FIG. 50 is a perspective view of the third embodiment of the power converter body with broken lines illustrating environment (e.g. electrical contact areas) that is not part of the design.

FIG. 51 is a top plan view thereof.

FIG. 52 is a bottom plan view thereof.

FIG. 53 is a right side elevational view thereof.

FIG. 54 is a left side elevational view thereof.

FIG. 55 is a front elevational view thereof.

FIG. 56 is a rear elevational view thereof.

FIG. 57 is a perspective view of the third embodiment of the power converter body with broken lines illustrating environment (e.g. a ball grid array) that is not part of the design.

FIG. 58 is a top plan view thereof.

FIG. 59 is a bottom plan view thereof.

FIG. 60 is a right side elevational view thereof.

FIG. 61 is a left side elevational view thereof.

FIG. 62 is a front elevational view thereof.

FIG. 63 is a rear elevational view thereof.

For a fourth embodiment:

FIG. 64 is a perspective view of a fourth embodiment of a power converter body.

FIG. 65 is a top plan view thereof.

FIG. 66 is a bottom plan view thereof.

FIG. 67 is a right side elevational view thereof.

FIG. 68 is a left side elevational view thereof.

FIG. 69 is a front elevational view thereof.

FIG. 70 is a rear elevational view thereof.

FIG. 71 is a perspective view of the fourth embodiment of the power converter body with broken lines illustrating environment (e.g. electrical contact areas) that is not part of the design.

FIG. 72 is a top plan view thereof.

FIG. 73 is a bottom plan view thereof.

FIG. 74 is a right side elevational view thereof.

FIG. 75 is a left side elevational view thereof.

FIG. 76 is a front elevational view thereof.

FIG. 77 is a rear elevational view thereof.

FIG. 78 is a perspective view of the fourth embodiment of the power converter body with broken lines illustrating environment (e.g. a ball grid array) that is not part of the design.

FIG. 79 is a top plan view thereof.

FIG. 80 is a bottom plan view thereof.

FIG. 81 is a right side elevational view thereof.

FIG. 82 is a left side elevational view thereof.

FIG. 83 is a front elevational view thereof.

FIG. 84 is a rear elevational view thereof.

For the fifth embodiment:

FIG. 85 is a perspective view of a fifth embodiment of a power converter body.

FIG. 86 is a top plan view thereof.

FIG. 87 is a bottom plan view thereof.

FIG. 88 is a right side elevational view thereof.

FIG. 89 is a left side elevational view thereof.

FIG. 90 is a front elevational view thereof.

FIG. 91 is a rear elevational view thereof.

FIG. 92 is a perspective view of the fifth embodiment of the power converter body with broken lines illustrating environment (e.g. electrical contact areas) that is not part of the design.

FIG. 93 is a top plan view thereof.

FIG. 94 is a bottom plan view thereof.

FIG. 95 is a right side elevational view thereof.

FIG. 96 is a left side elevational view thereof.

FIG. 97 is a front elevational view thereof.

FIG. 98 is a rear elevational view thereof.

FIG. 99 is a perspective view of the fifth embodiment of the power converter body with broken lines illustrating environment (e.g. a ball grid array) that is not part of the design.

FIG. 100 is a top plan view thereof.

FIG. 101 is a bottom plan view thereof.

FIG. 102 is a right side elevational view thereof.

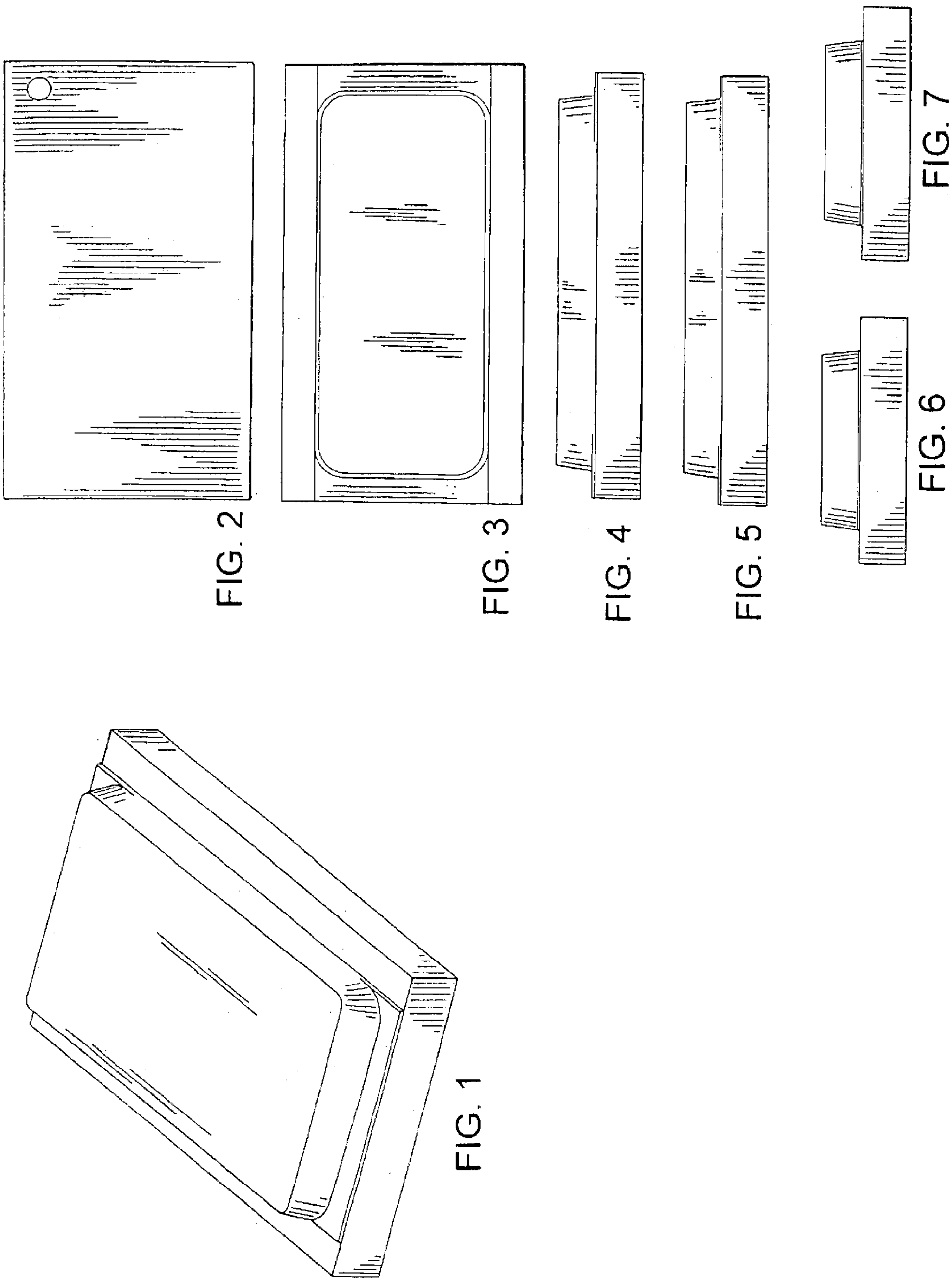
FIG. 103 is a left side elevational view thereof.

FIG. 104 is a front elevational view thereof.

FIG. 105 is a rear elevational view thereof; and,

FIG. 106 is a perspective view of the first embodiment of the power converter body with broken lines illustrating an alternative environment (e.g. a second ball grid array) that is not part of the design.







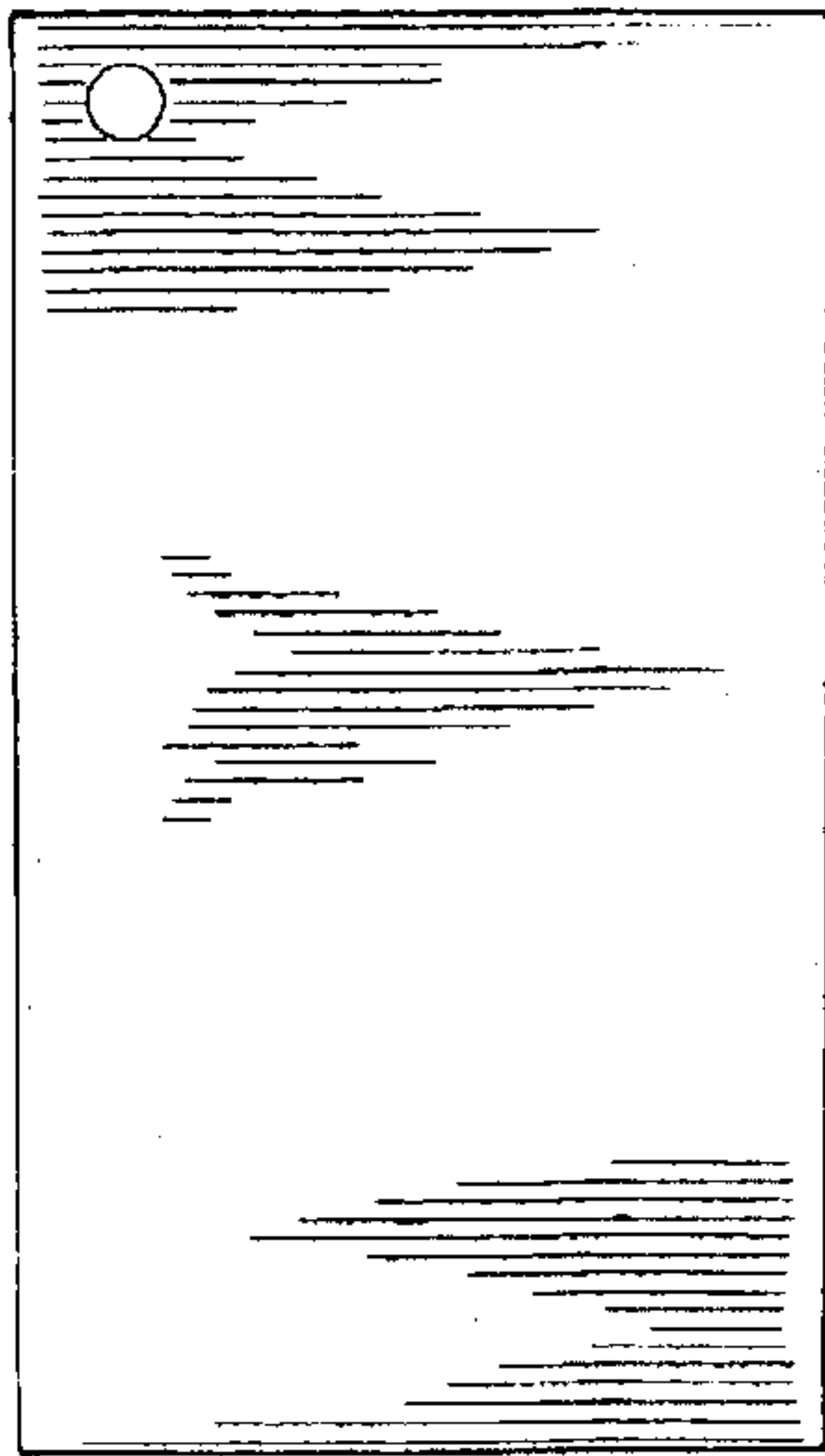


FIG. 9

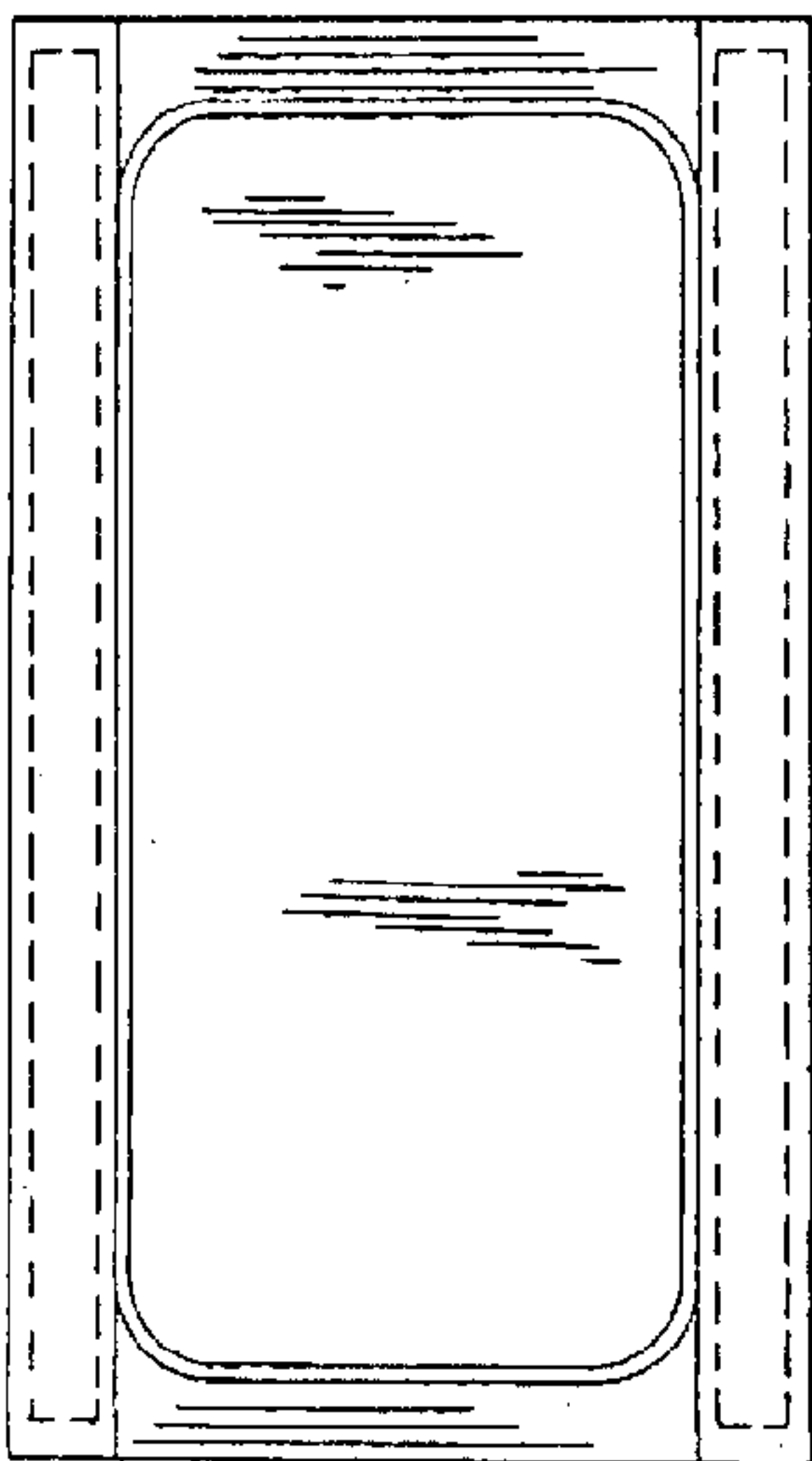


FIG. 10

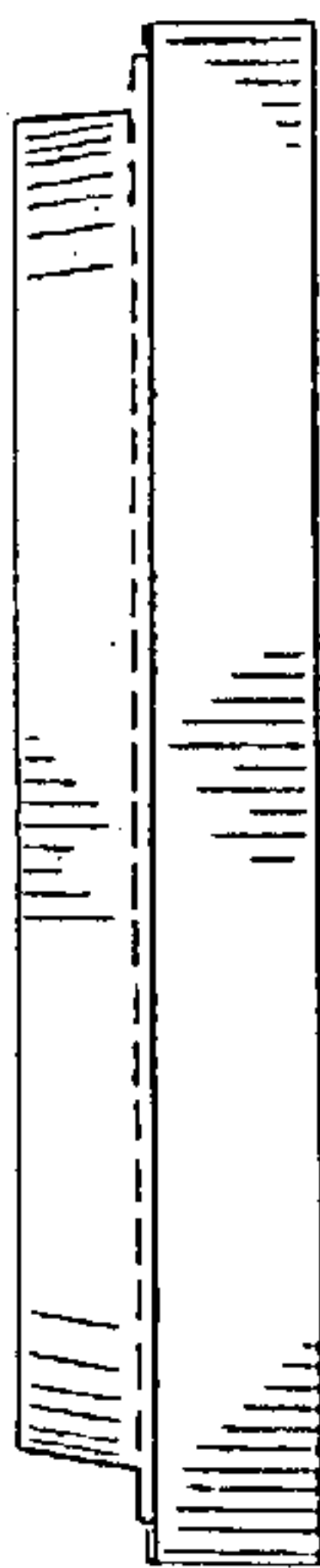


FIG. 11

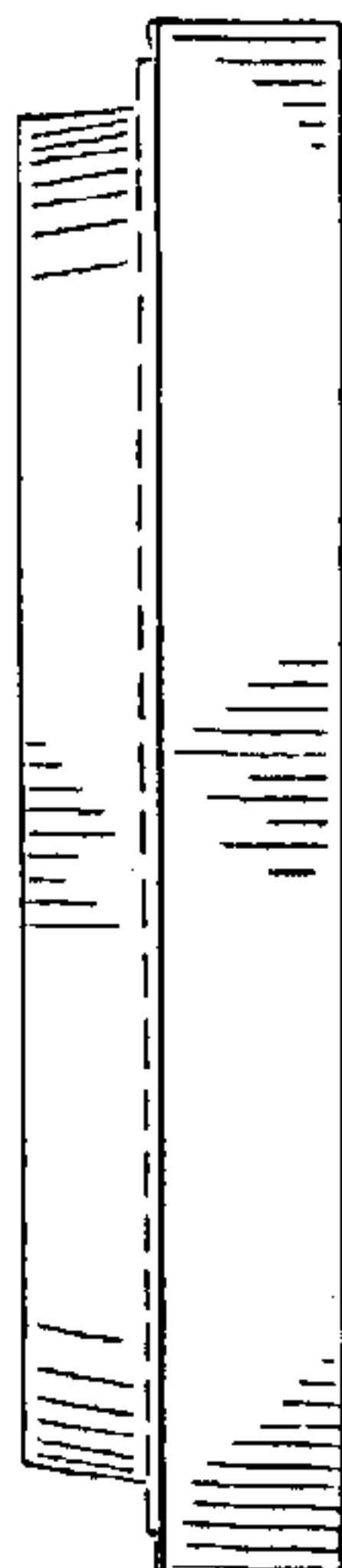


FIG. 12



FIG. 13

FIG. 14

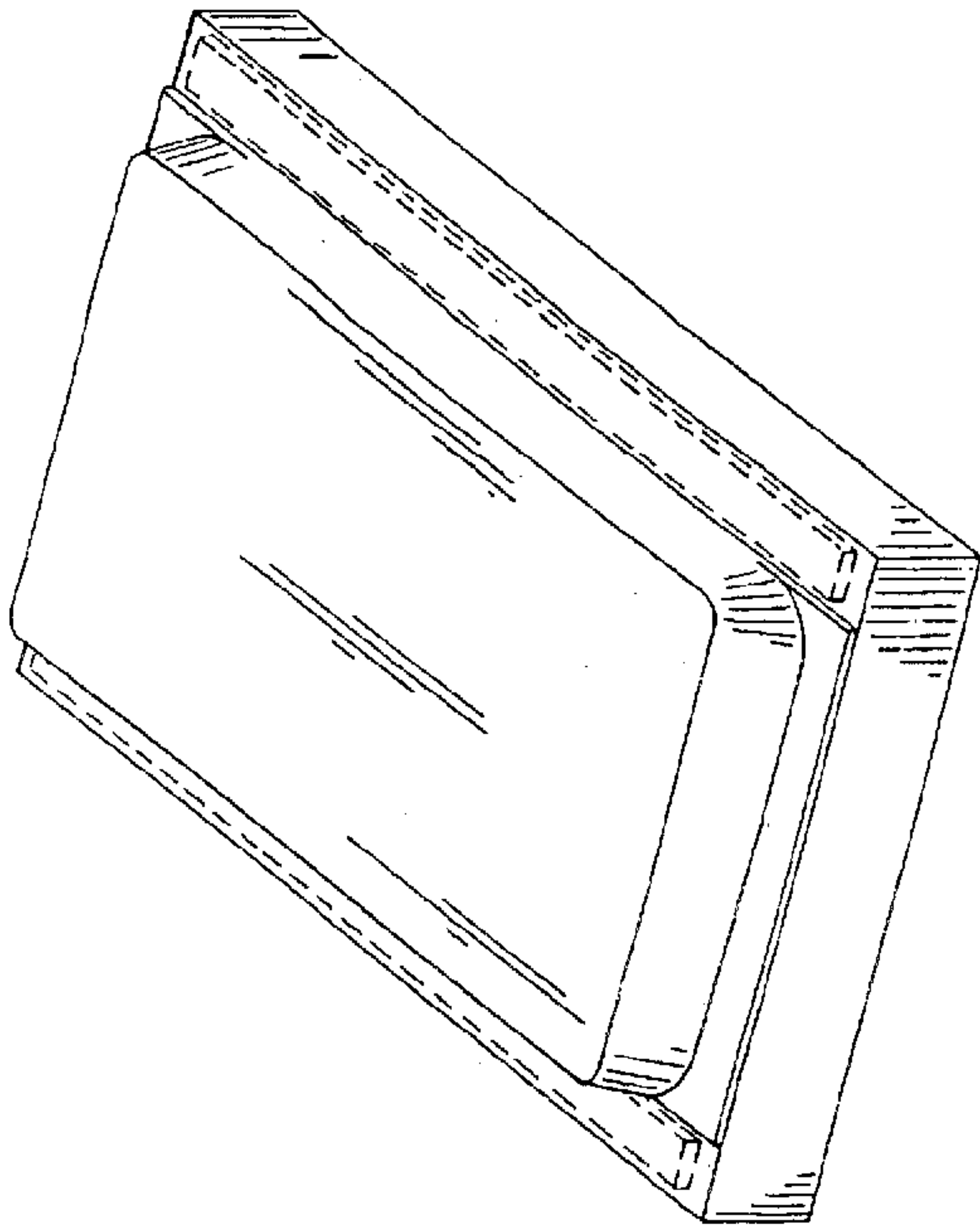


FIG. 8



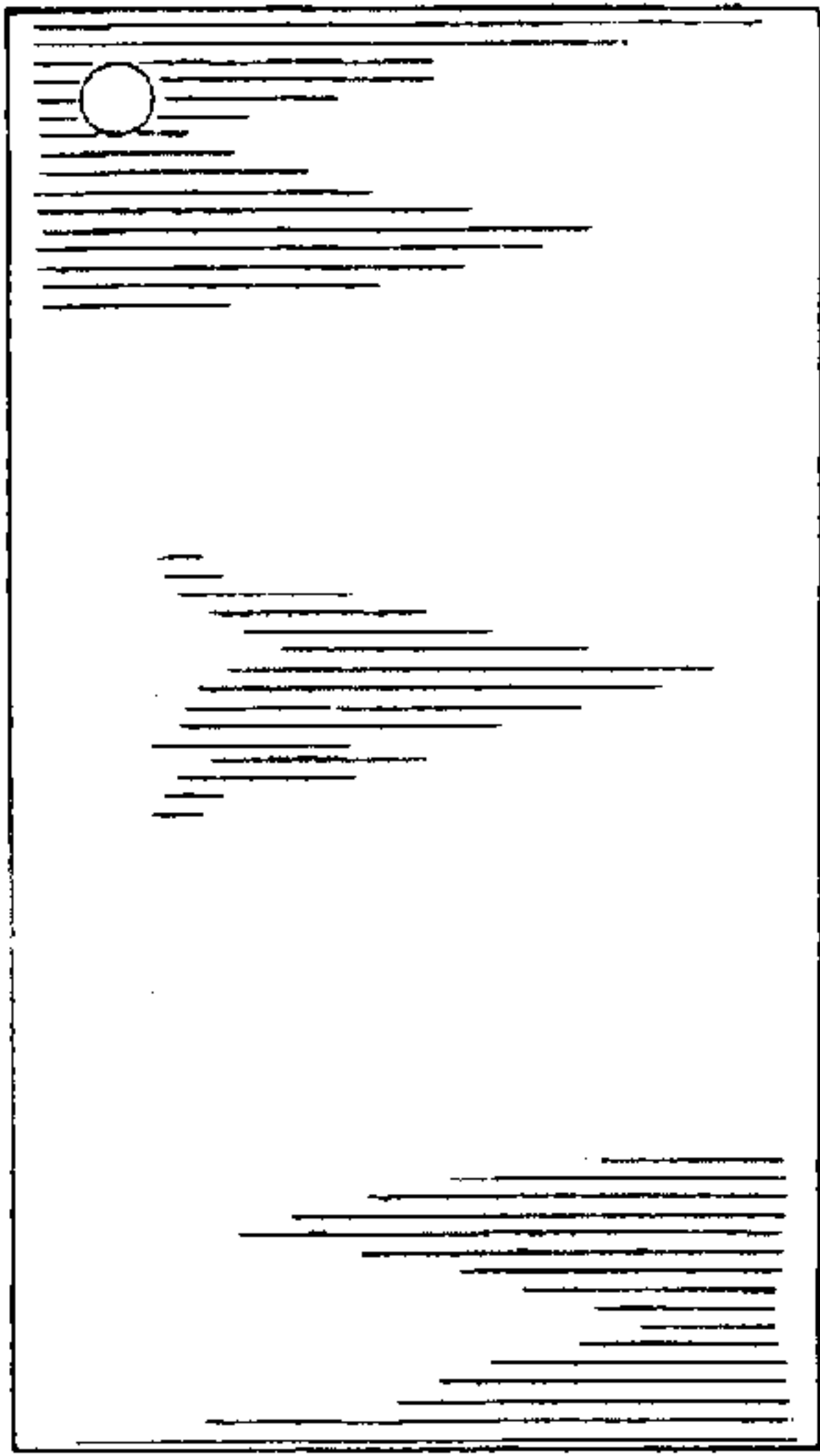


FIG. 16

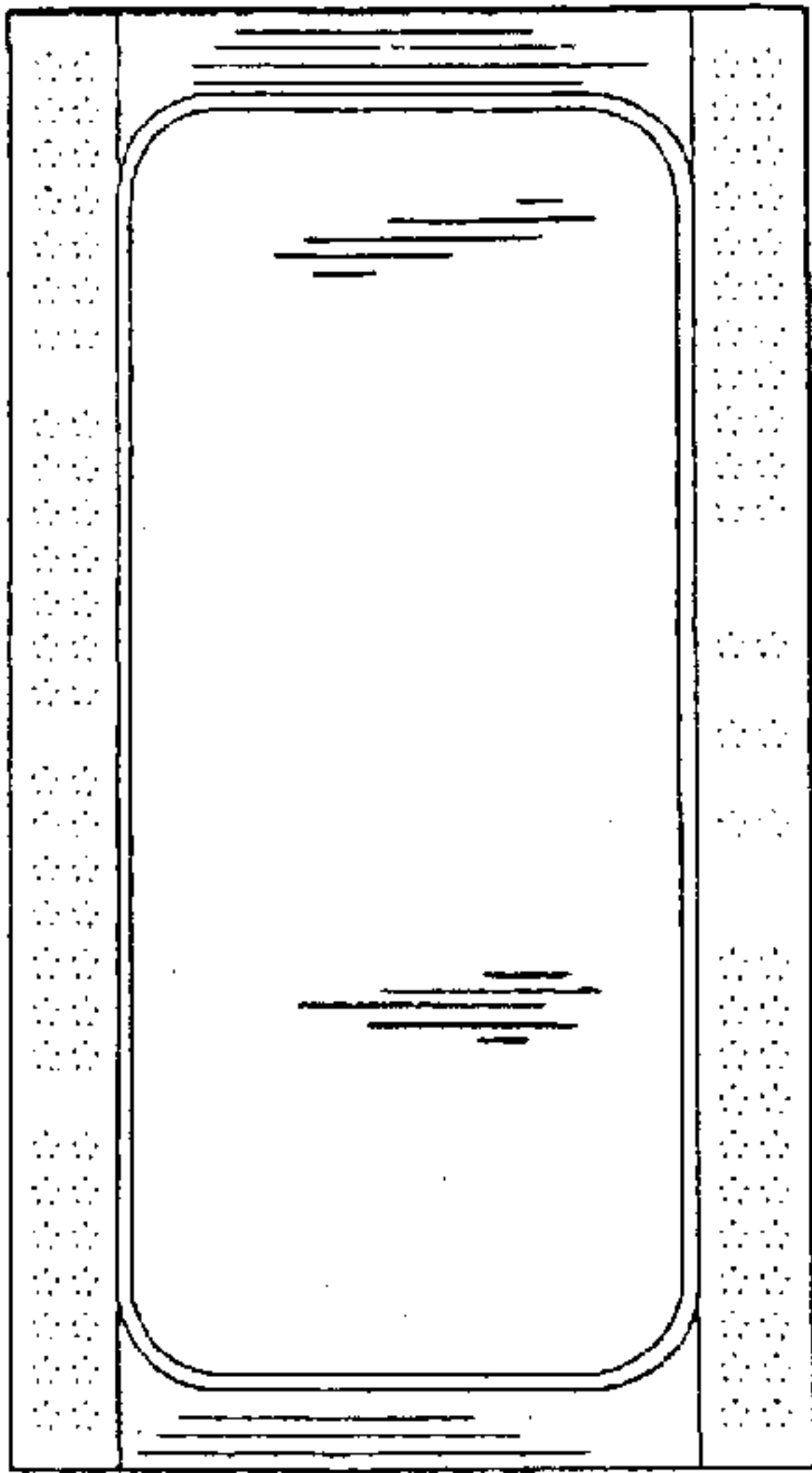


FIG. 17

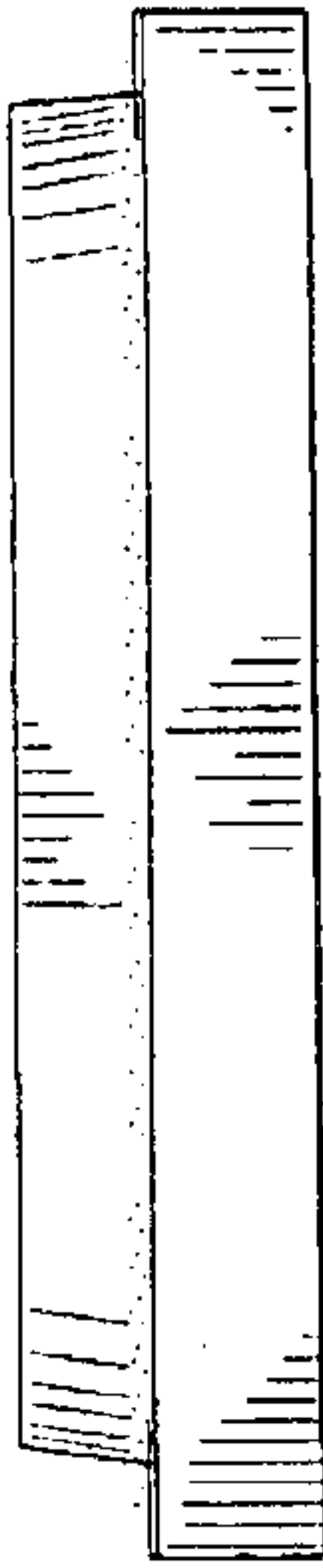


FIG. 18



FIG. 19



FIG. 20

FIG. 21

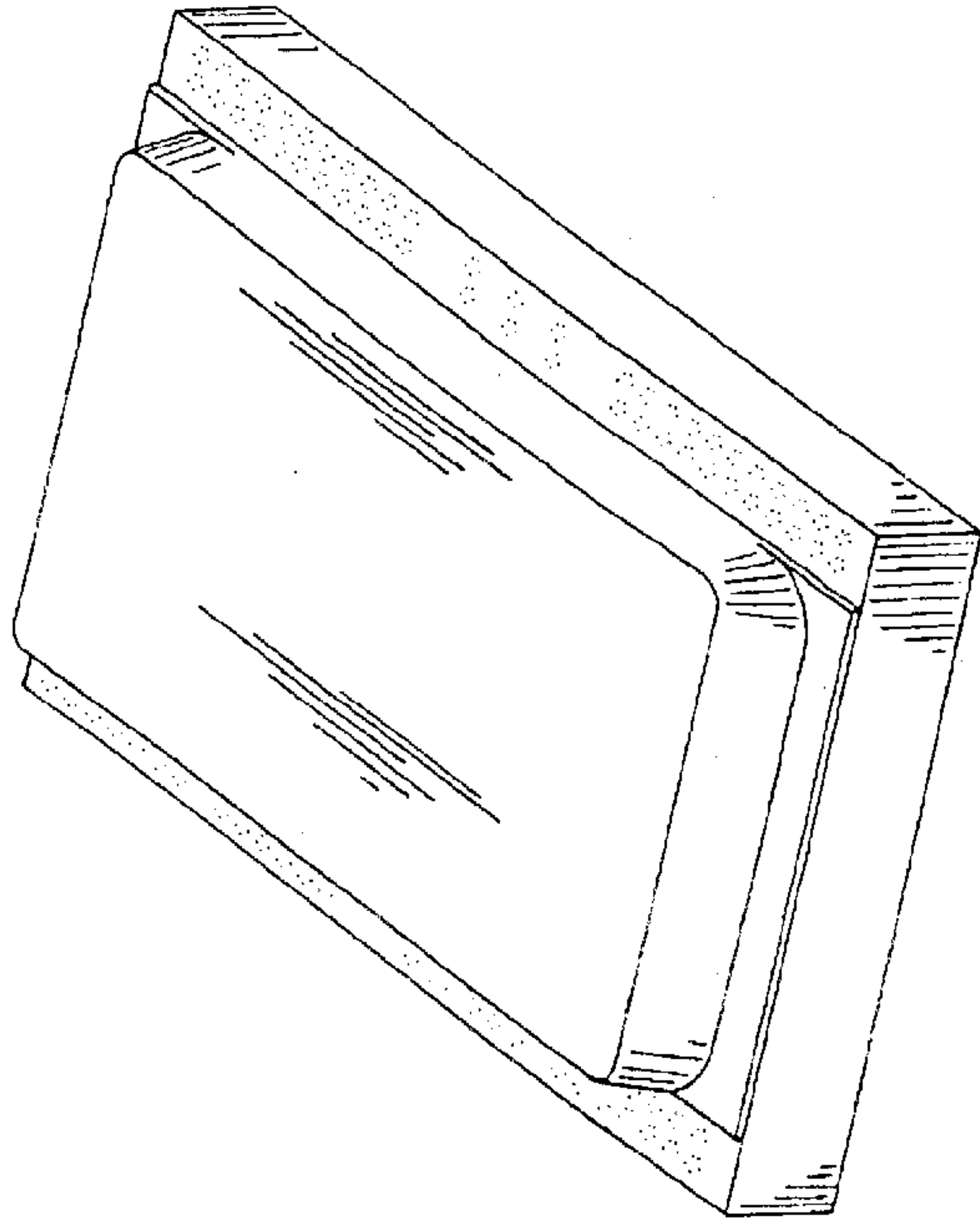


FIG. 15



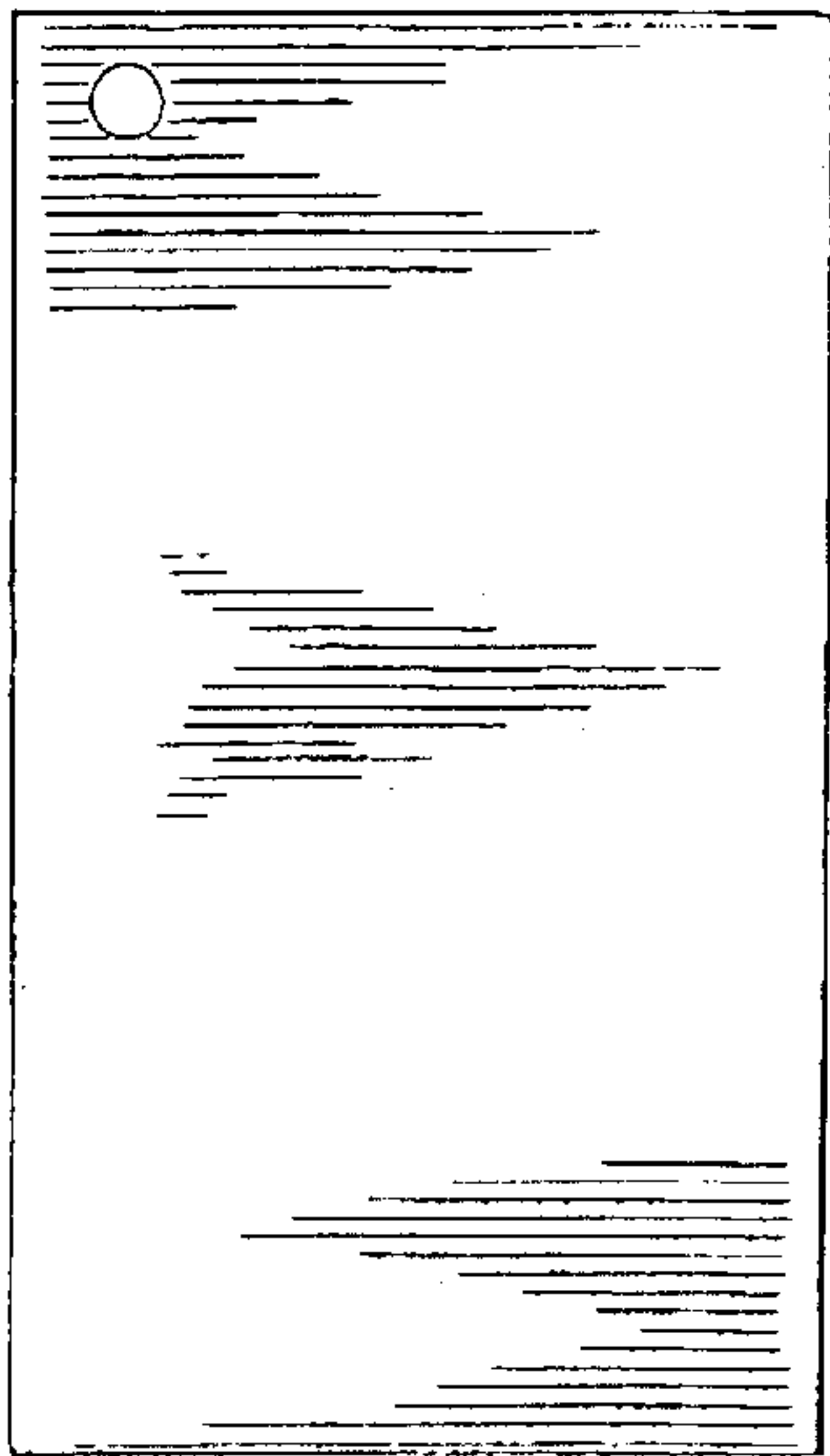


FIG. 23

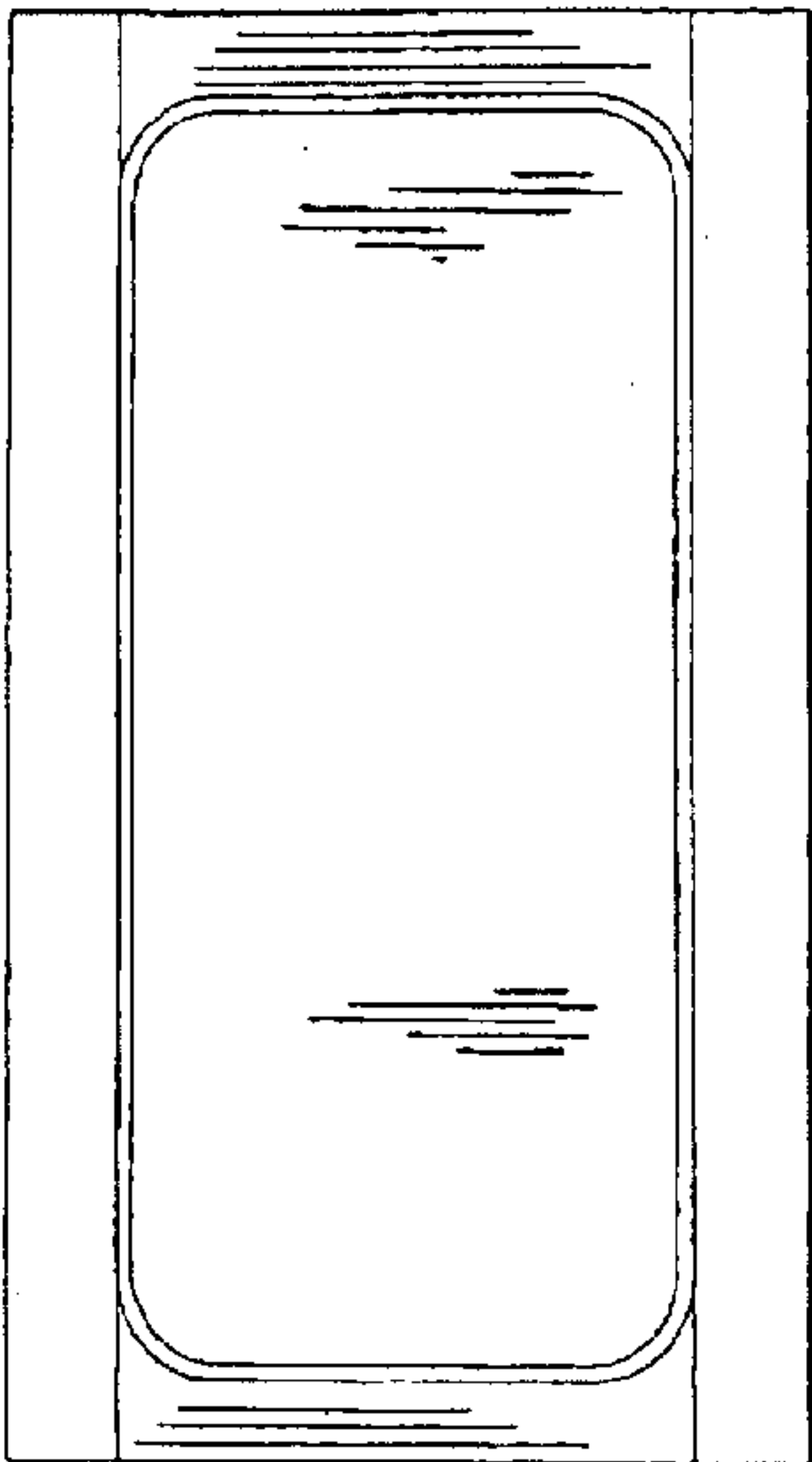


FIG. 24



FIG. 25

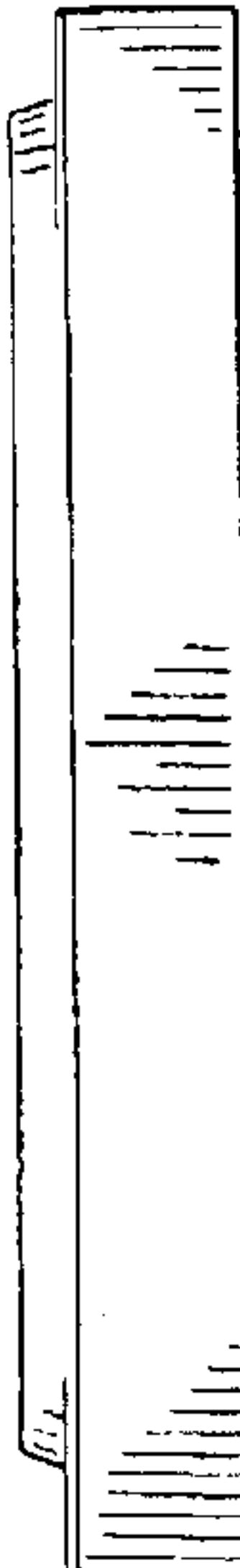


FIG. 26

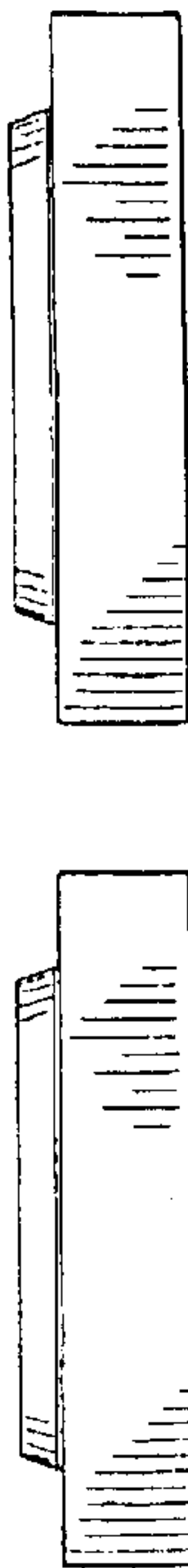


FIG. 27

FIG. 28

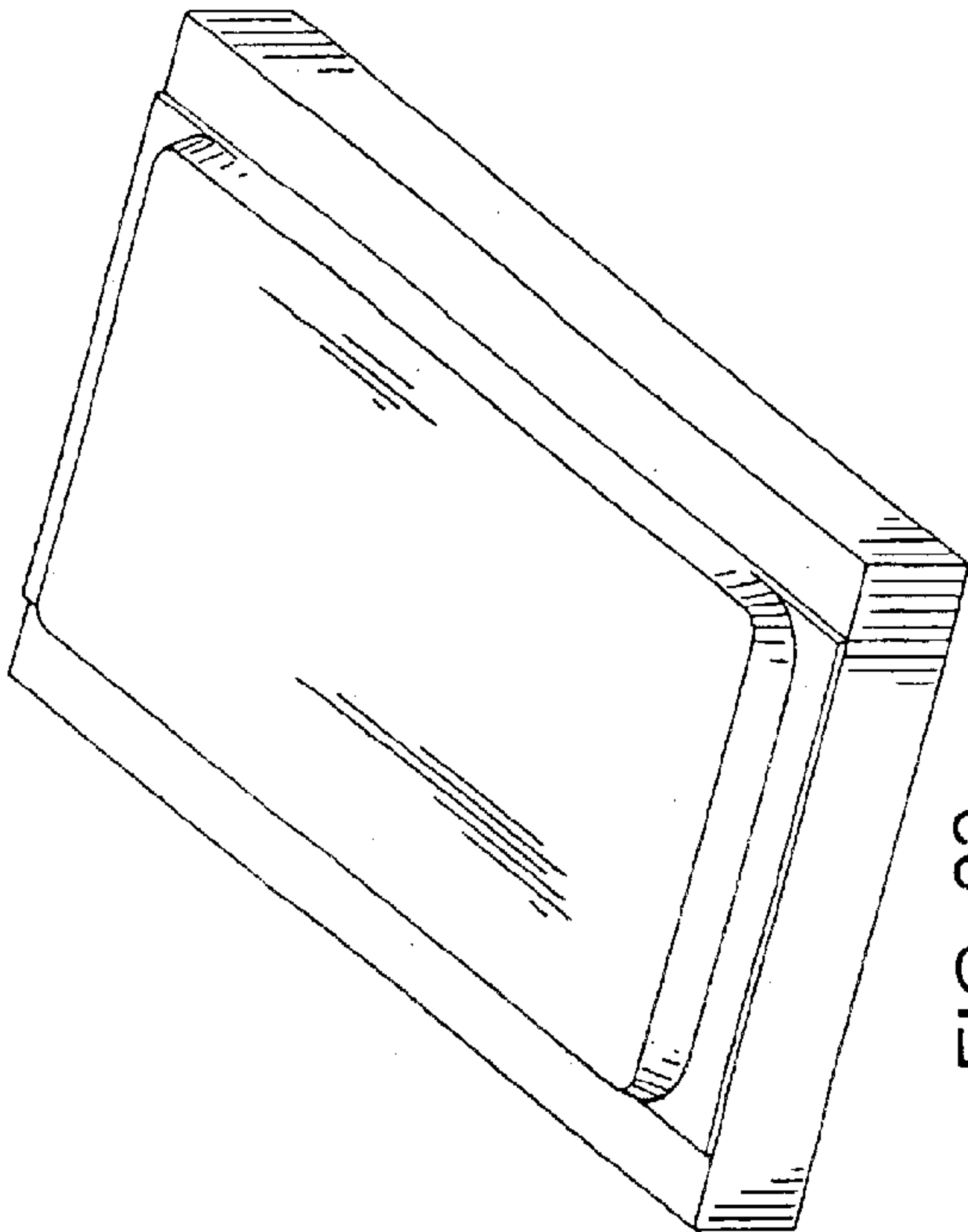


FIG. 22



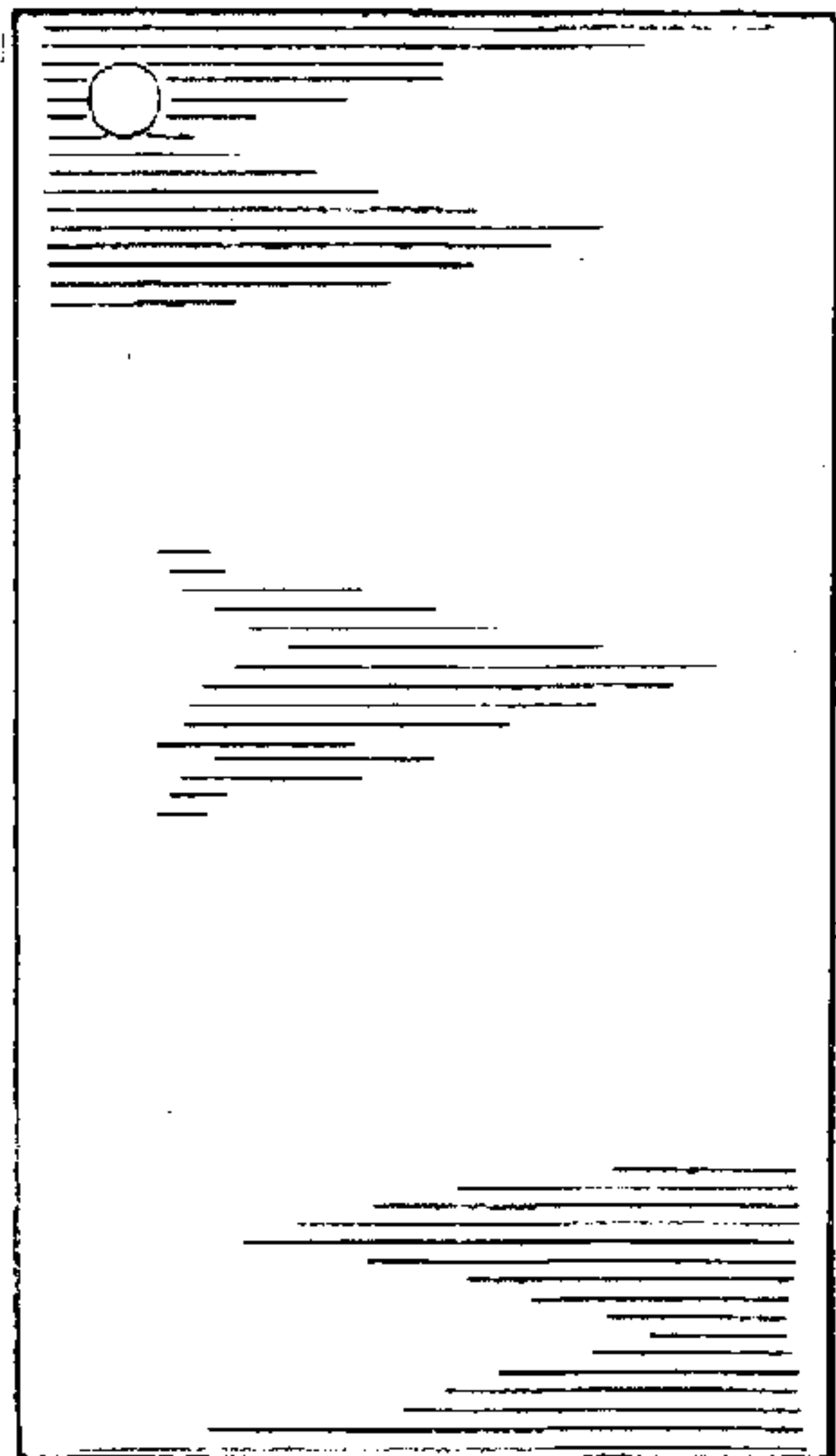


FIG. 30

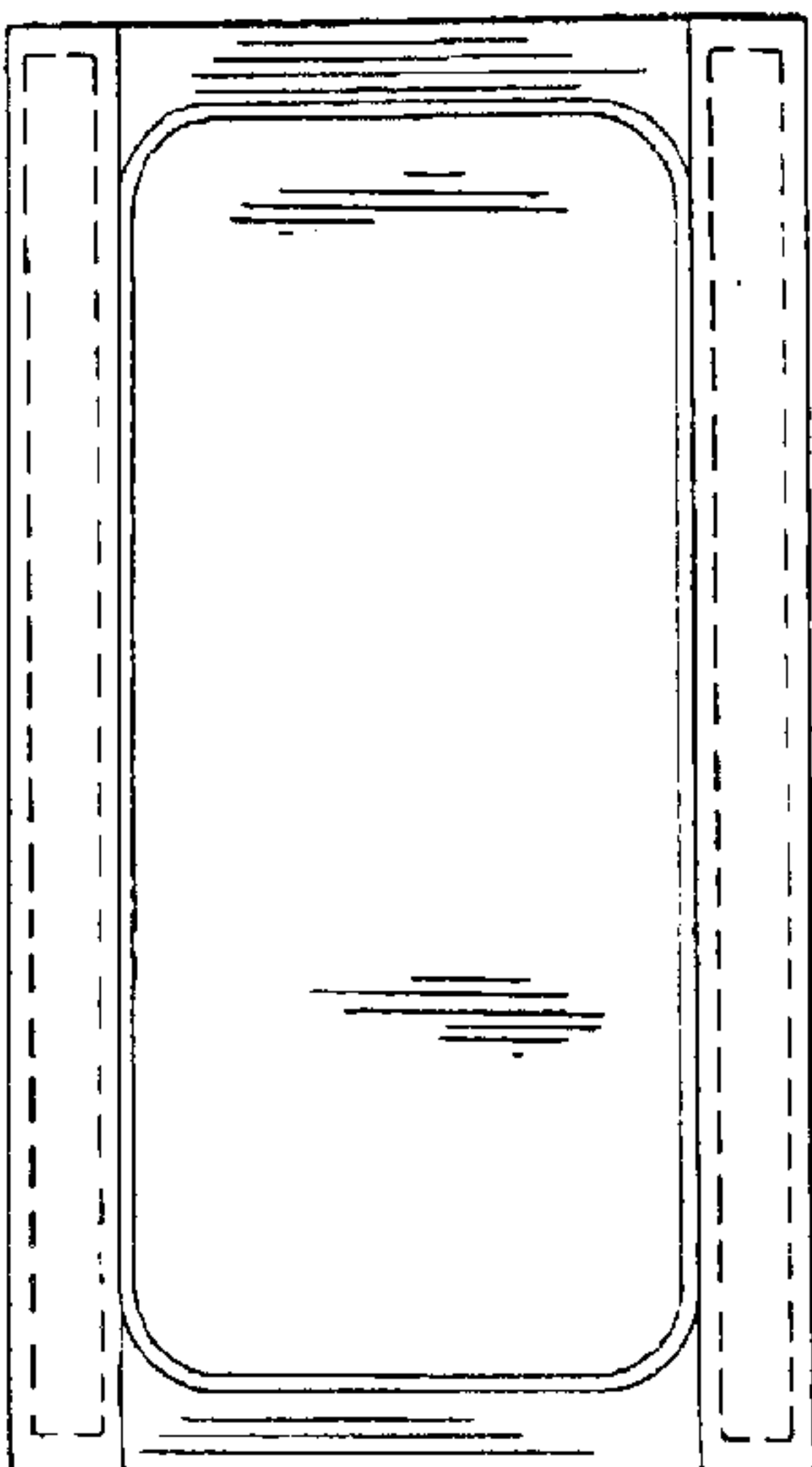


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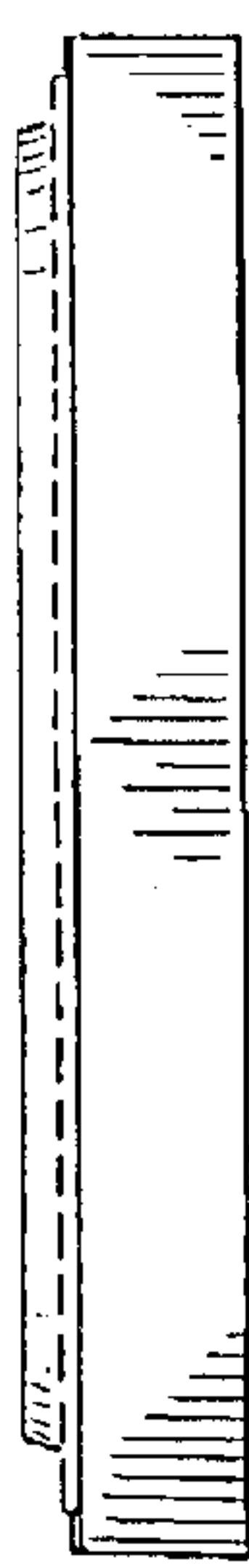


FIG. 32



FIG. 33

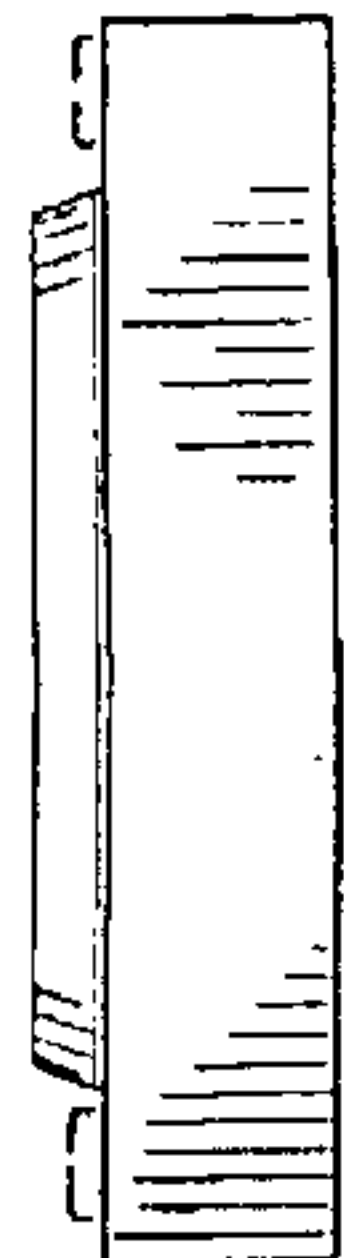


FIG. 34

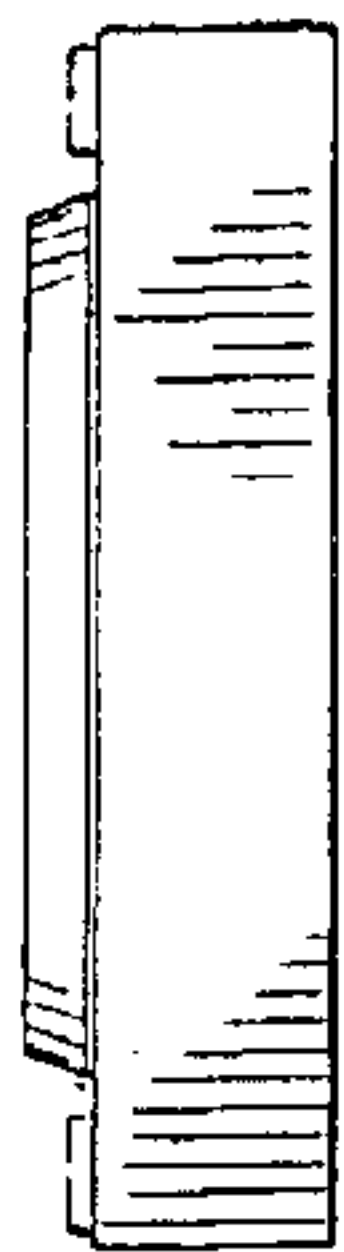


FIG. 35

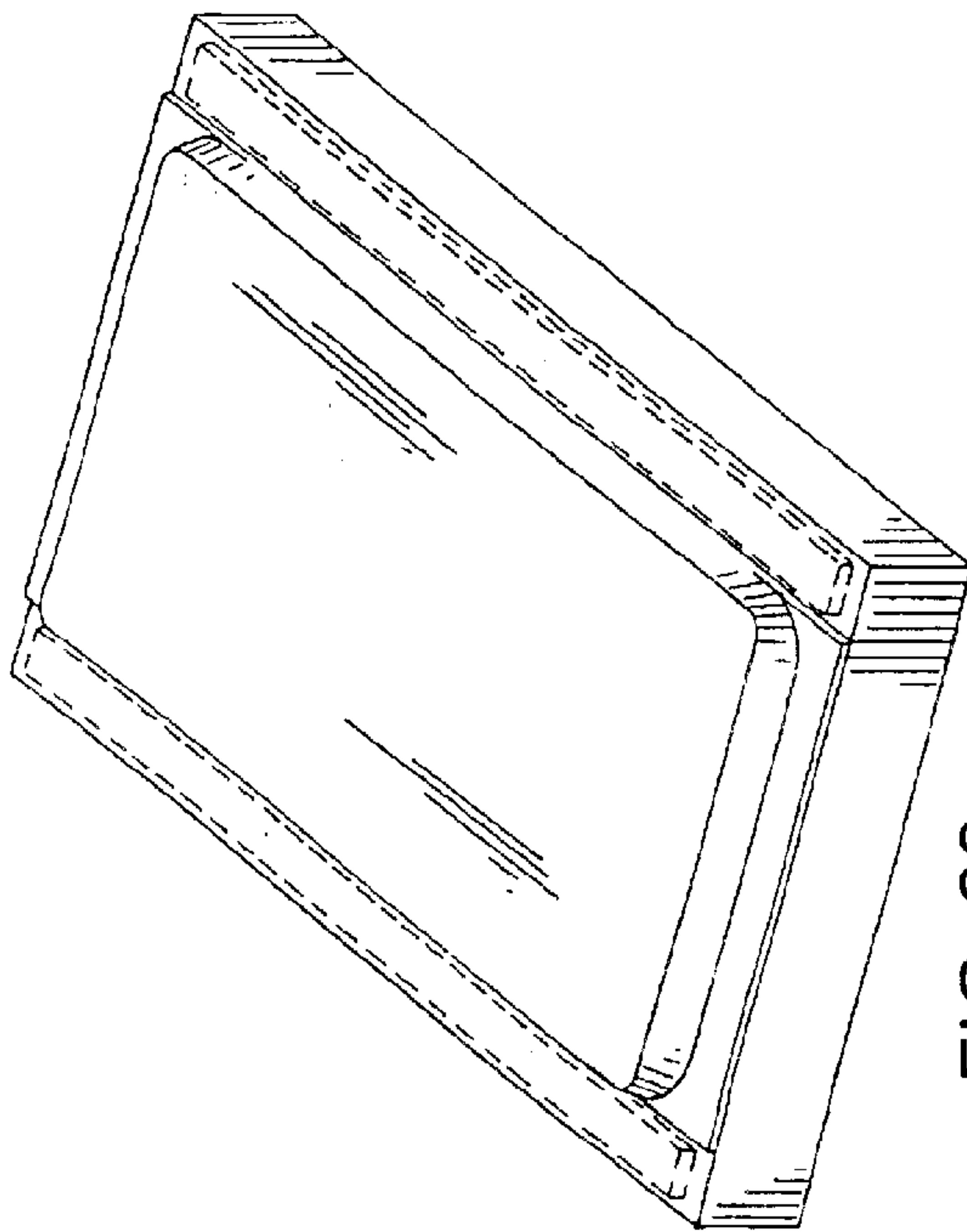


FIG. 29



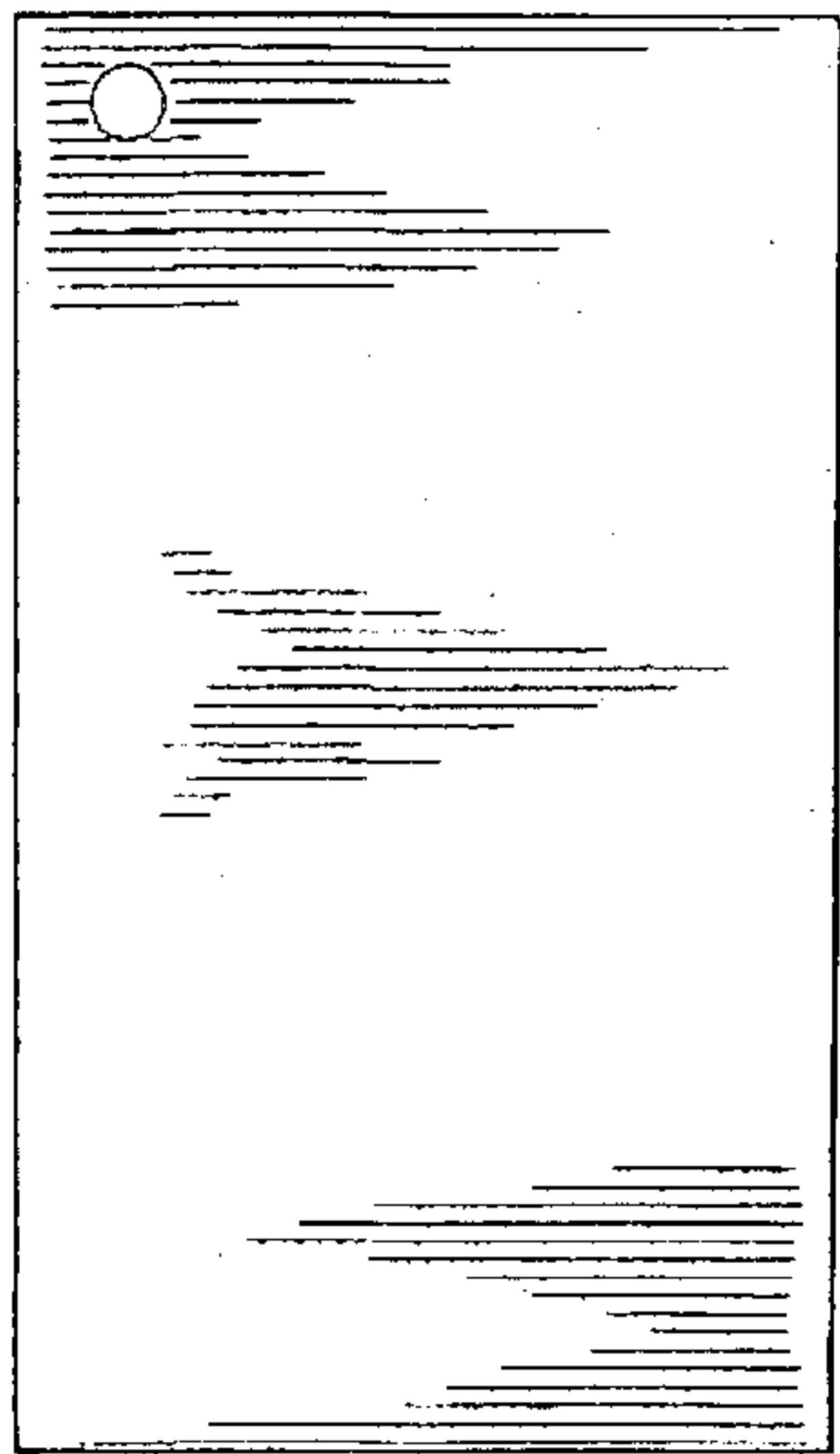


FIG. 37

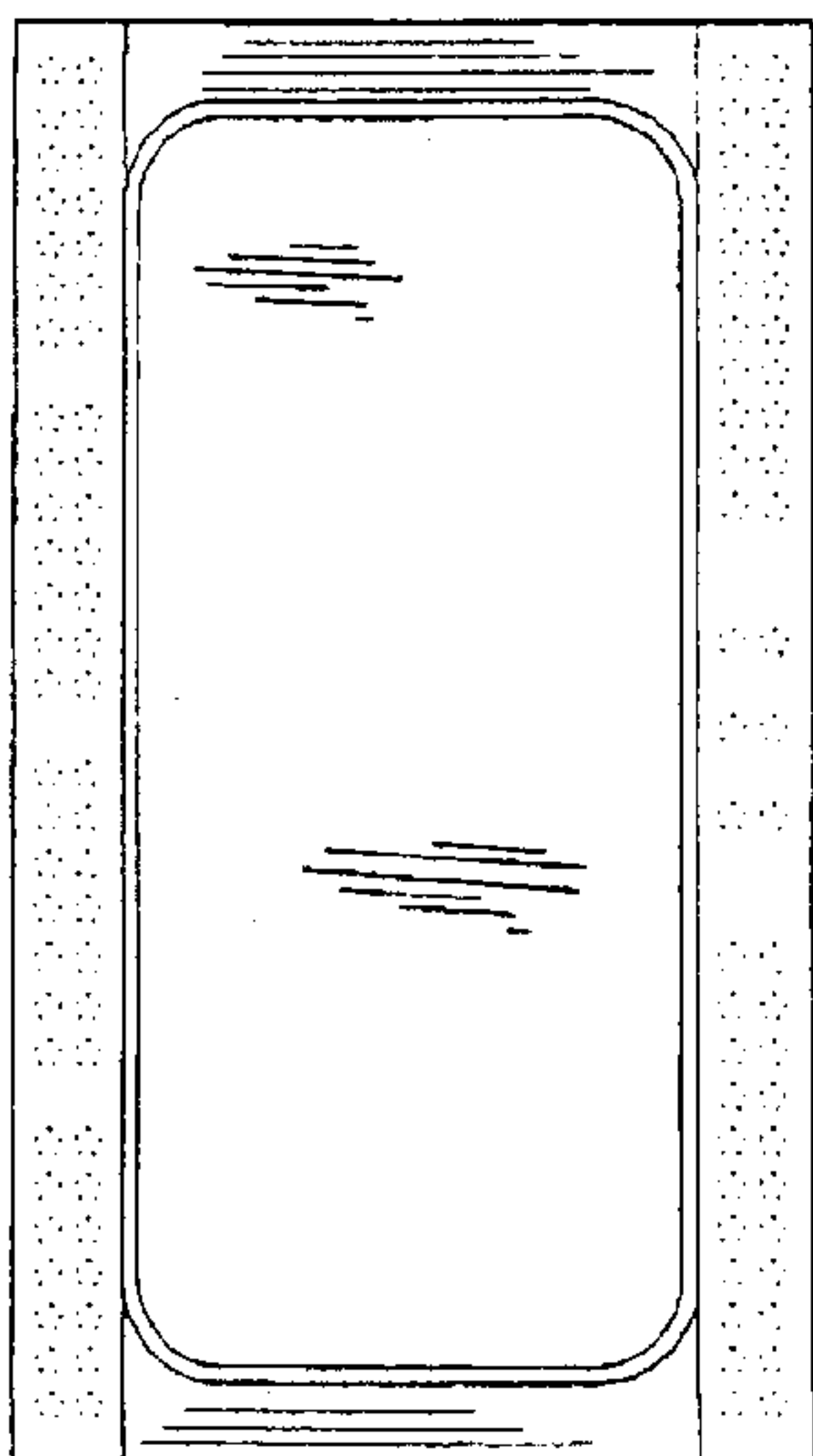


FIG. 38



FIG. 39

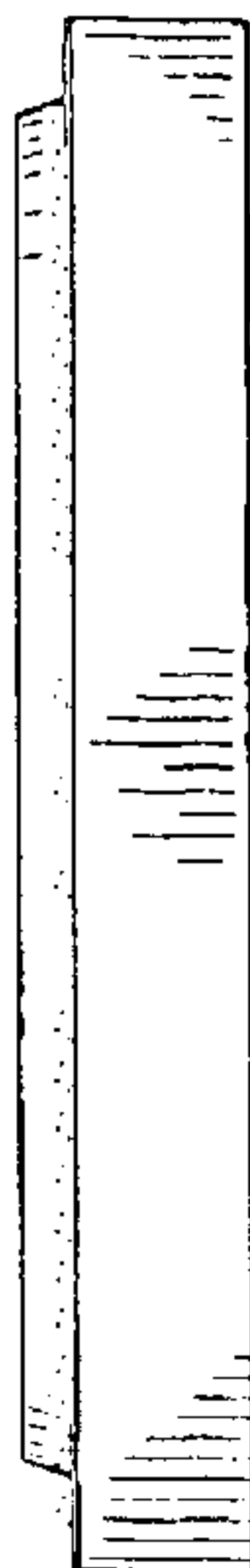


FIG. 40



FIG. 41

FIG. 42

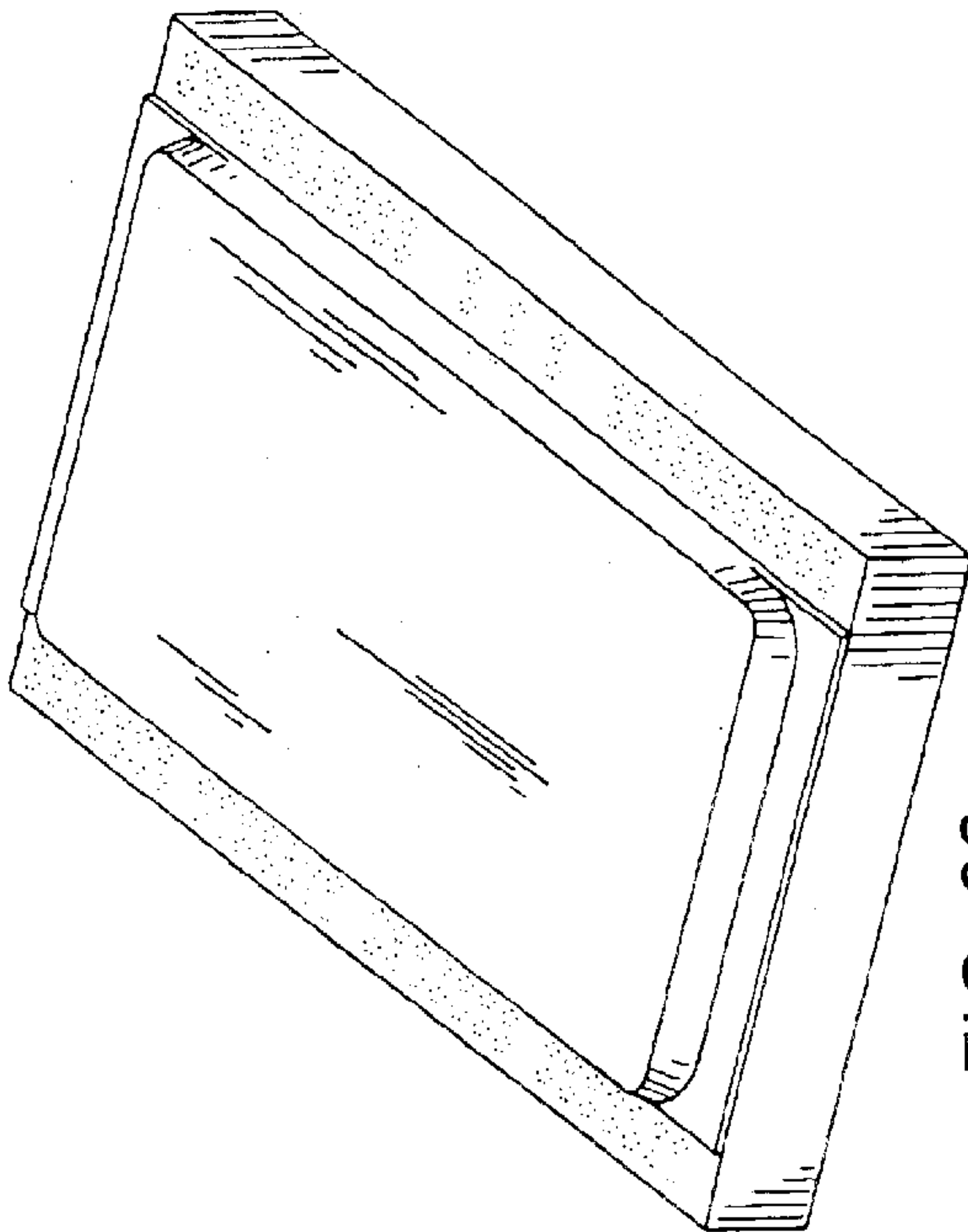


FIG. 36



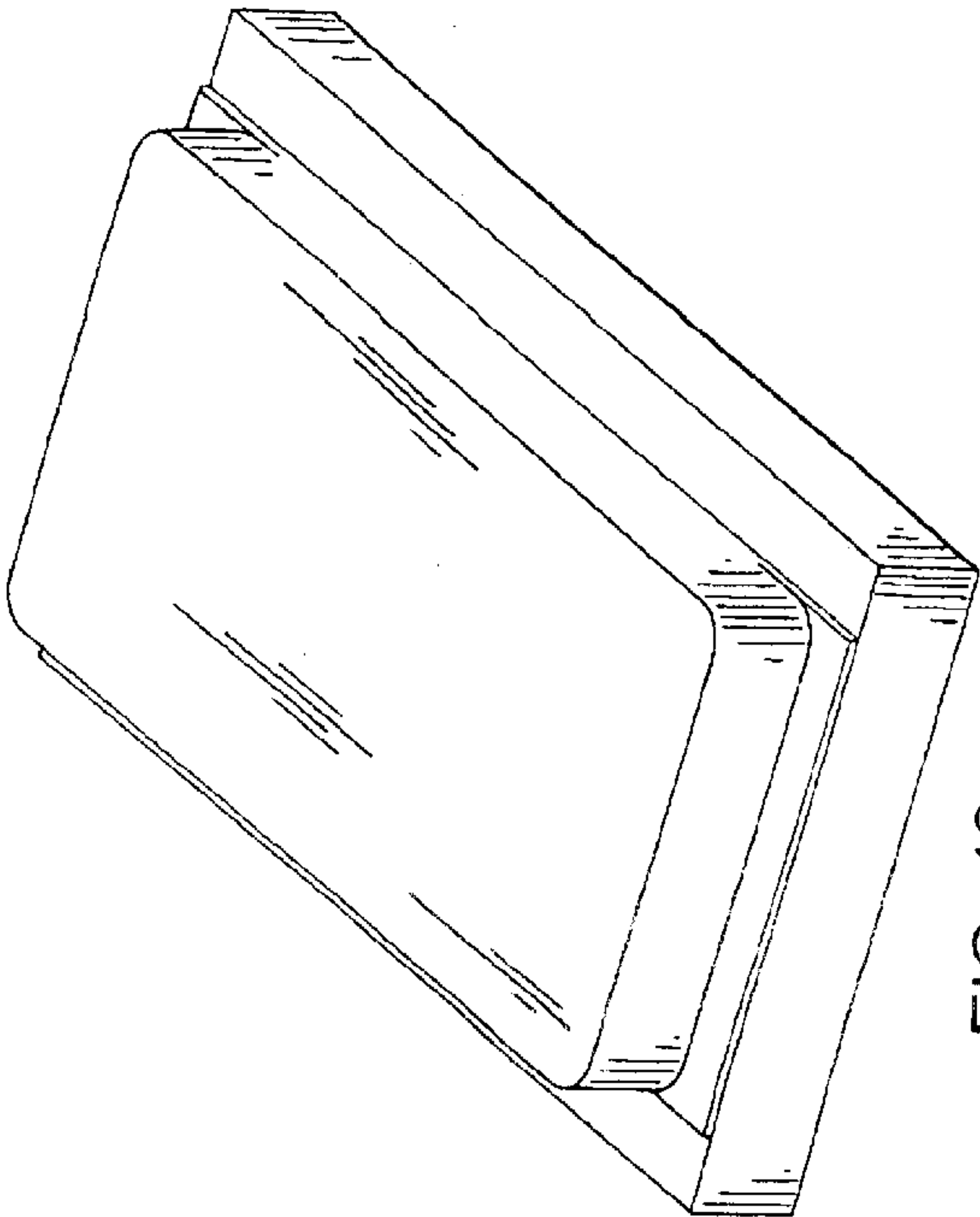


FIG. 43

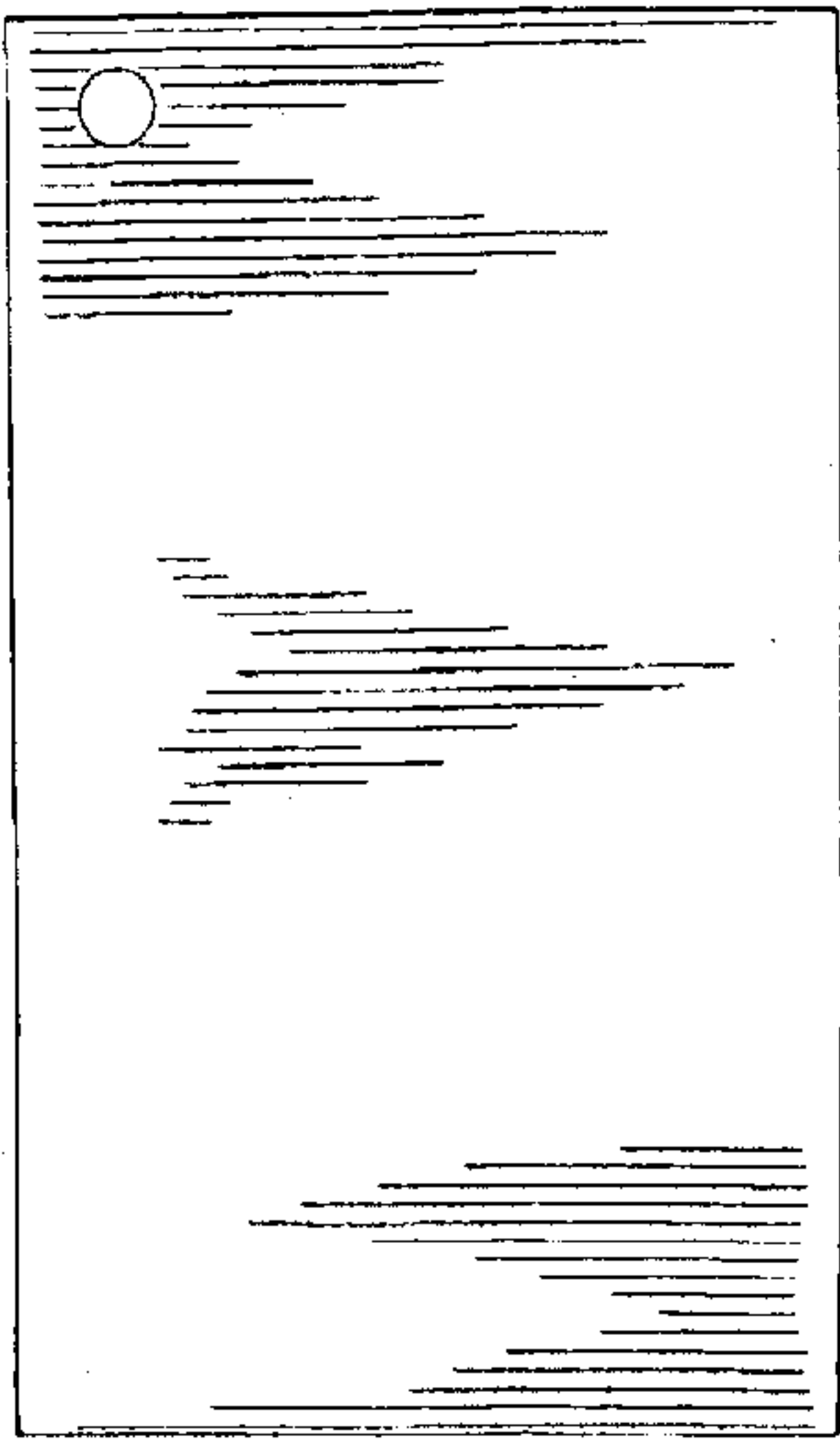


FIG. 44

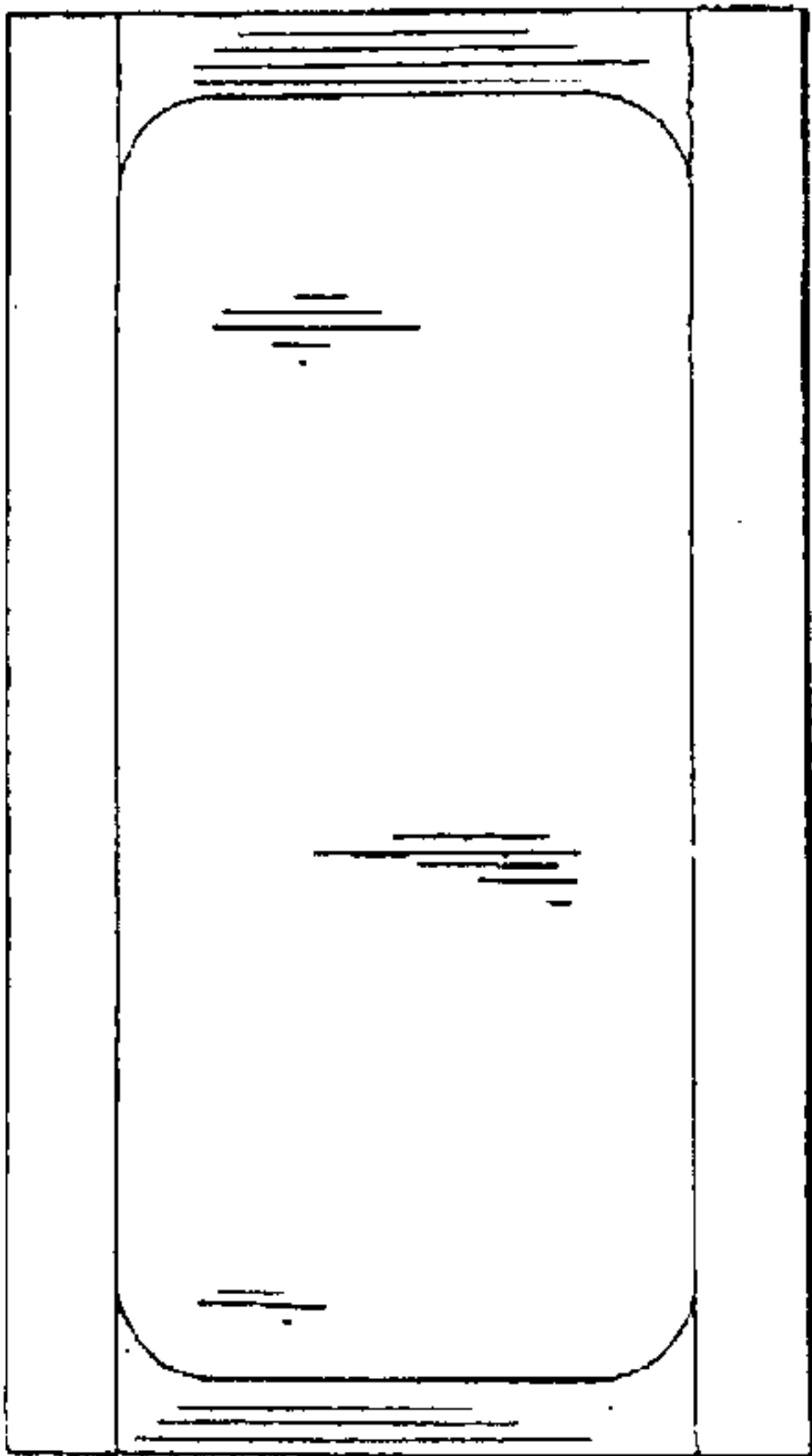


FIG. 45

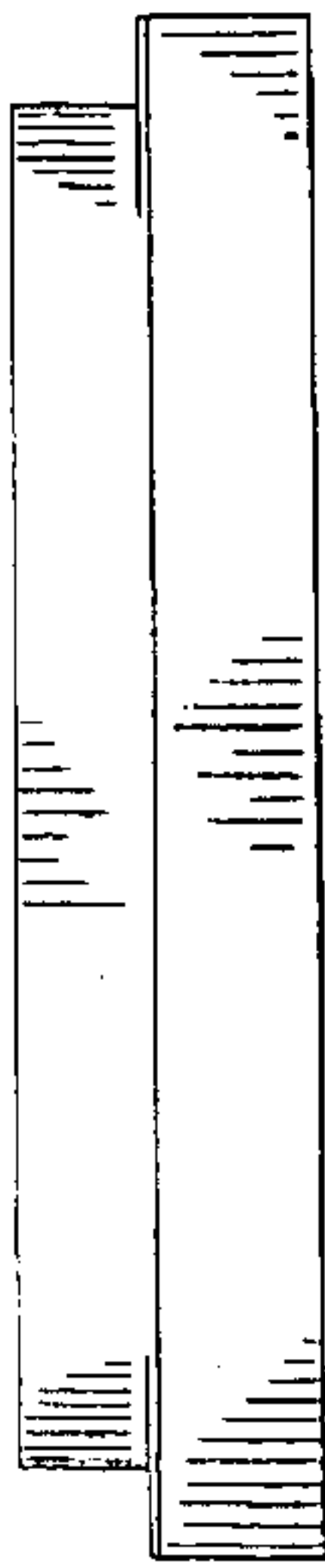


FIG. 46

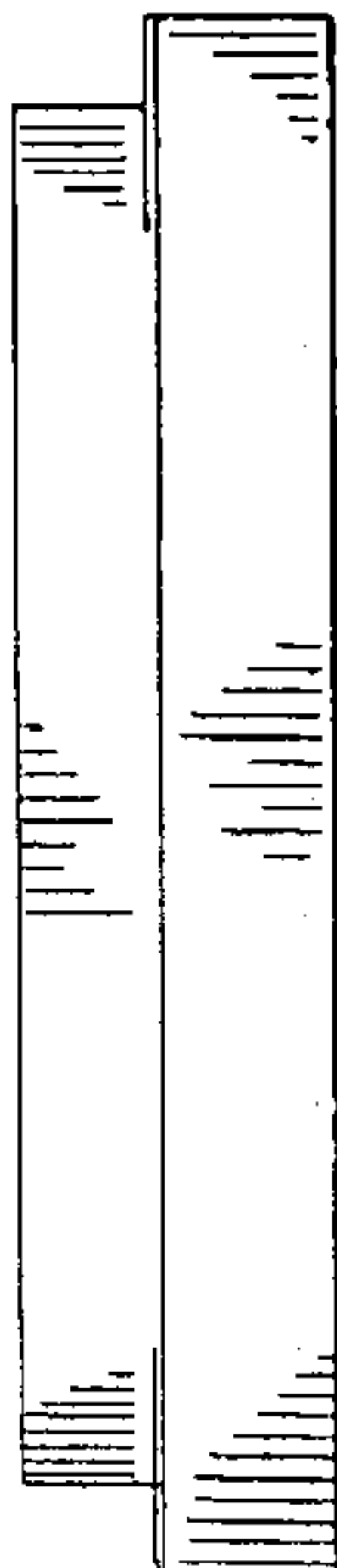


FIG. 47



FIG. 48

FIG. 49



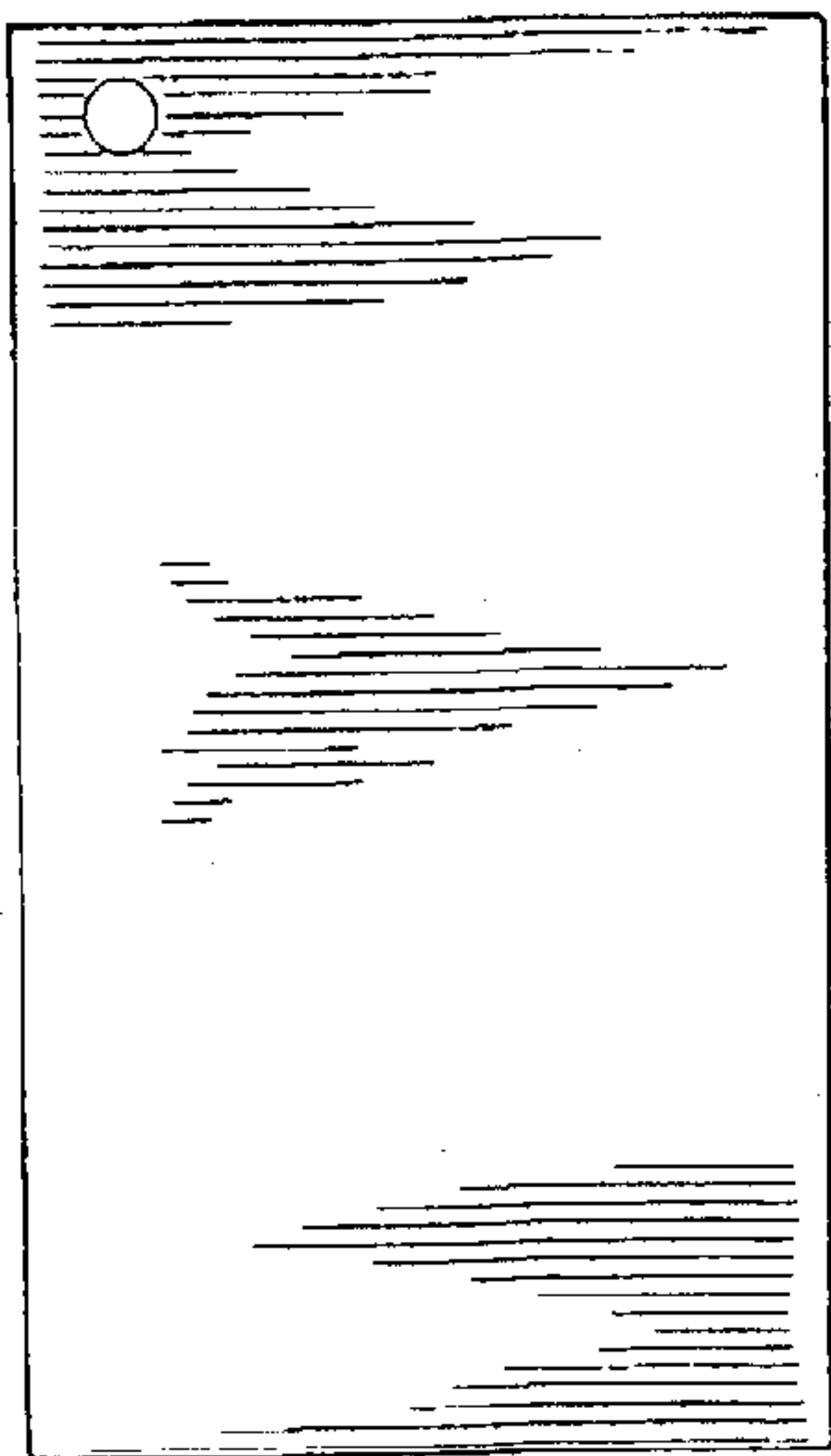


FIG. 51

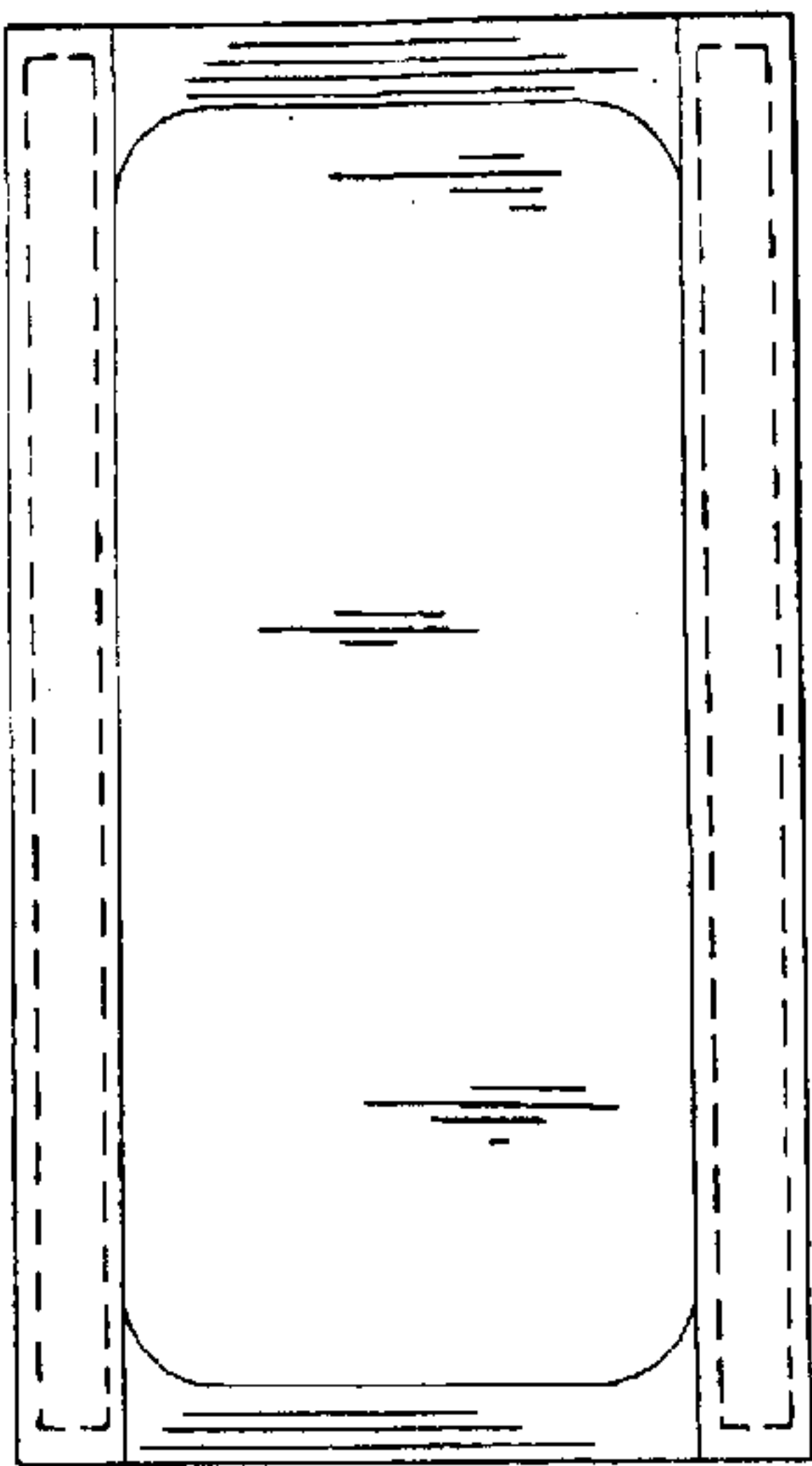


FIG. 52

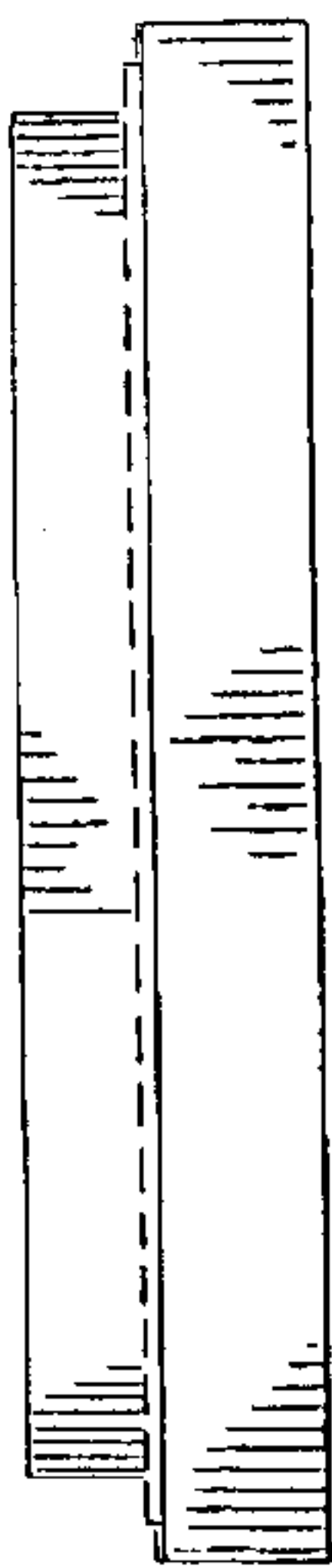


FIG. 53

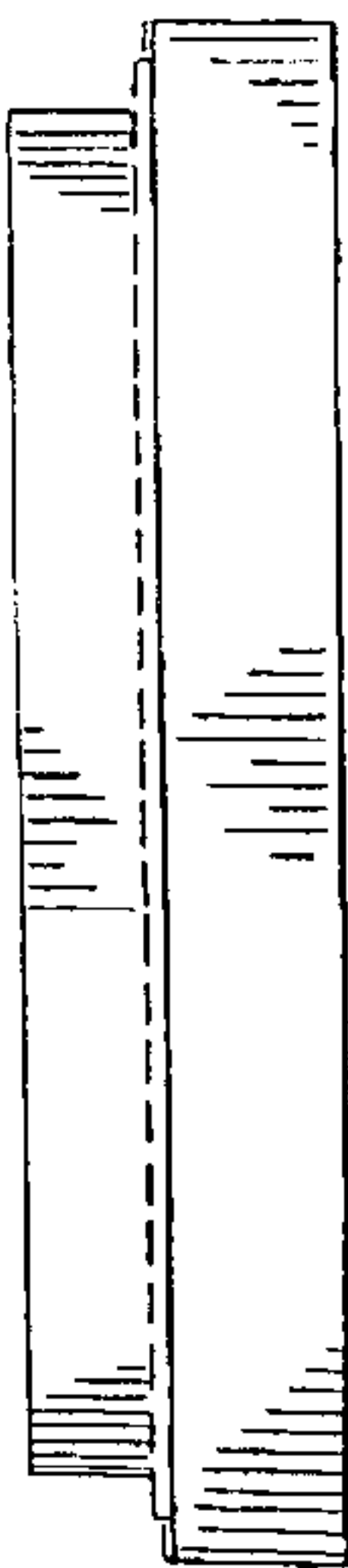


FIG. 54



FIG. 55

FIG. 56

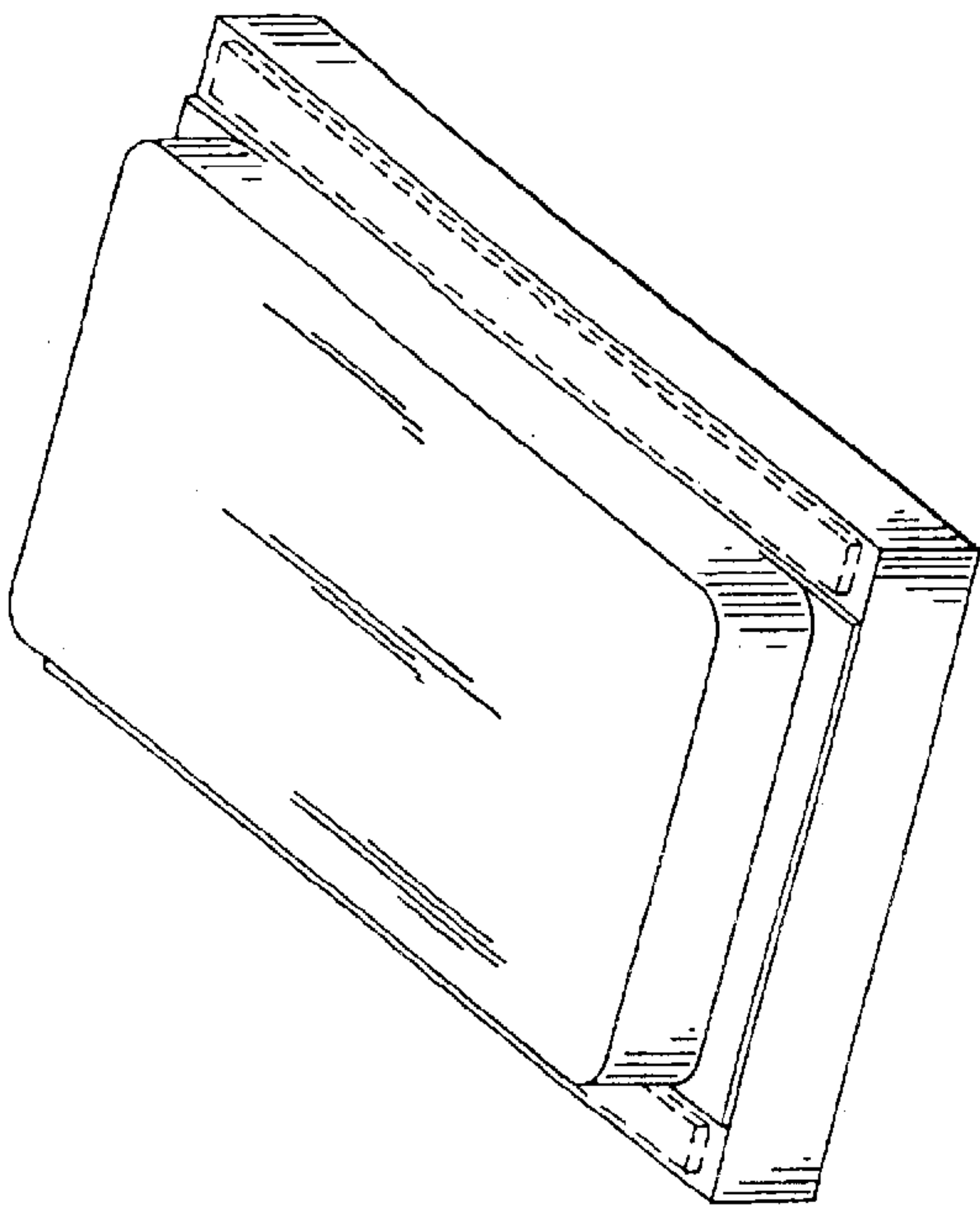


FIG. 50



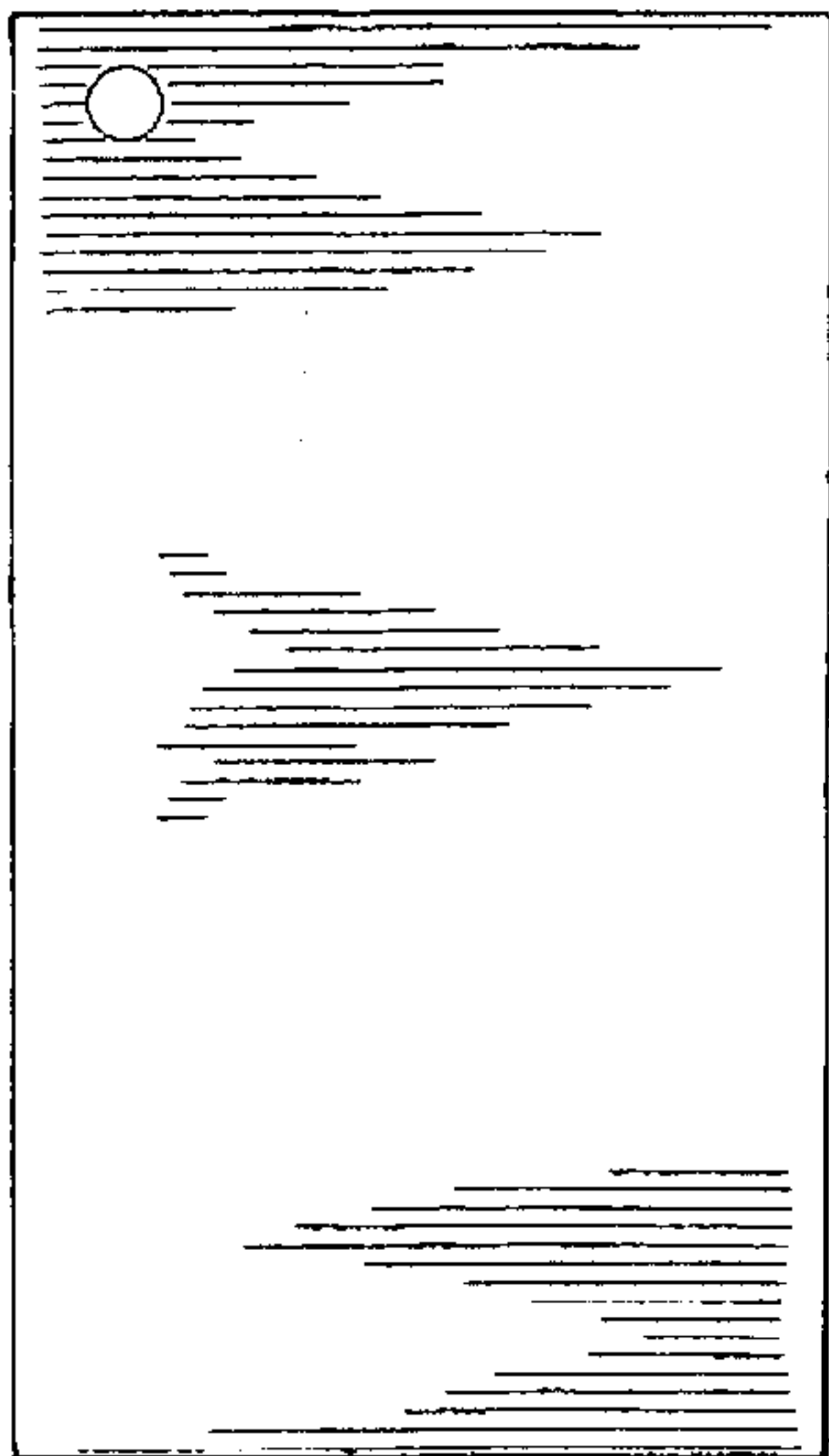


FIG. 58

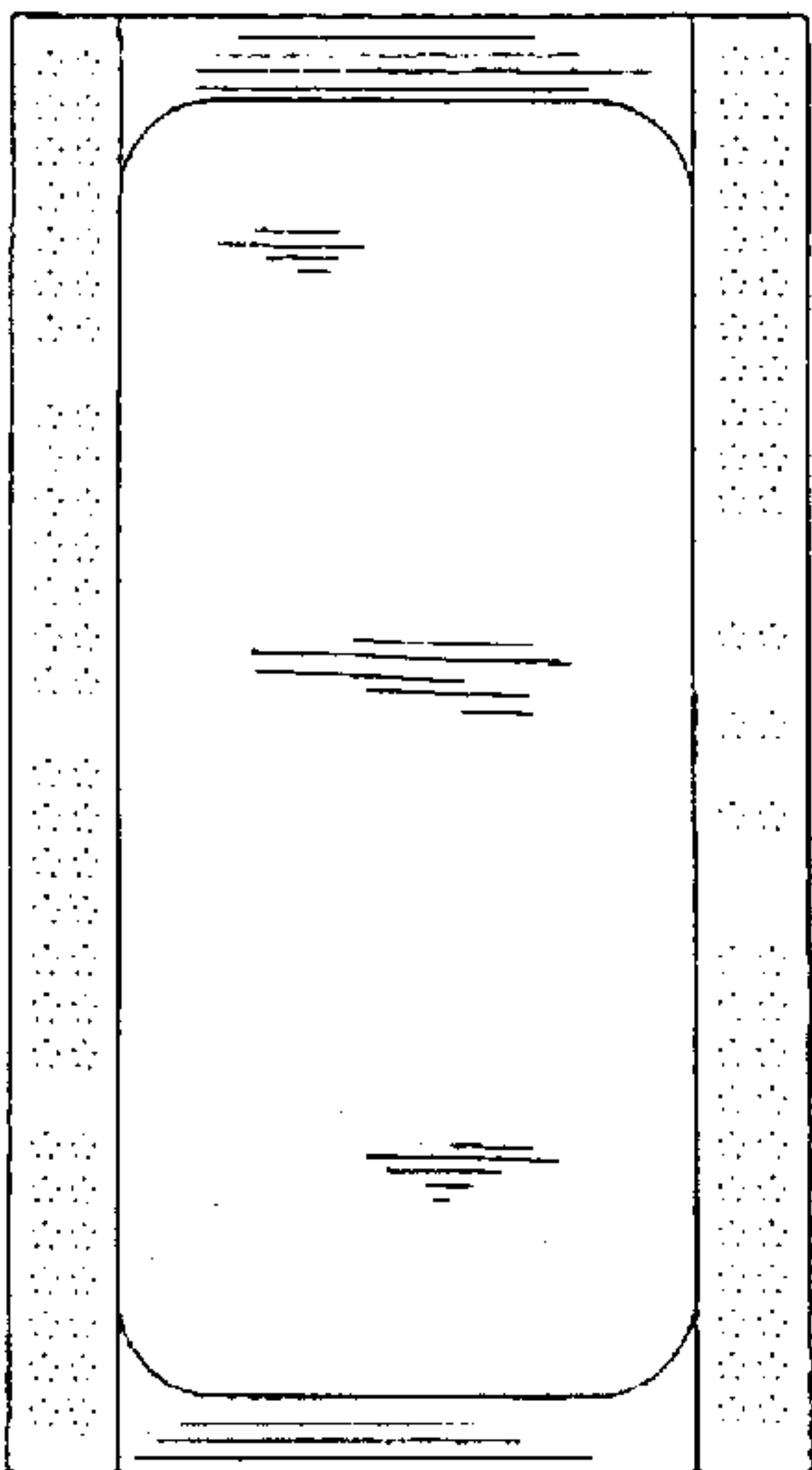


FIG. 59

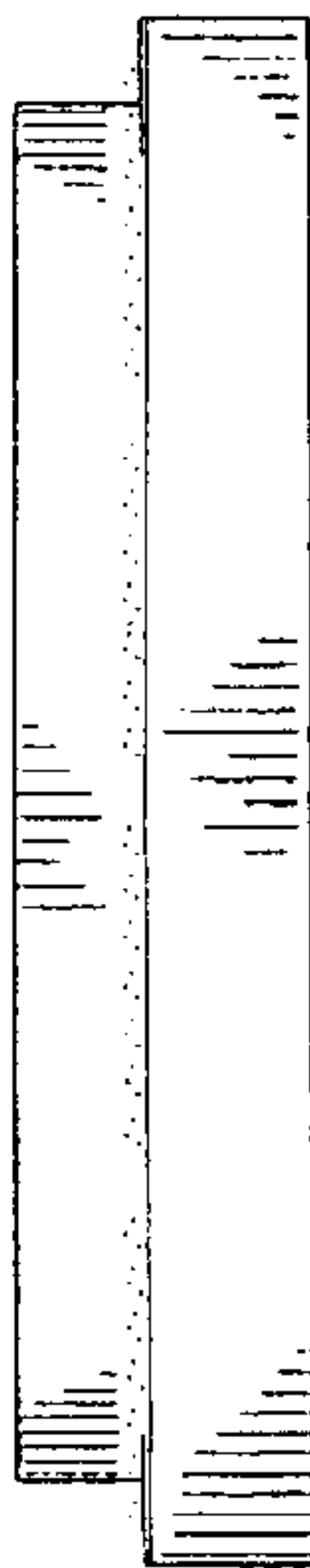


FIG. 60

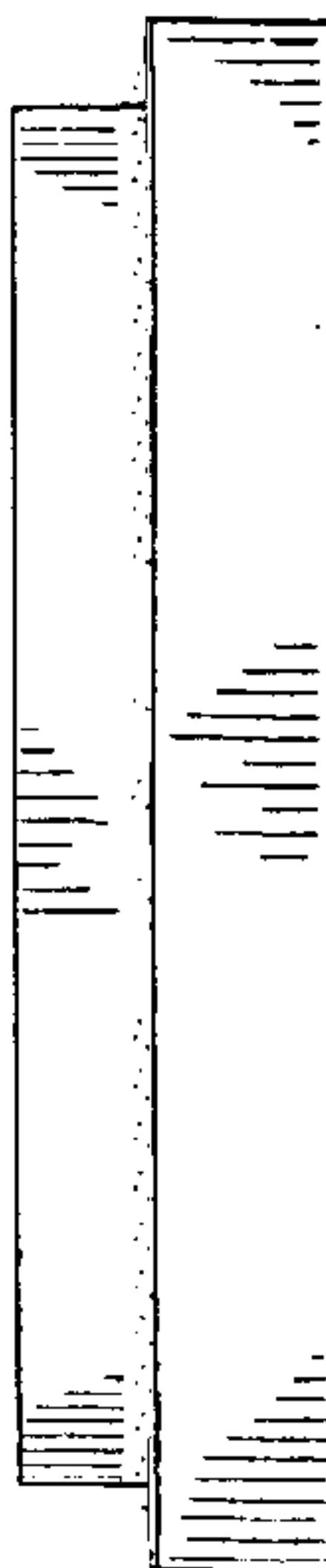


FIG. 61



FIG. 62

FIG. 63

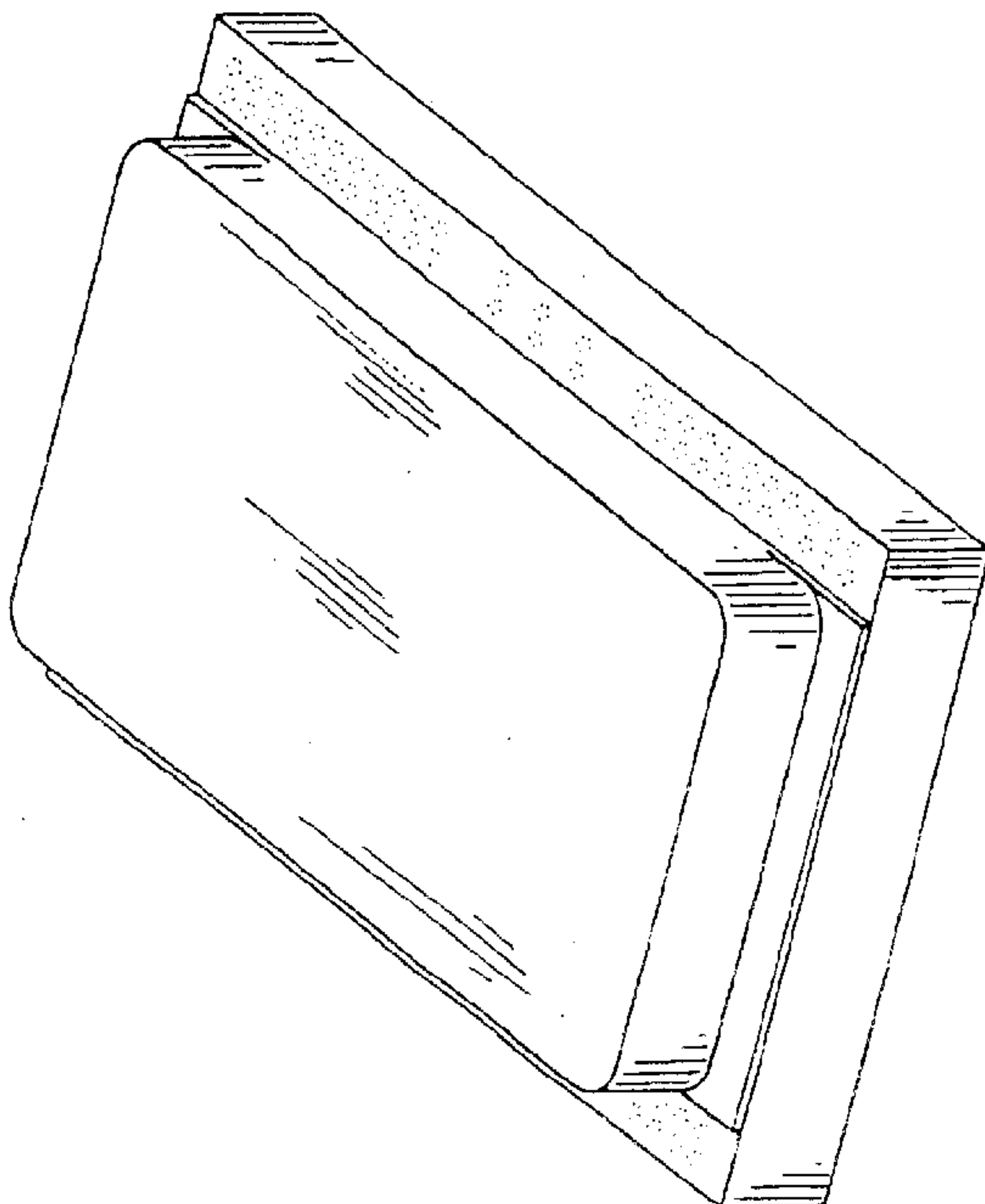


FIG. 57



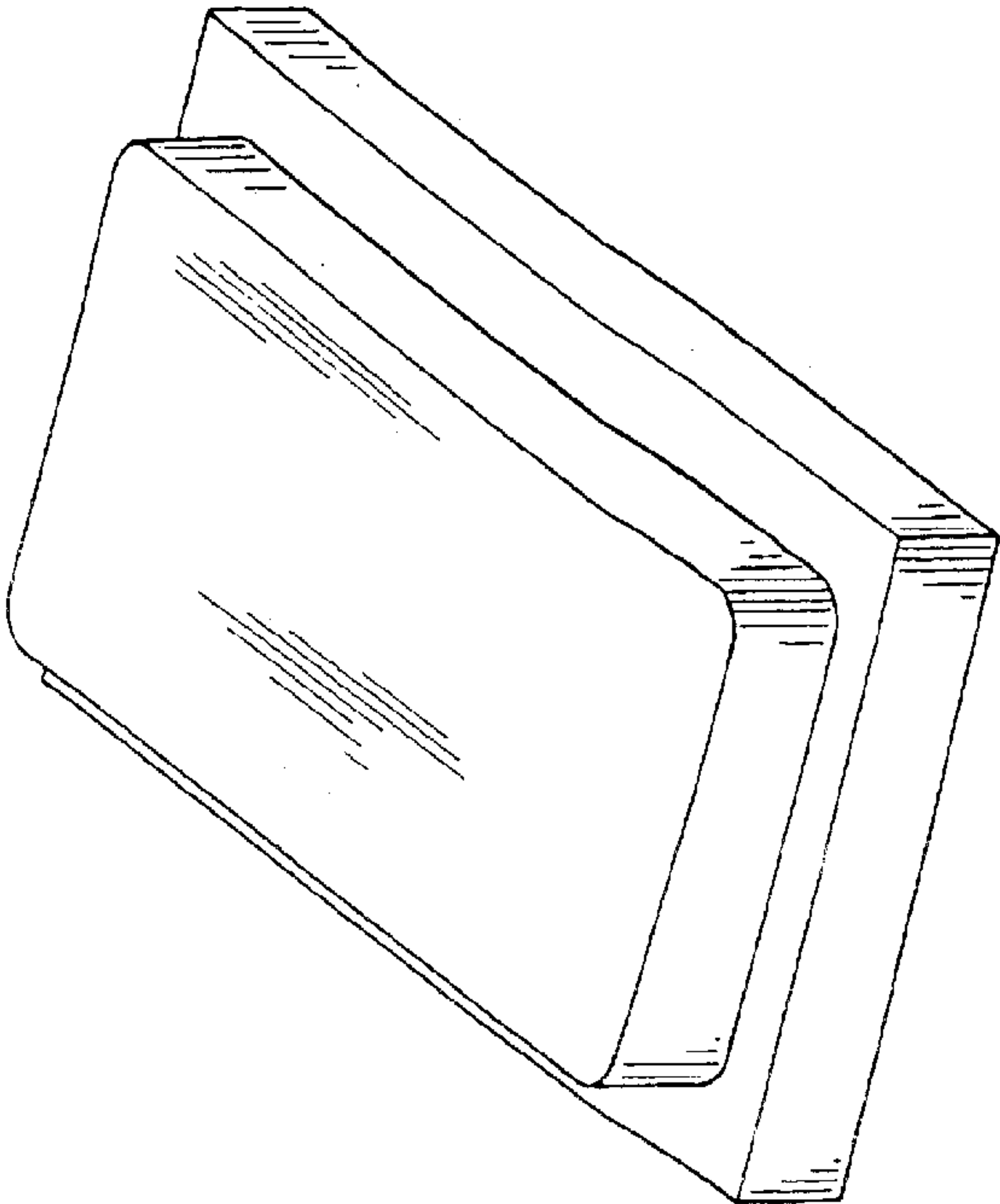


FIG. 64

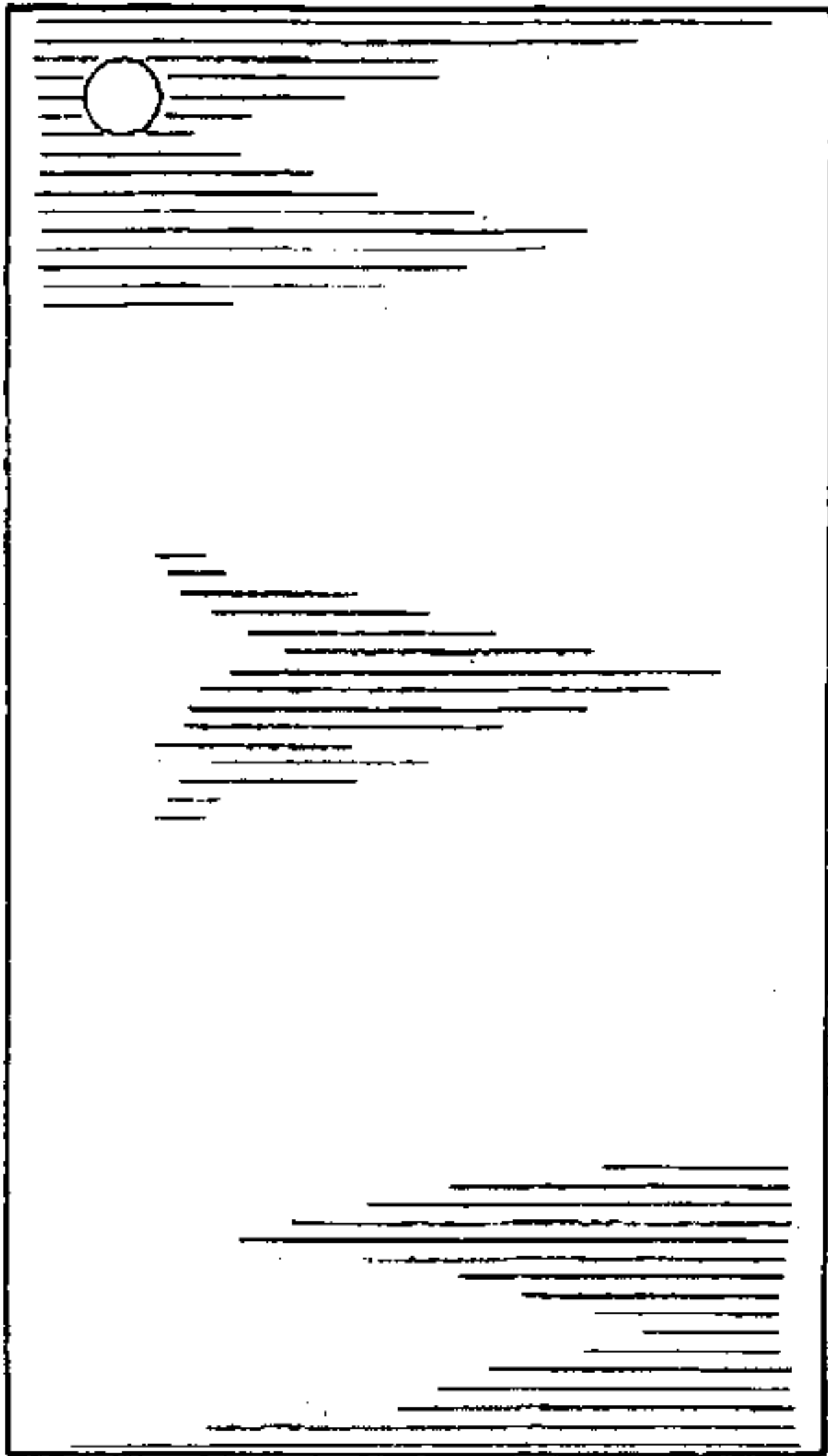


FIG. 65

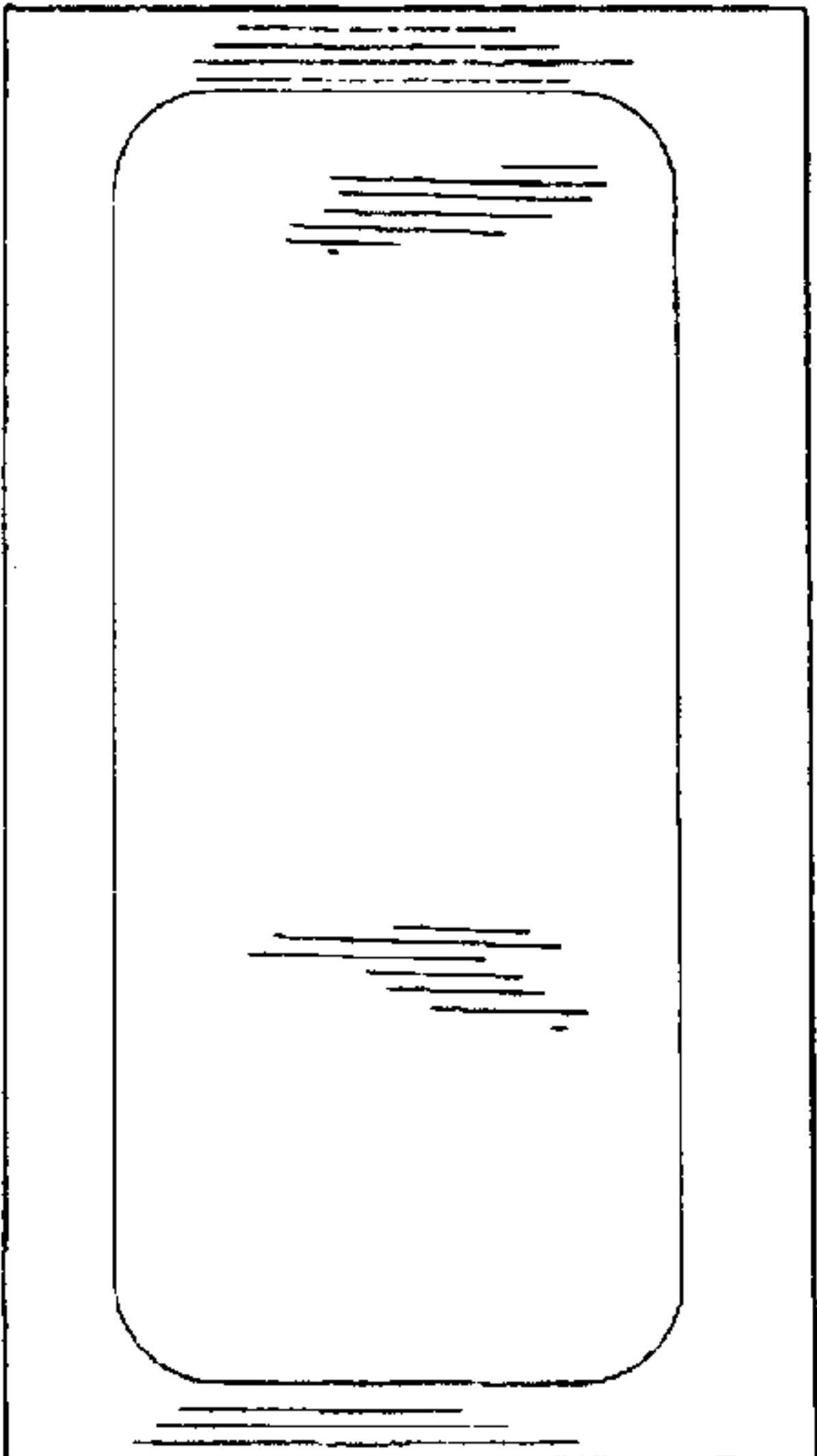


FIG. 66

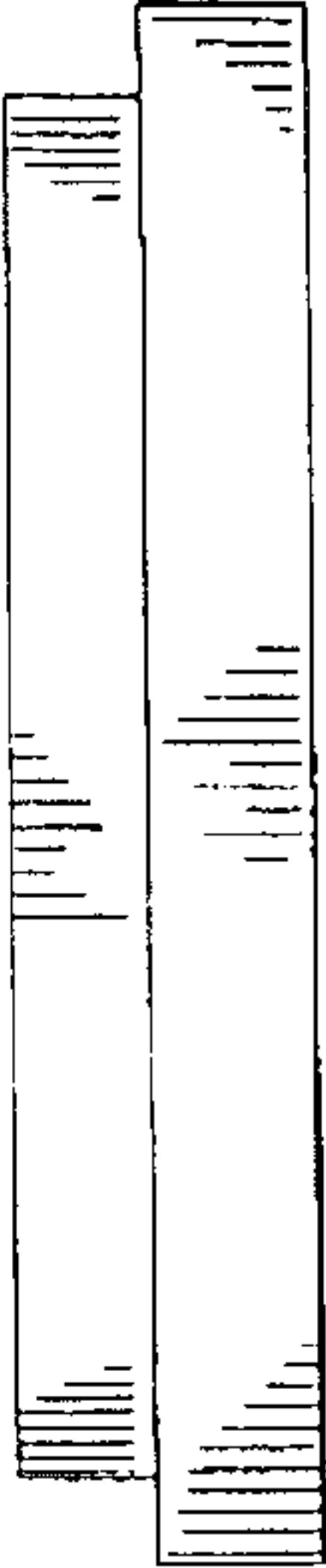


FIG. 67

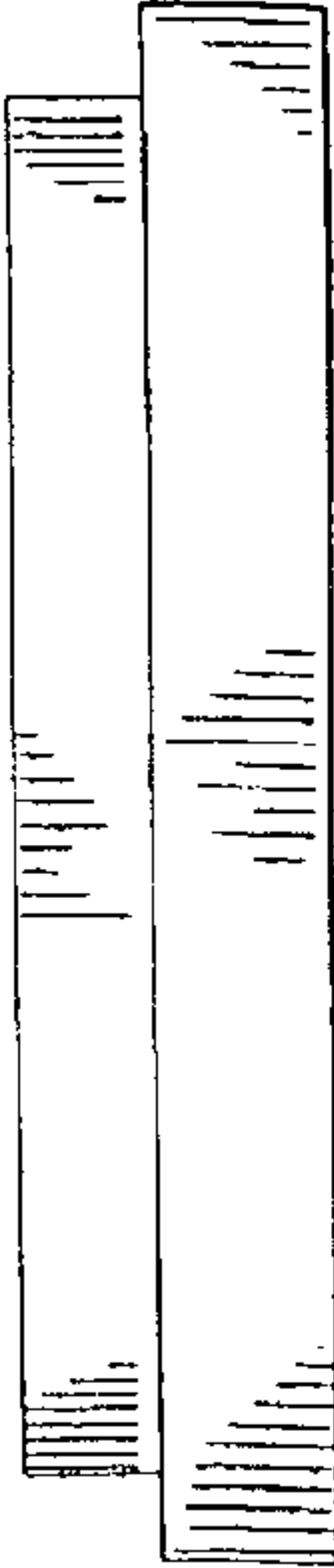


FIG. 68



FIG. 69

FIG. 70



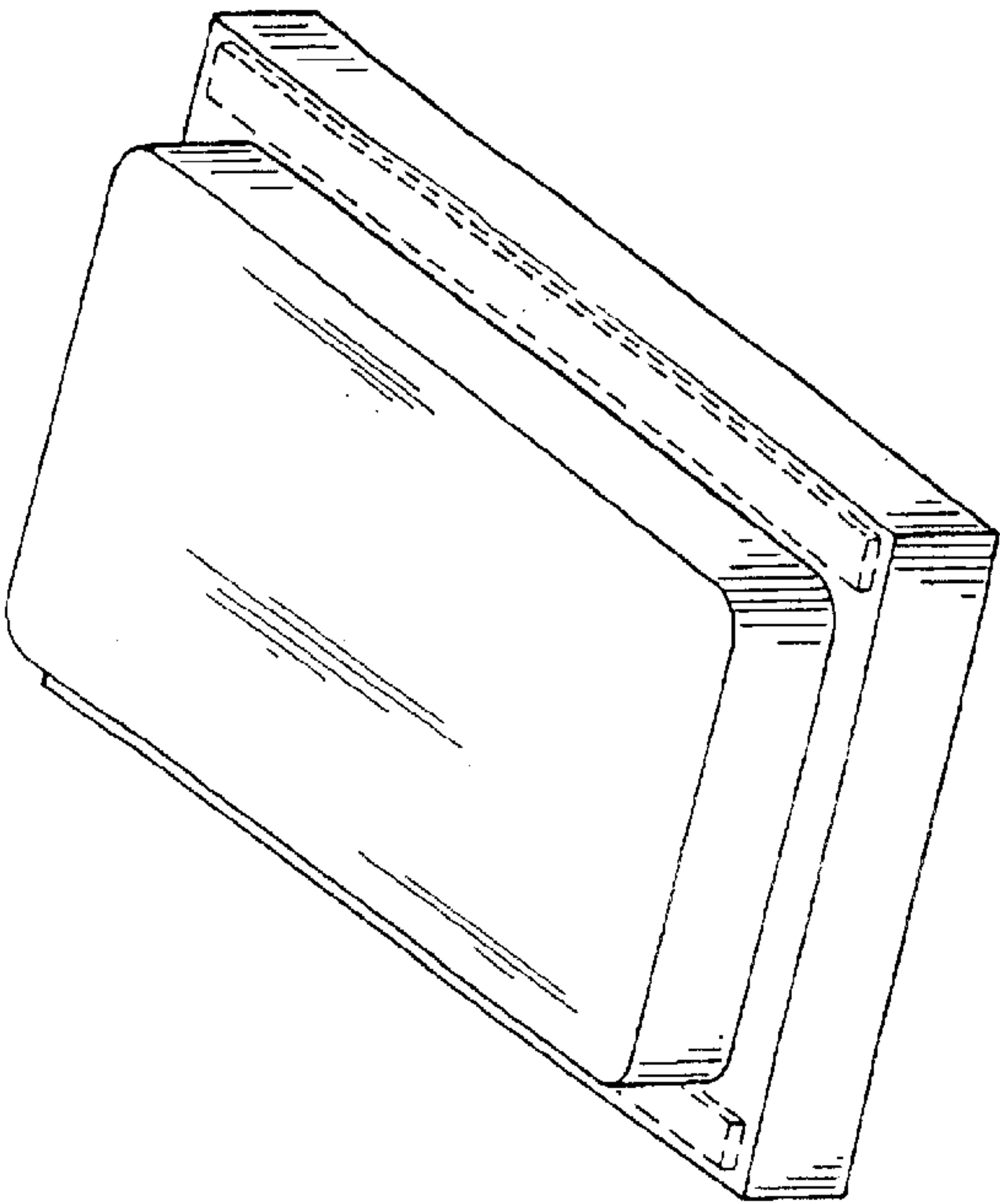


FIG. 71

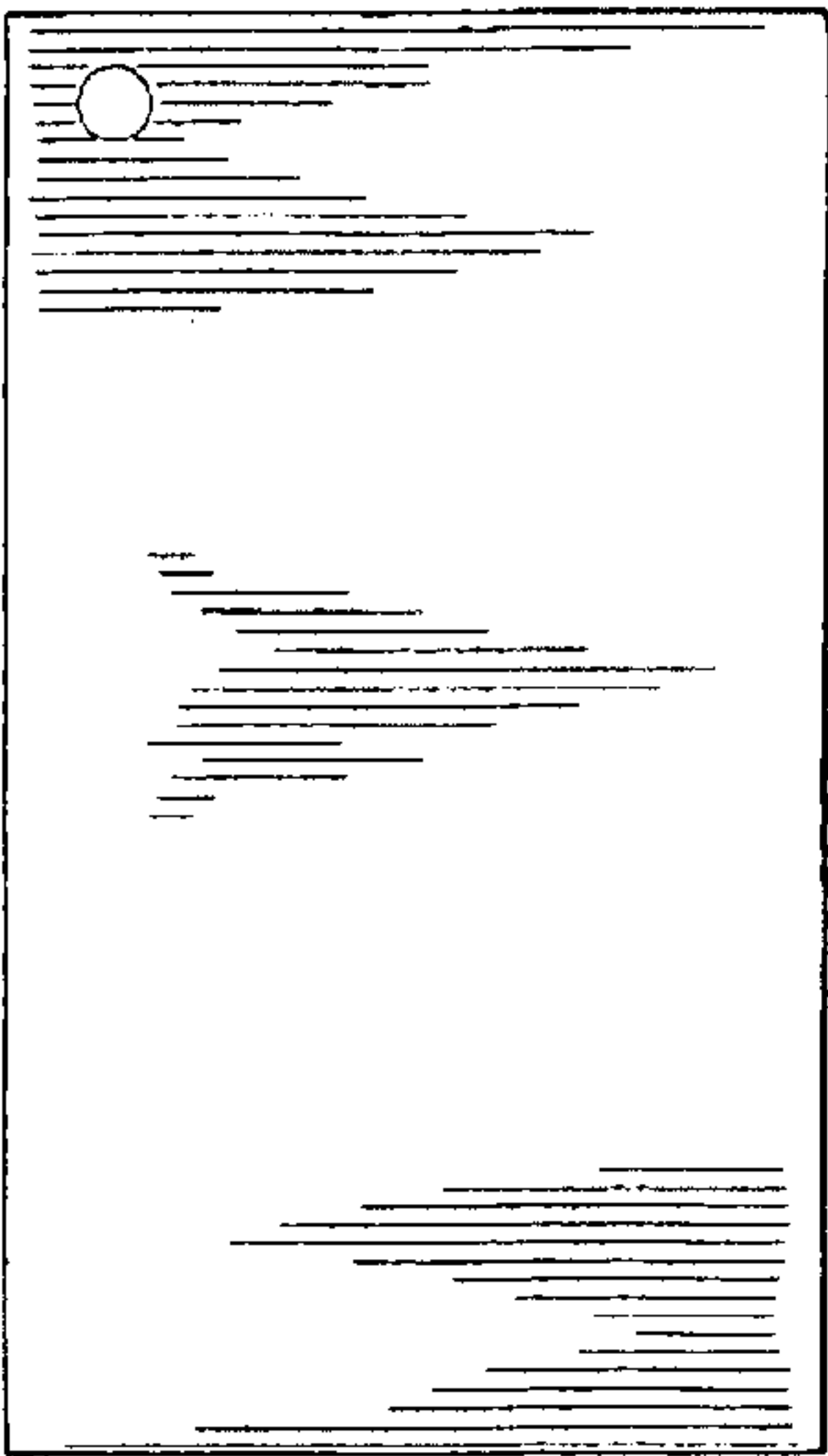


FIG. 72

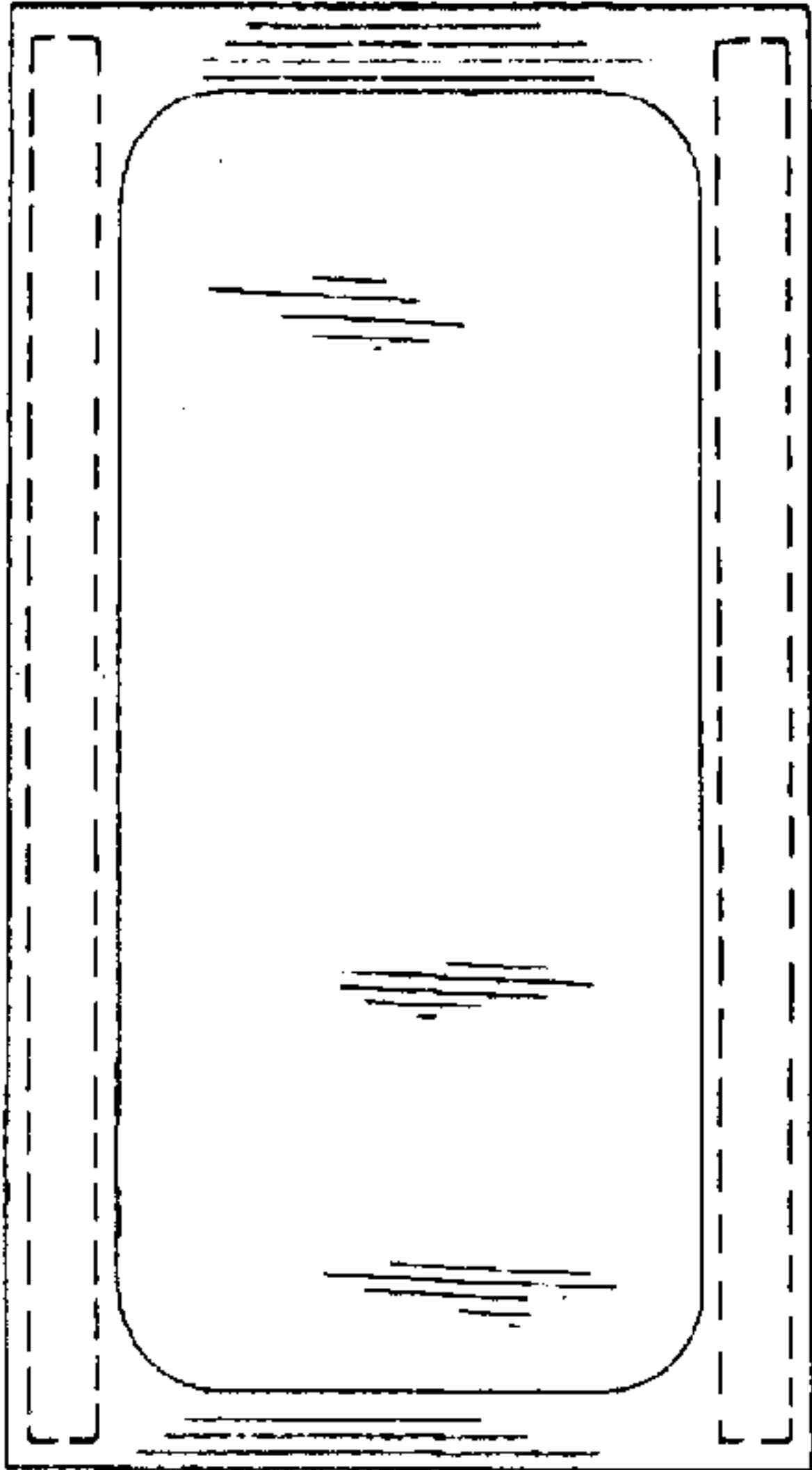


FIG. 73

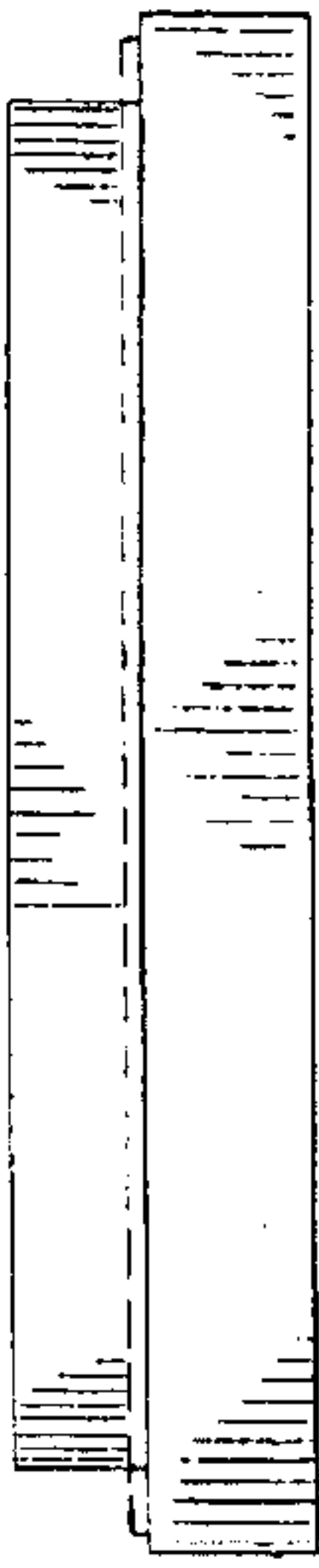


FIG. 74

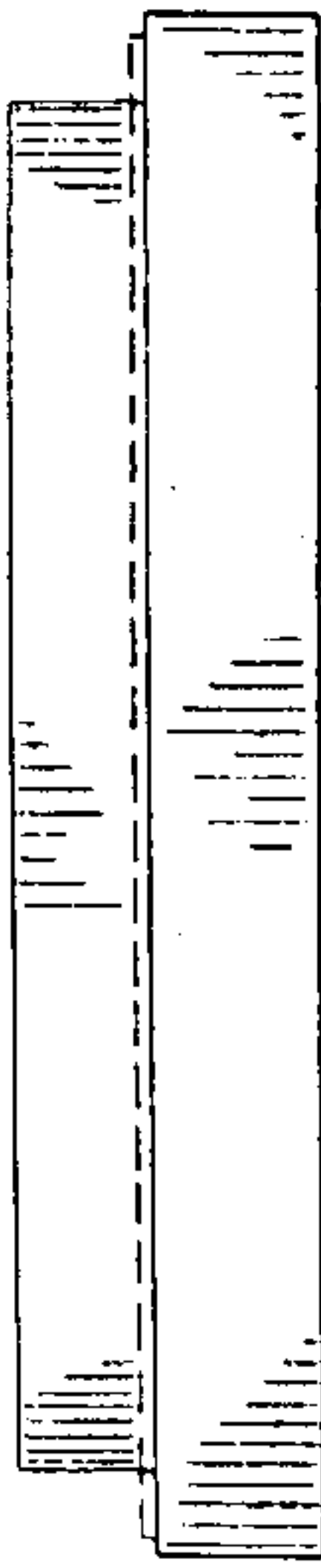


FIG. 75



FIG. 76

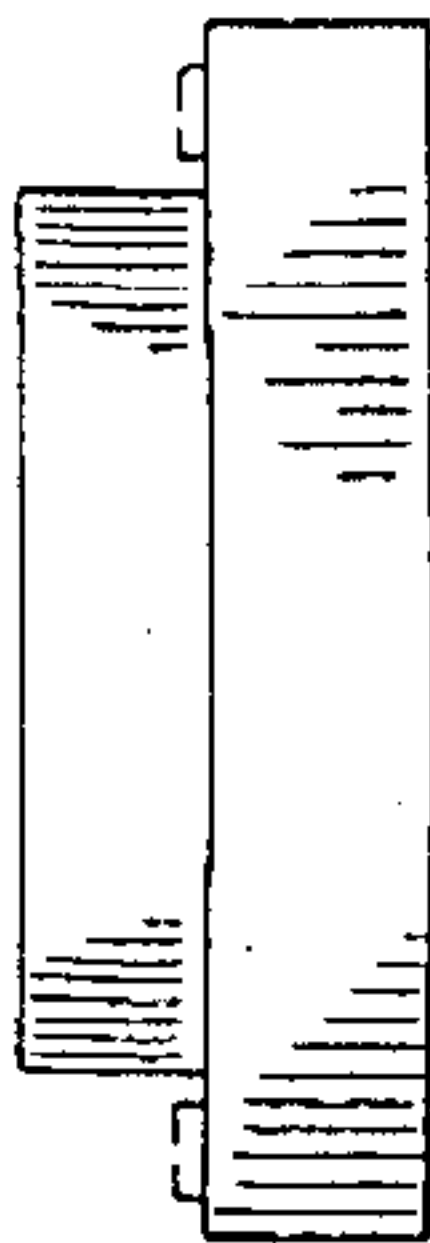


FIG. 77



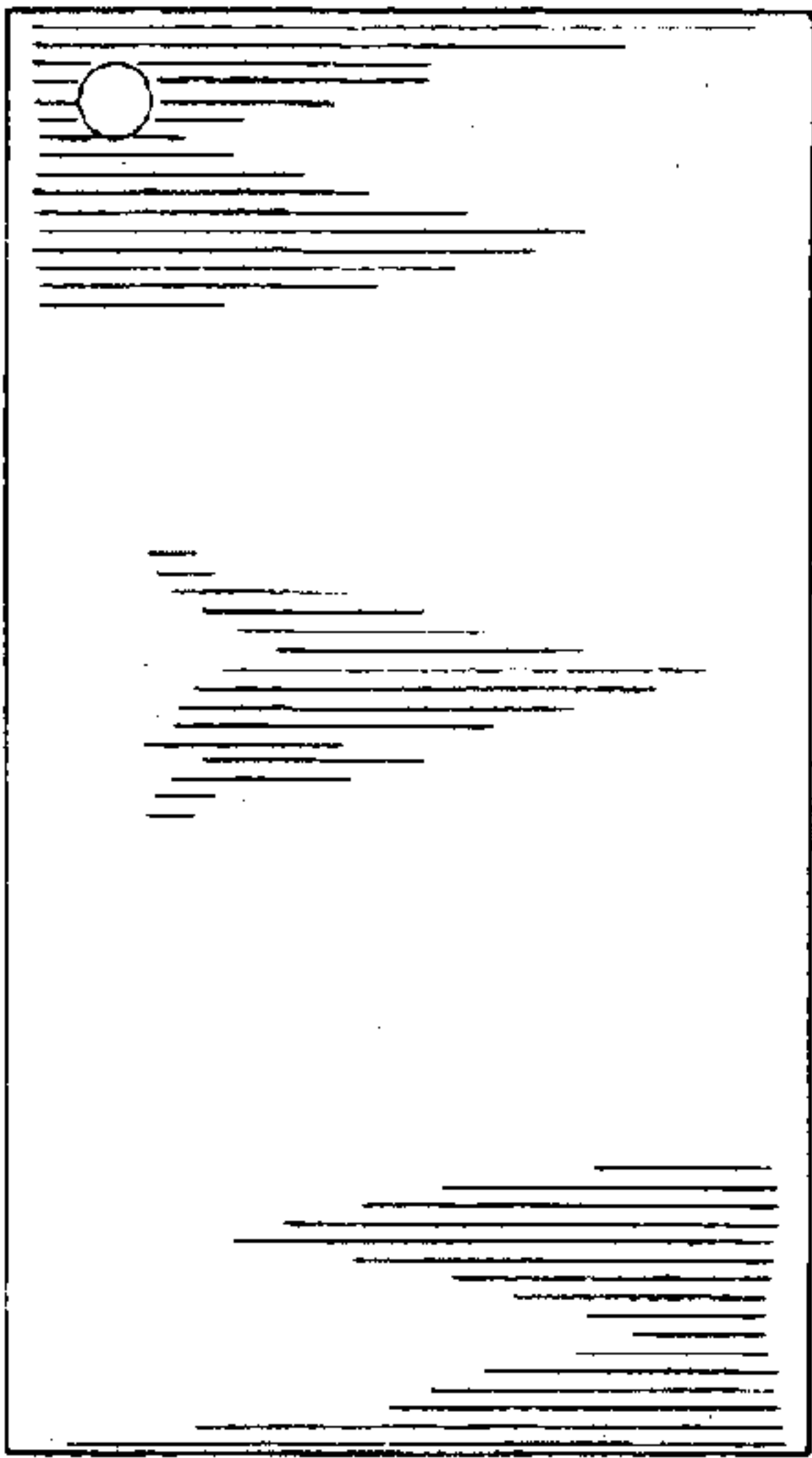


FIG. 79

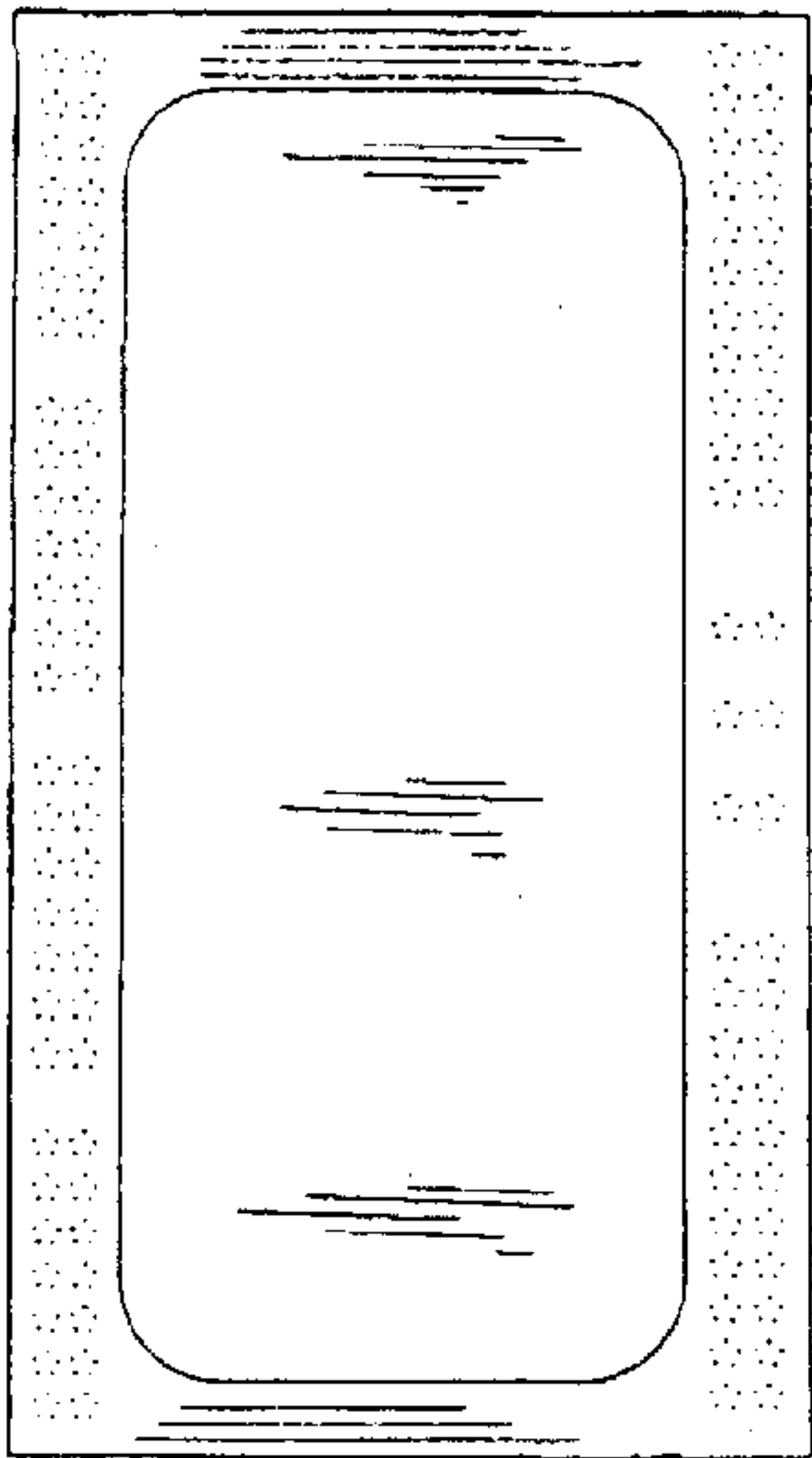


FIG. 80

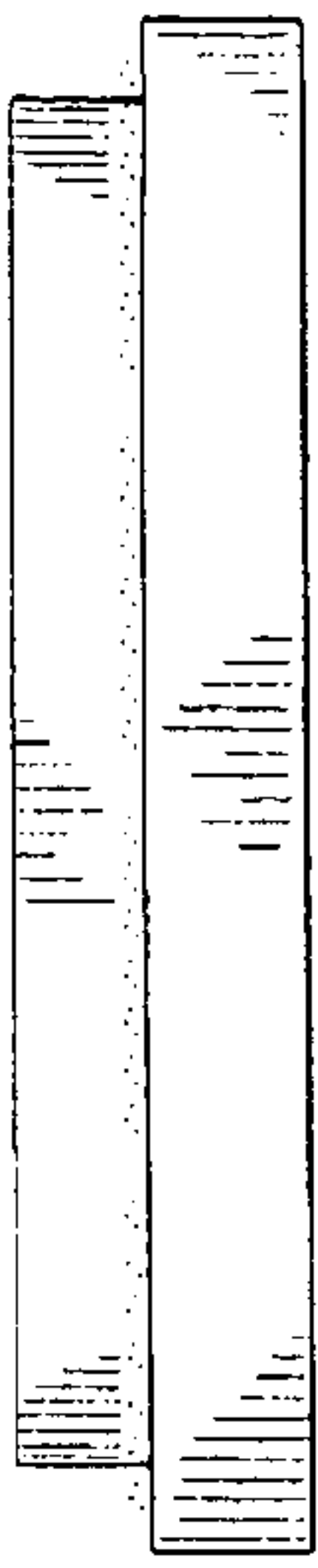


FIG. 81

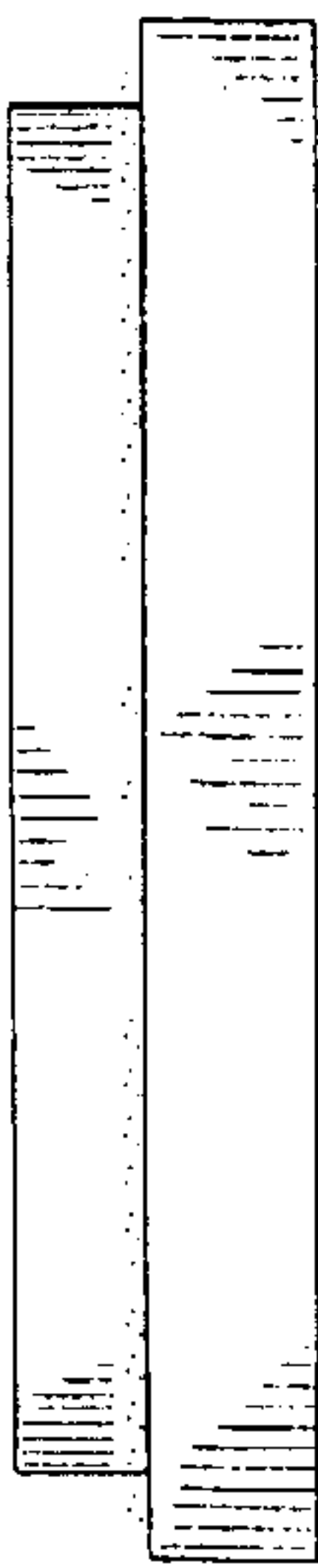


FIG. 82

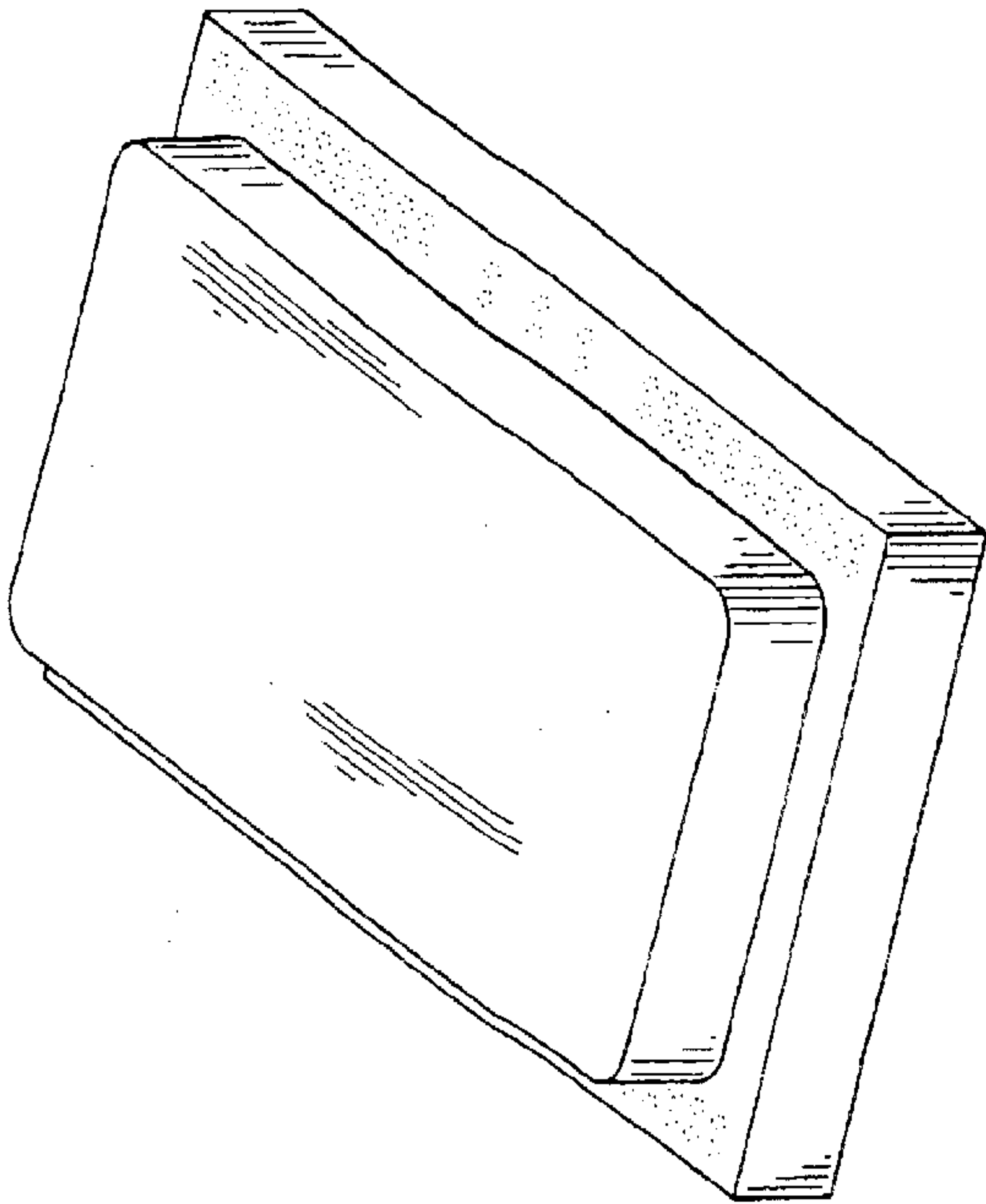


FIG. 78

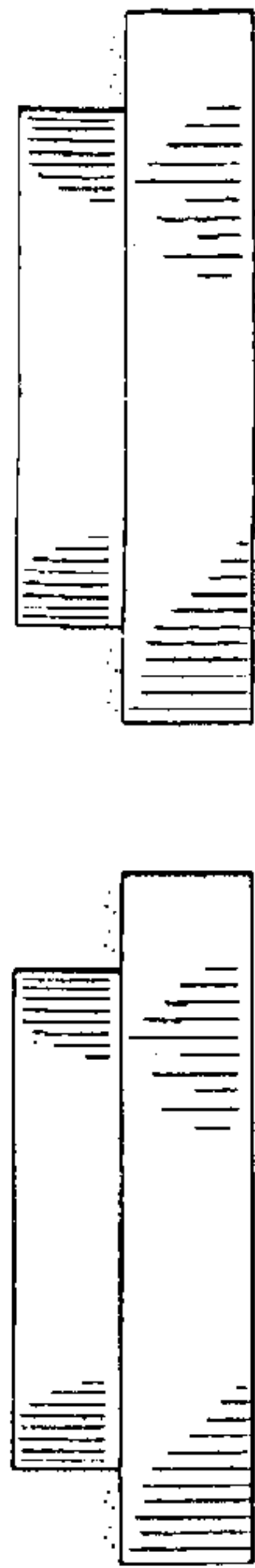


FIG. 83

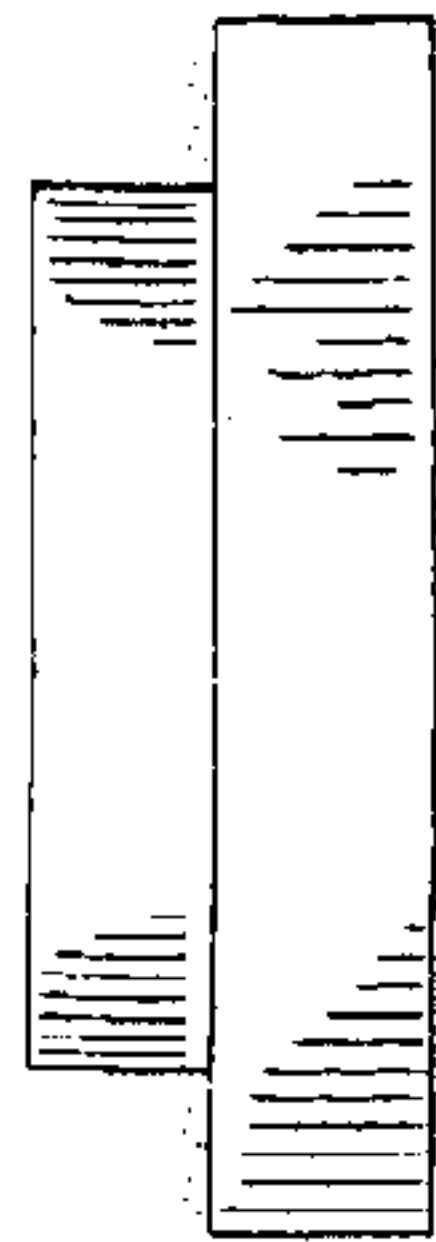


FIG. 84



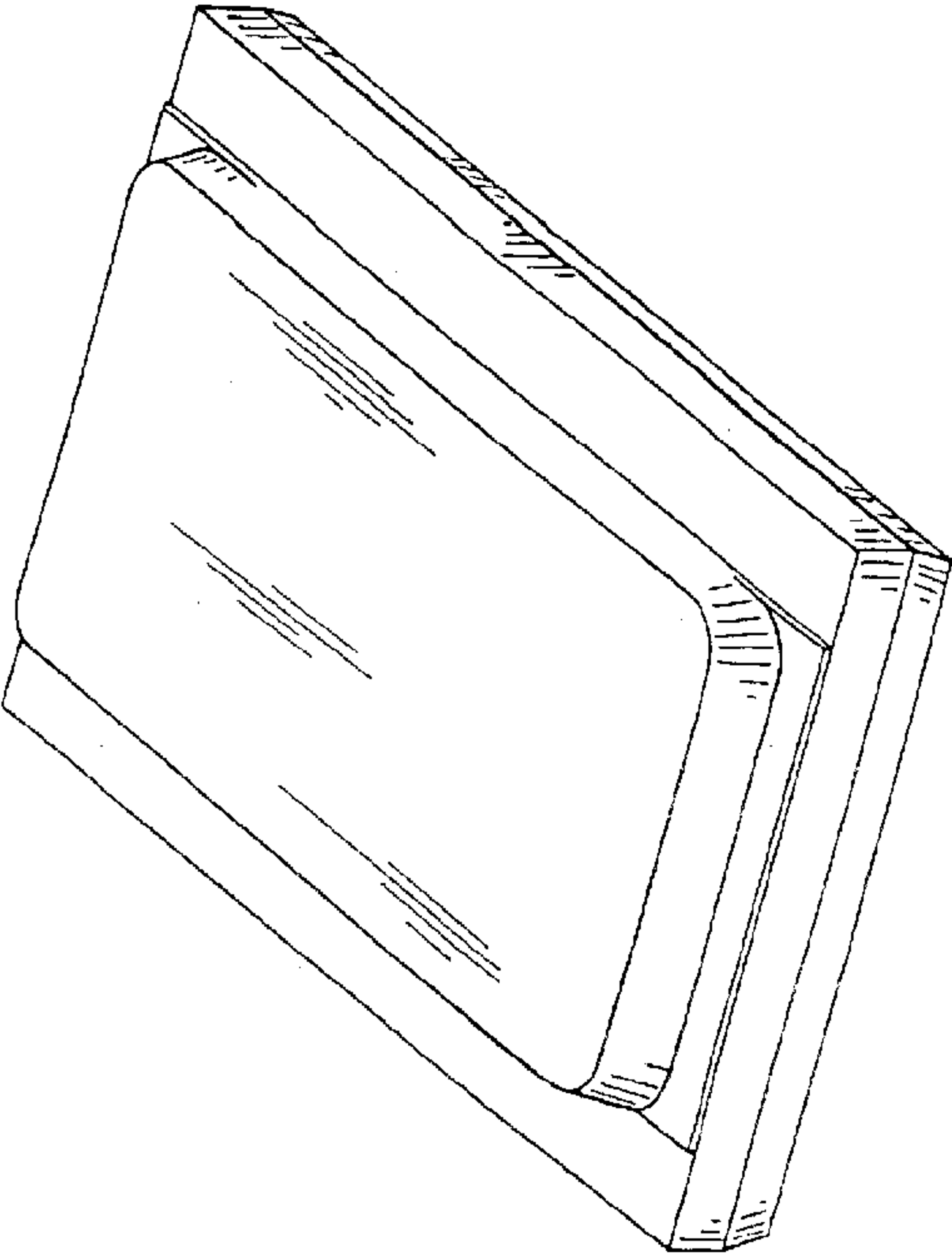


FIG. 85

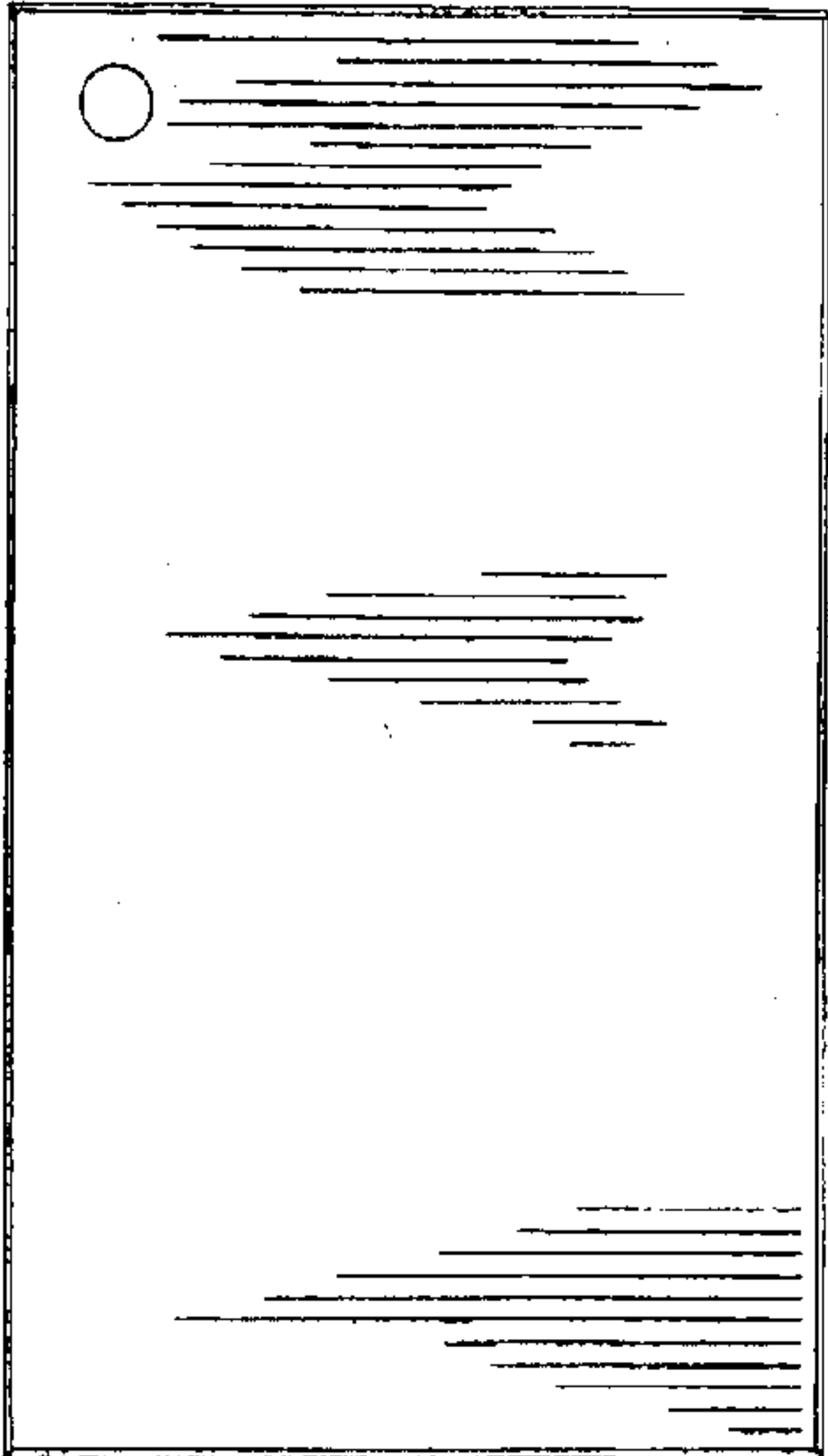


FIG. 86

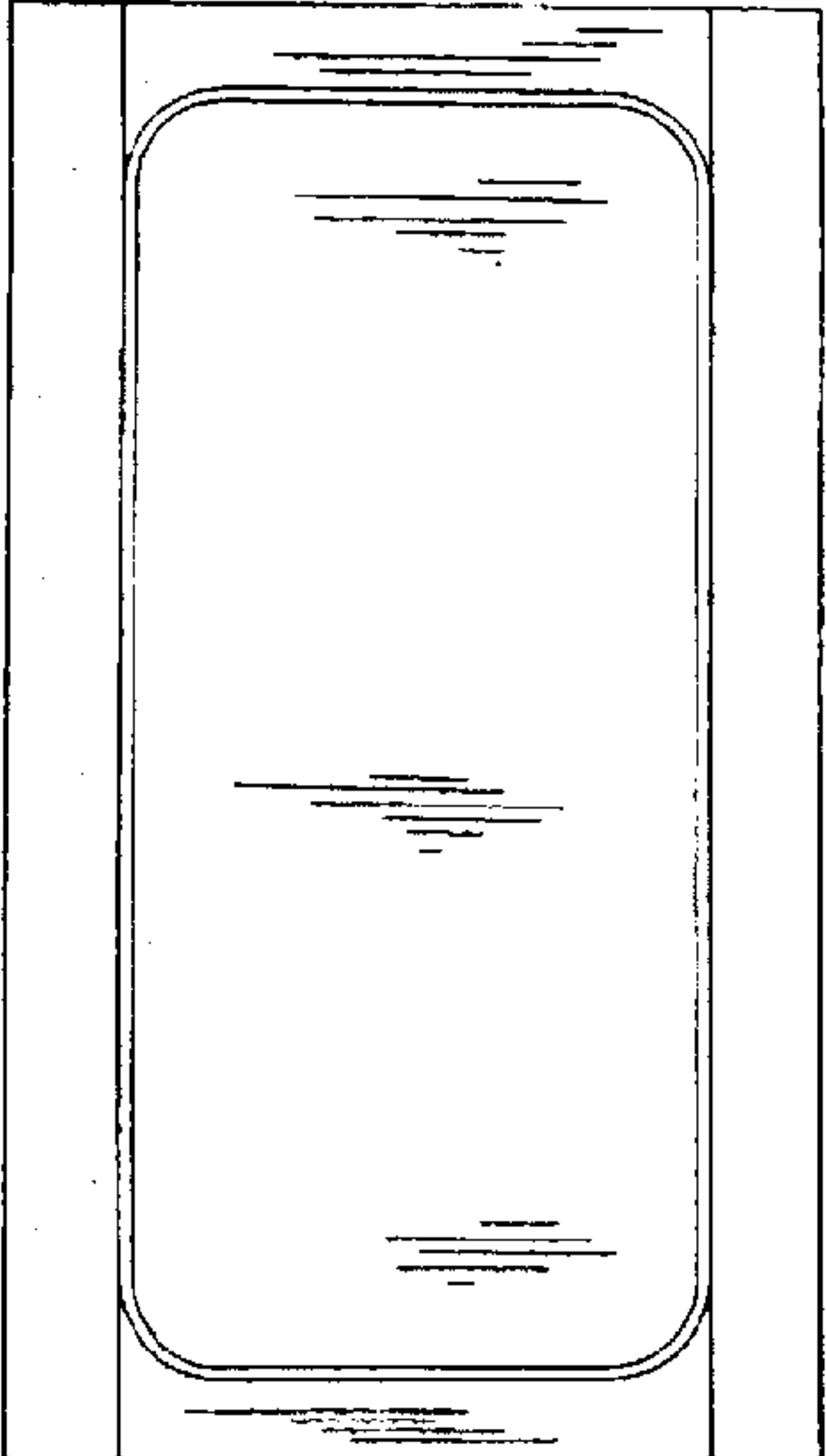


FIG. 87

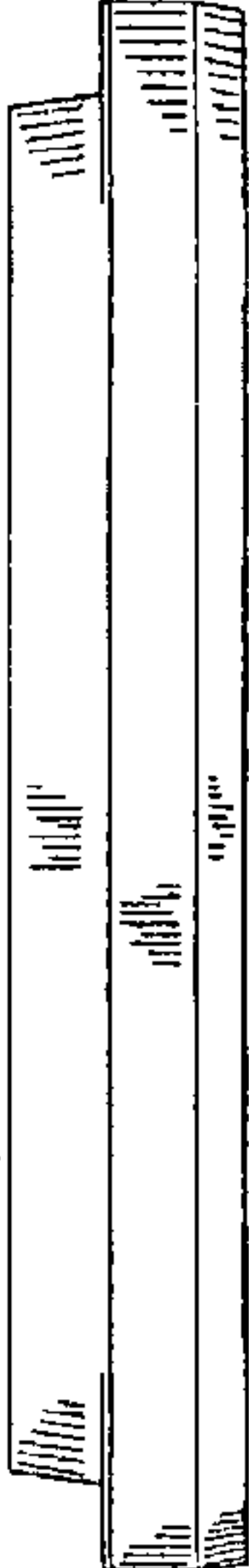


FIG. 88

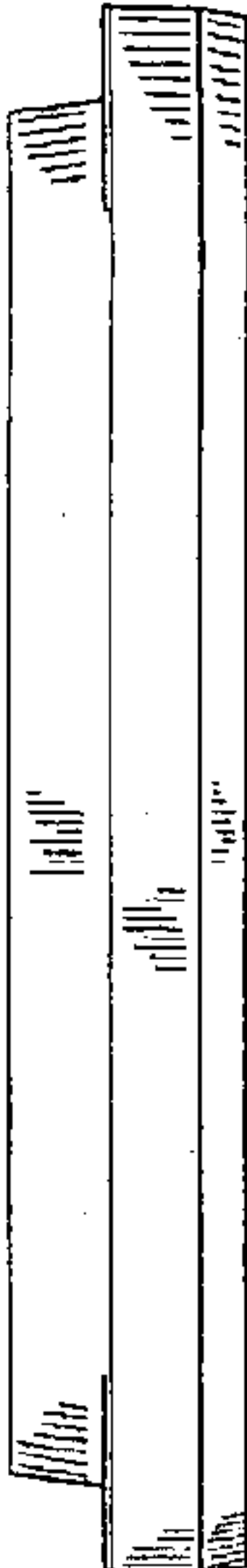


FIG. 89



FIG. 90

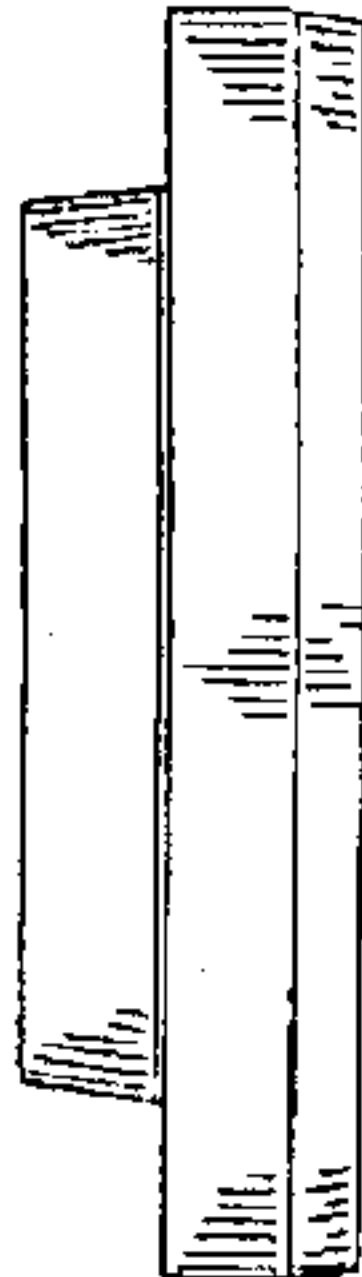


FIG. 91



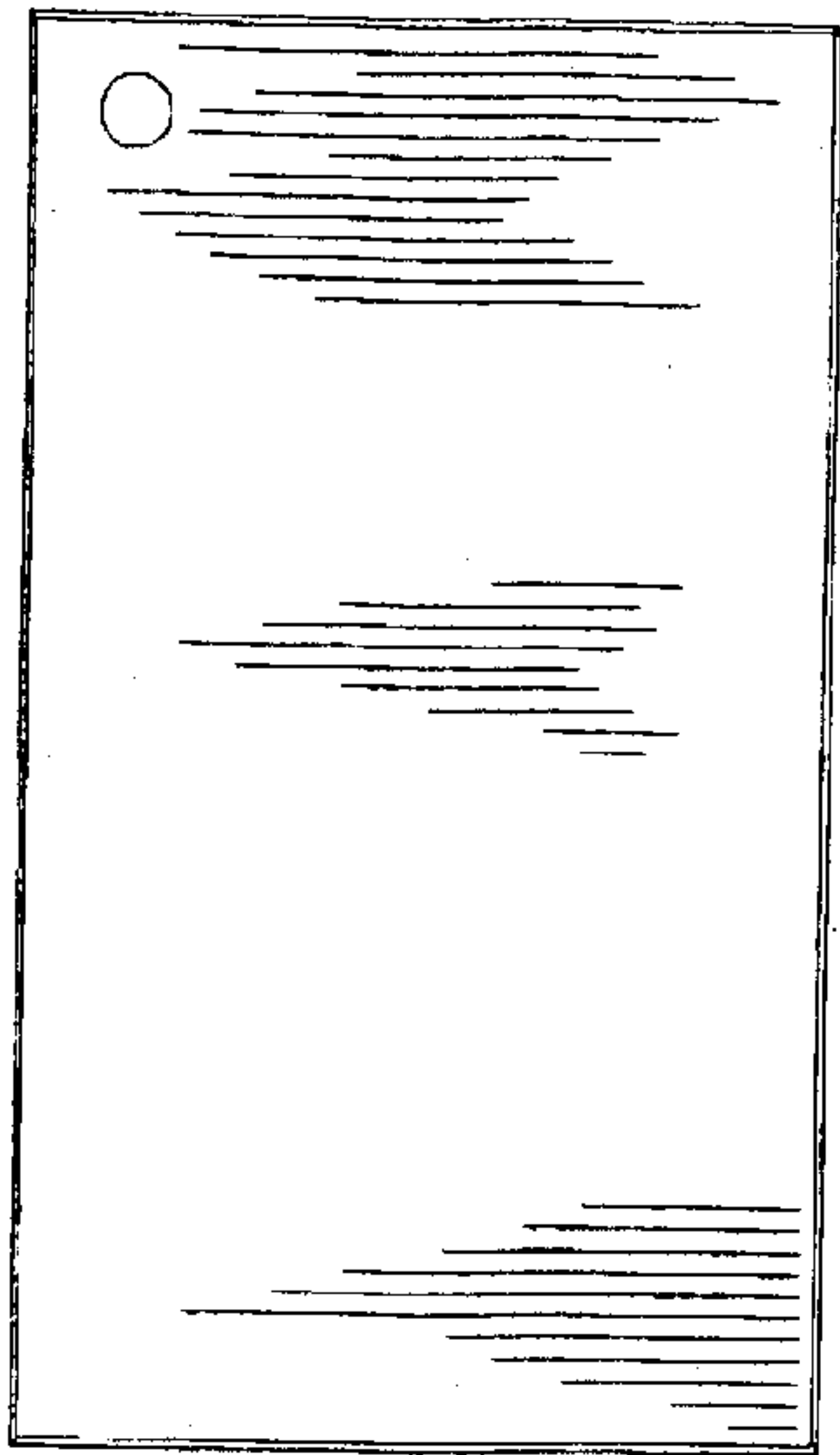


FIG. 93

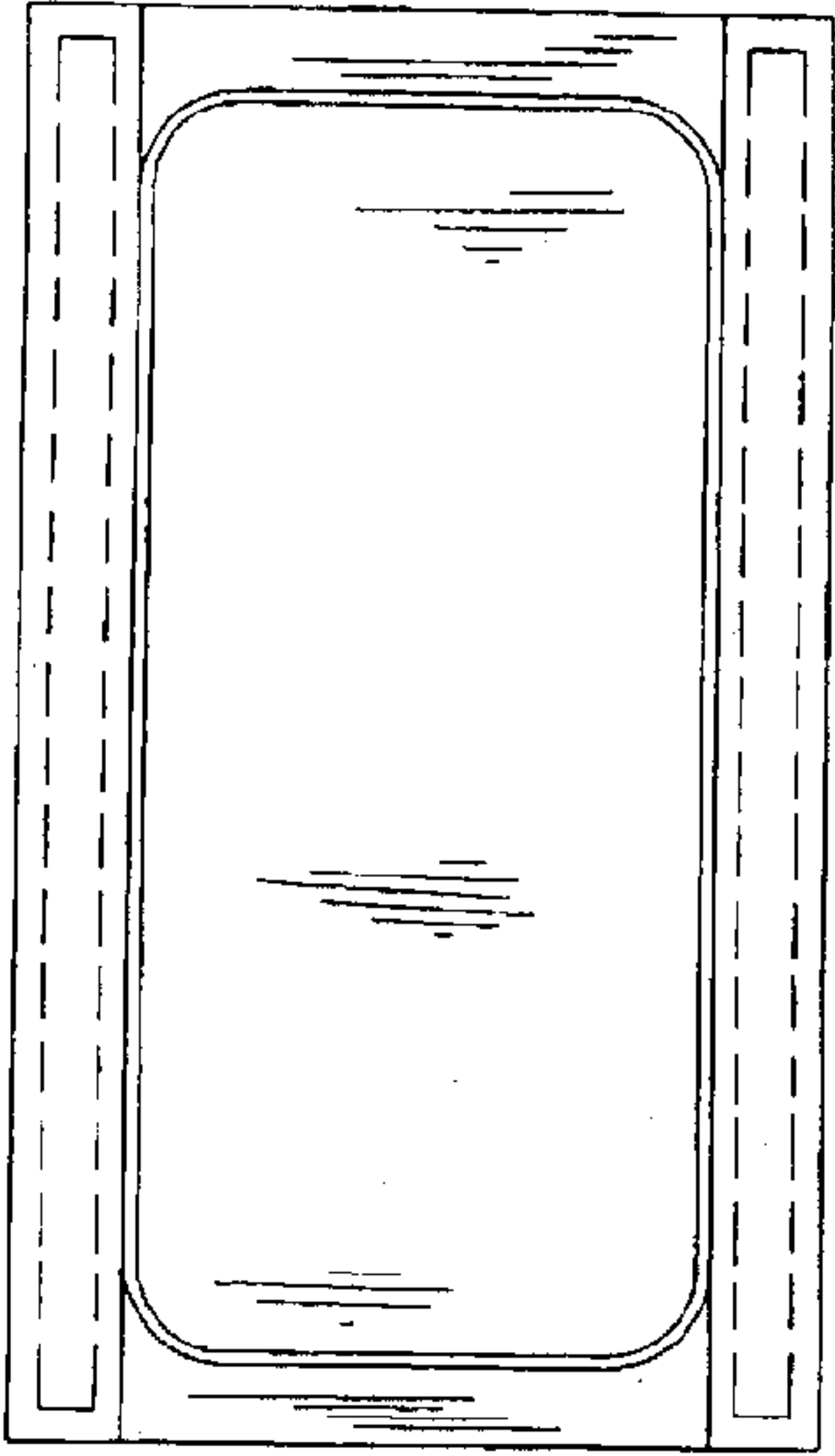


FIG. 94

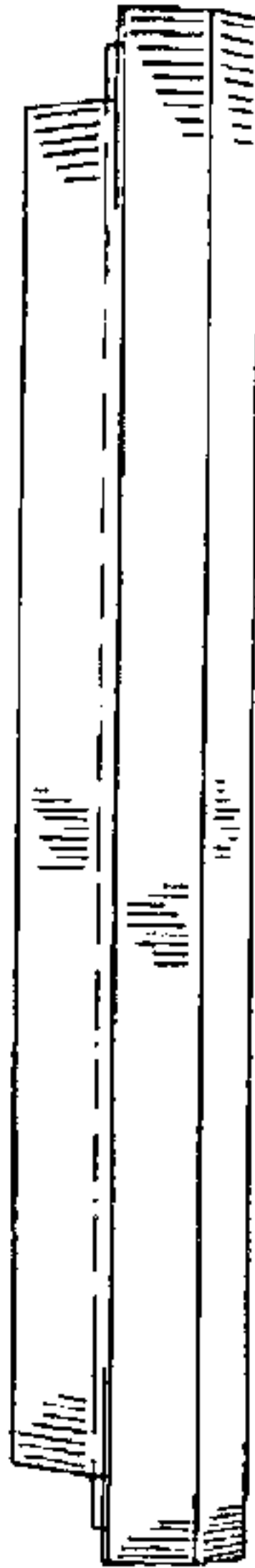


FIG. 95

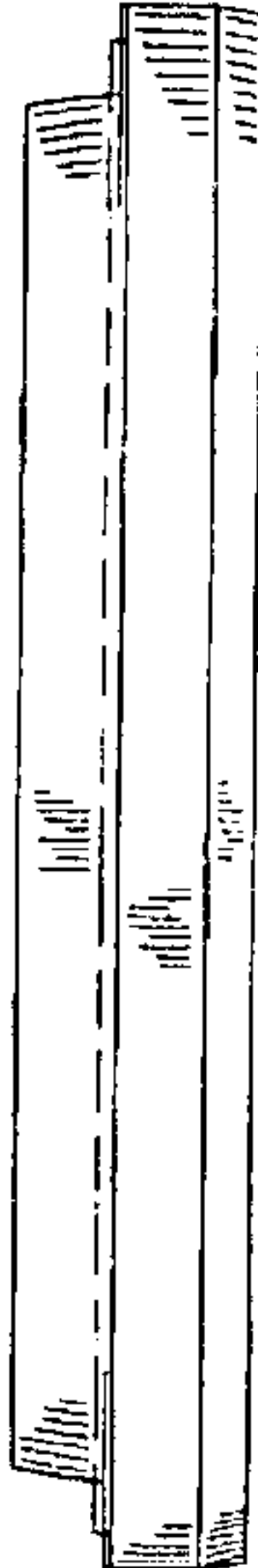


FIG. 96



FIG. 97

FIG. 98

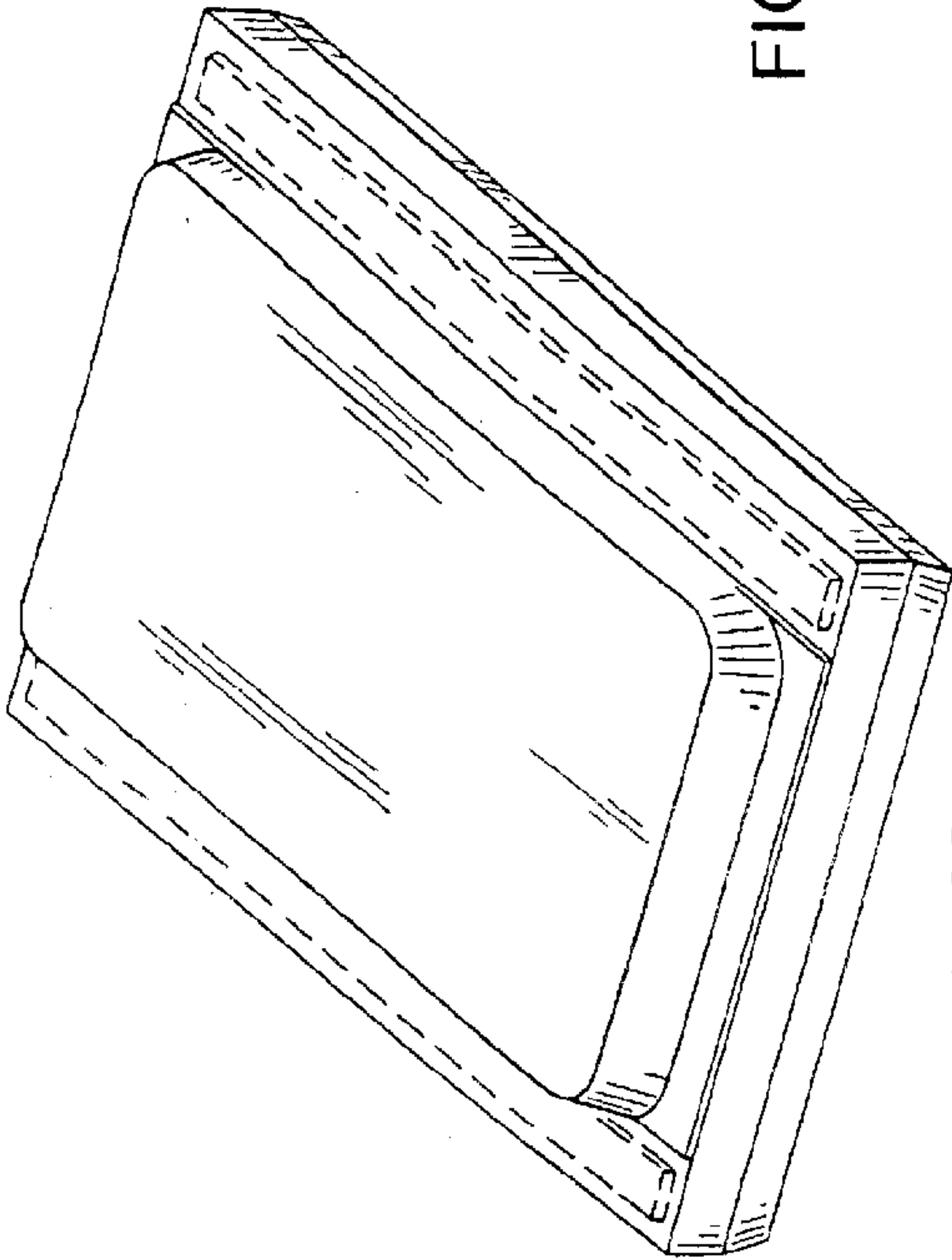


FIG. 92



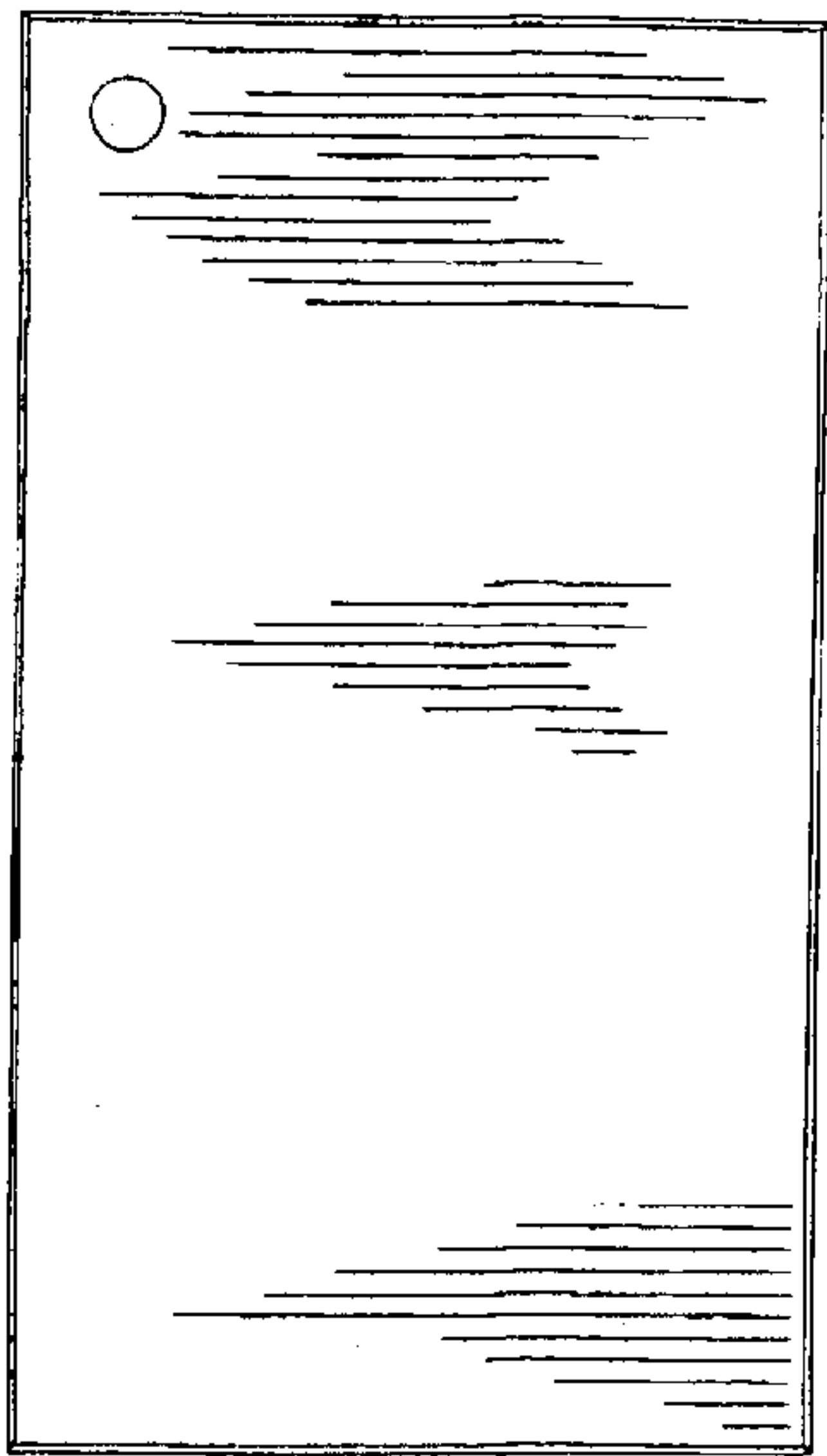


FIG. 100

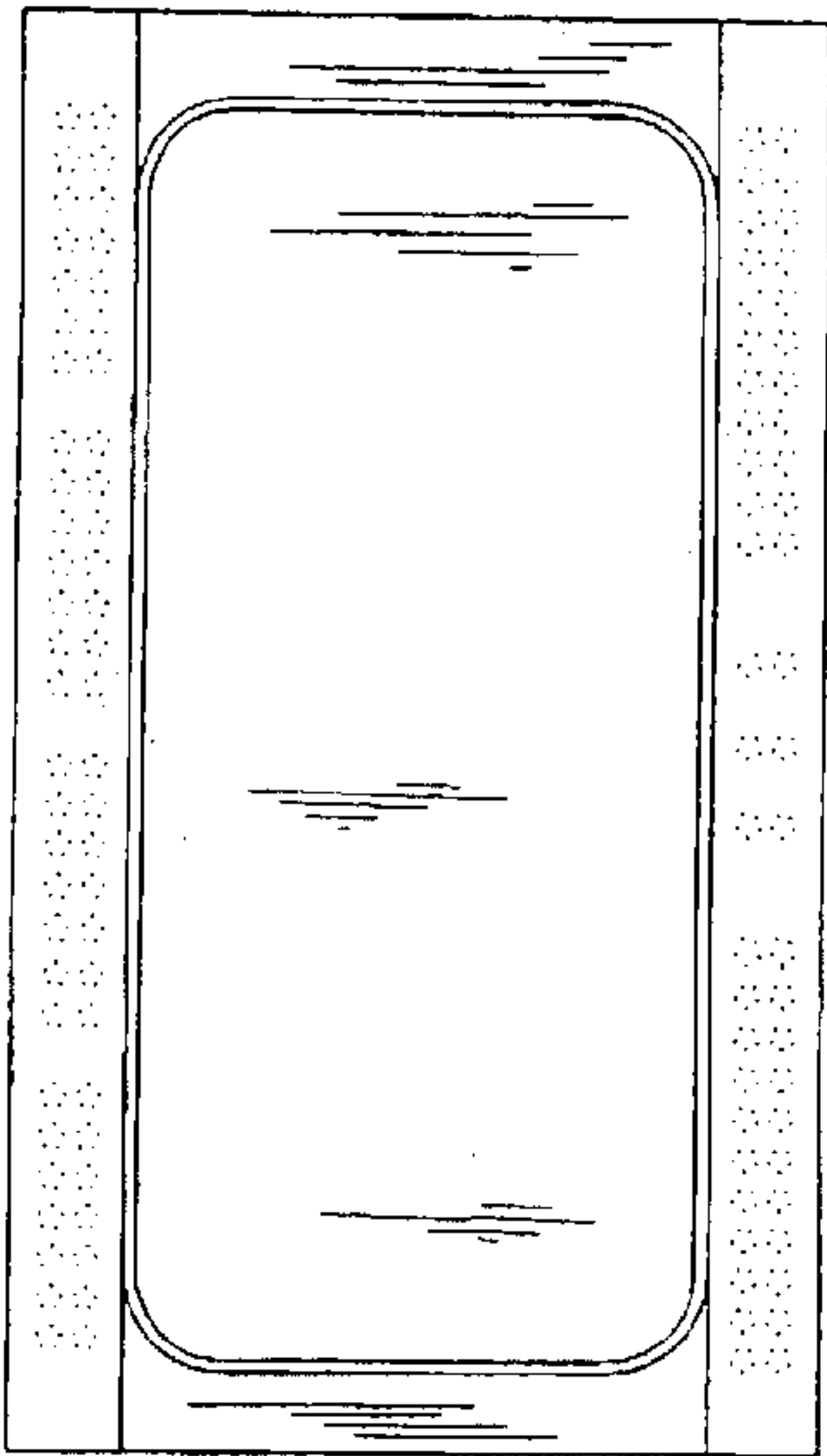


FIG. 101

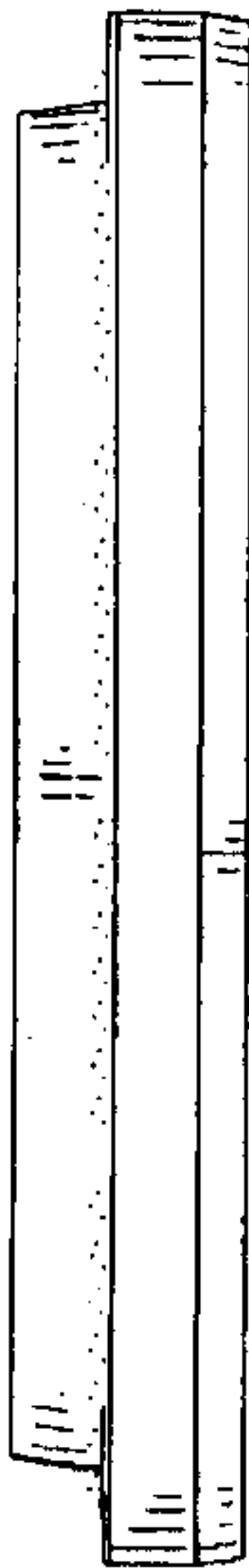


FIG. 102

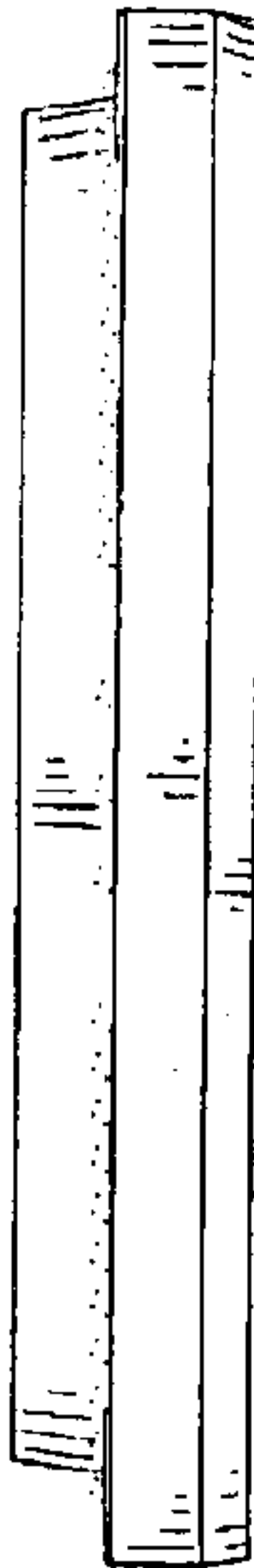


FIG. 103



FIG. 104

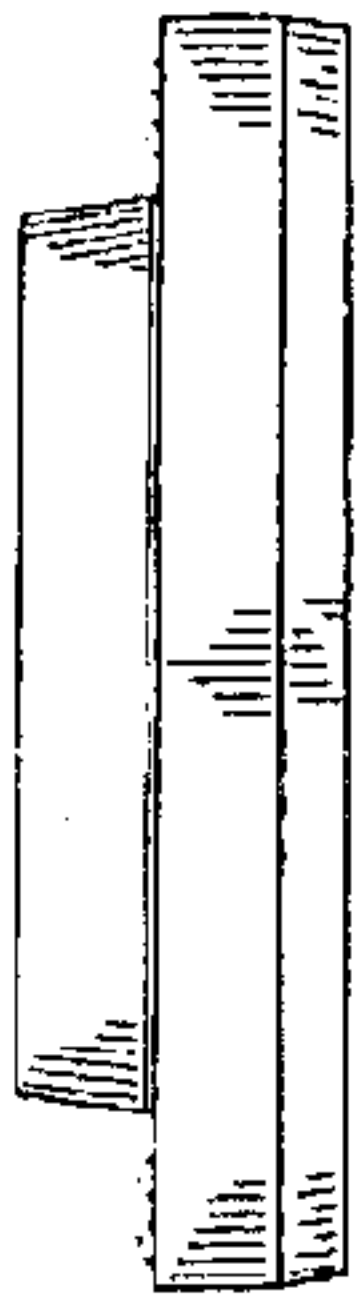


FIG. 105

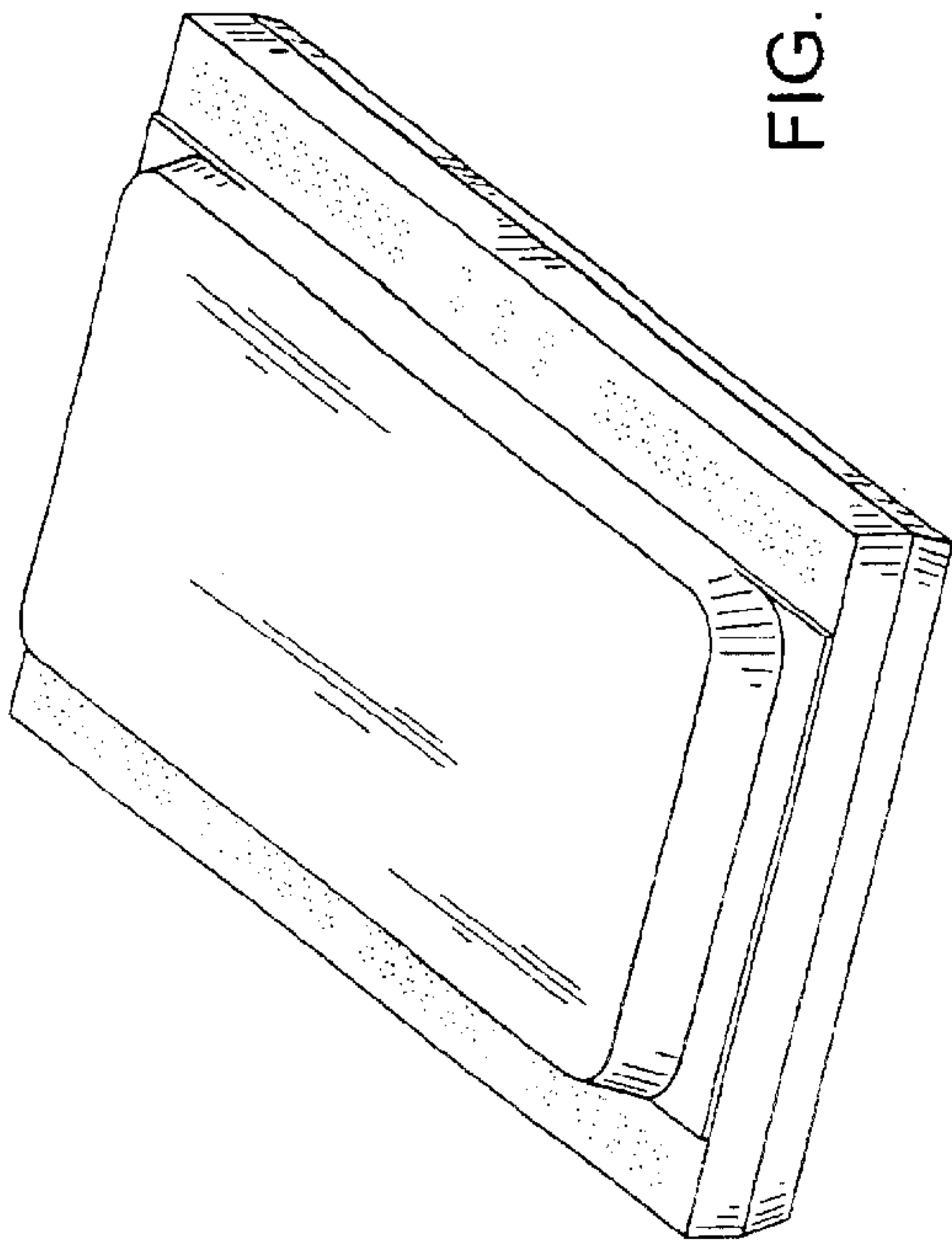


FIG. 99



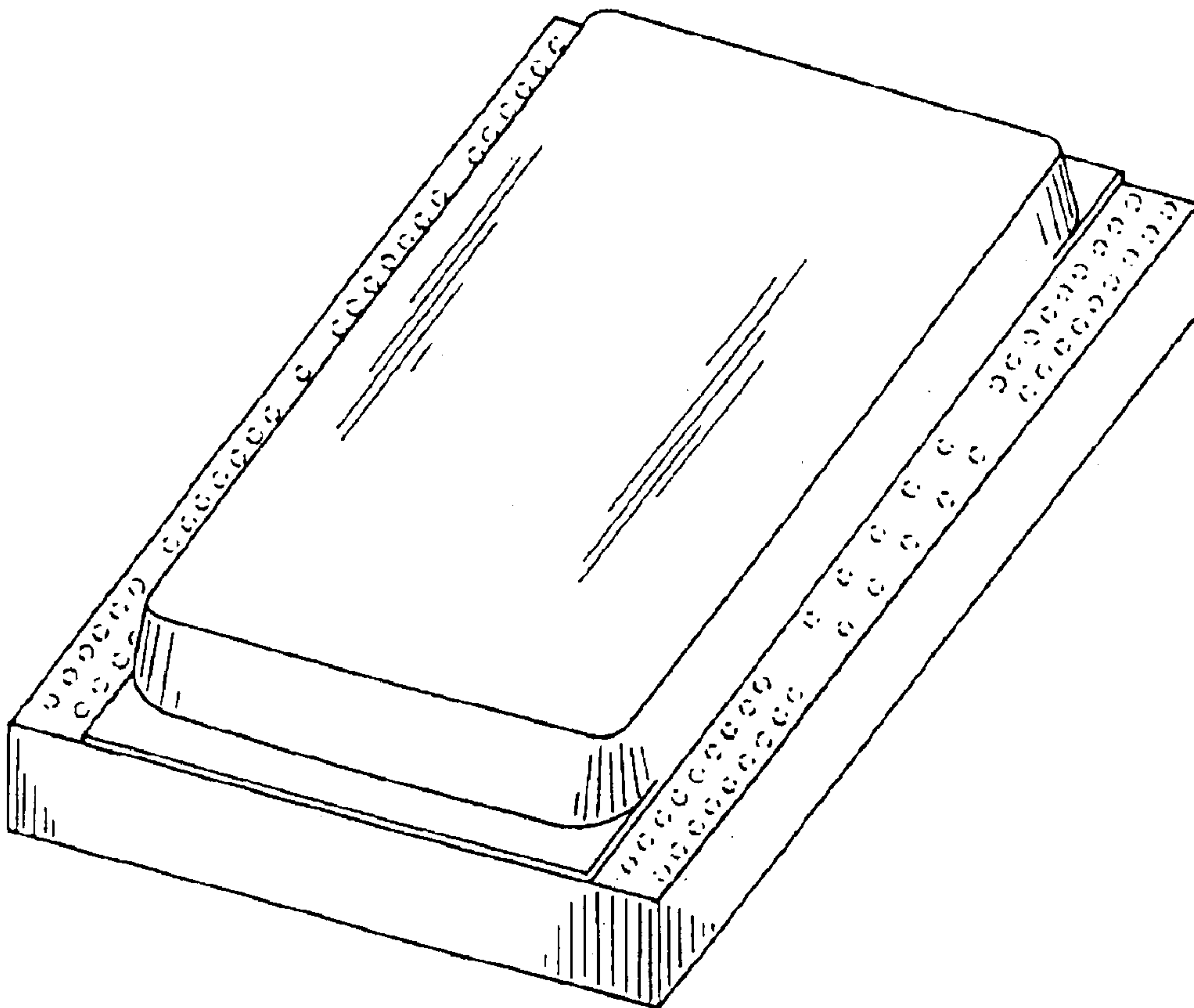


FIG. 106