



US00D724978S

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

(10) **Patent No.:** **US D724,978 S**  
(45) **Date of Patent:** **\*\* Mar. 24, 2015**

(54) **IN-VEHICLE RADAR WITH CAMERA**

73/644, 514.33, 514.34, 510, 513, 527,  
73/530

(71) Applicant: **Honda Elesys Co., Ltd.**, Yokohama-shi,  
Kanagawa-ken (JP)

See application file for complete search history.

(72) Inventors: **Akira Abe**, Yokohama (JP); **Takayuki Kobayashi**, Yokohama (JP)

(56) **References Cited**

(73) Assignee: **Honda Elesys Co., Ltd.**, Yokohama-Shi (JP)

U.S. PATENT DOCUMENTS

D609,589 S \* 2/2010 Nakata et al. .... D10/65  
8,405,726 B2 3/2013 Schofield et al.  
D700,081 S \* 2/2014 Balschweit et al. .... D10/65

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

FOREIGN PATENT DOCUMENTS

(21) Appl. No.: **29/477,038**

JP D1426200 9/2011

(22) Filed: **Dec. 19, 2013**

\* cited by examiner

(51) **LOC (10) Cl.** ..... **10-04**

*Primary Examiner* — Antoine D Davis

(52) **U.S. Cl.**

(74) *Attorney, Agent, or Firm* — Rankin, Hill & Clark LLP

USPC ..... **D10/80**; D10/65

(57) **CLAIM**

(58) **Field of Classification Search**

We claim the ornamental design for an in-vehicle radar with camera, as shown.

CPC ..... G08G 1/096883; G08G 1/096872;  
G08G 1/096775; G01C 21/16; G01C 21/3688;  
G01C 21/30; G01C 21/265; G01C 21/26;  
G01C 21/00; G01C 21/3632; G01C 21/3617;  
G01C 25/005; G01C 21/3664; G01P 3/22;  
G01P 3/50; G01P 15/18; G06F 3/04  
USPC ..... D10/65, 70; 343/702; 345/87, 104, 133,  
345/156, 168, 173, 901–905, 165; 348/180,  
348/184, 315, 739, 836, 838, 325; 364/444,  
364/499; 701/408–418, 431, 432, 537, 1,  
701/454, 428, 440, 400, 491, 526, 455, 444,  
701/36, 541, 487; 312/7.2; 341/12;  
720/605, 669, 600, 655; 369/99, 197;  
455/344, 347, 575.1; 250/221, 338.3,  
250/340, 239, 342, 341, DIG. 1, 353, 338.1;  
307/116, 117, 9.1, 10.1; 340/521, 527,  
340/541, 567, 540, 568.2, 539.23, 635, 687,  
340/425.5, 815.4, 901, 988, 989, 990, 992,  
340/995.1, 562, 815.45; 315/159; 324/72.5,  
324/556, 133, 149, 503, 543, 555, 66, 72,  
324/754, 115, 141, 522; 73/615, 624, 627,

**DESCRIPTION**

FIG. 1 is a top-left perspective view of an in-vehicle radar with camera.  
FIG. 2 is a bottom-left perspective view of the in-vehicle radar with camera.  
FIG. 3 is a front elevation view thereof.  
FIG. 4 is a rear elevation view thereof.  
FIG. 5 is a left-side view thereof.  
FIG. 6 is a right-side view thereof.  
FIG. 7 is a top plan view thereof; and,  
FIG. 8 is a bottom plan view thereof.  
The in-vehicle radar with camera is used by being mounted, for example, on a windshield of an automobile. The in-vehicle radar with camera irradiates an object outside the automobile with a radar beam, receives a radar reflection beam from the object, and takes a picture of the object outside the automobile by the camera.

**1 Claim, 6 Drawing Sheets**

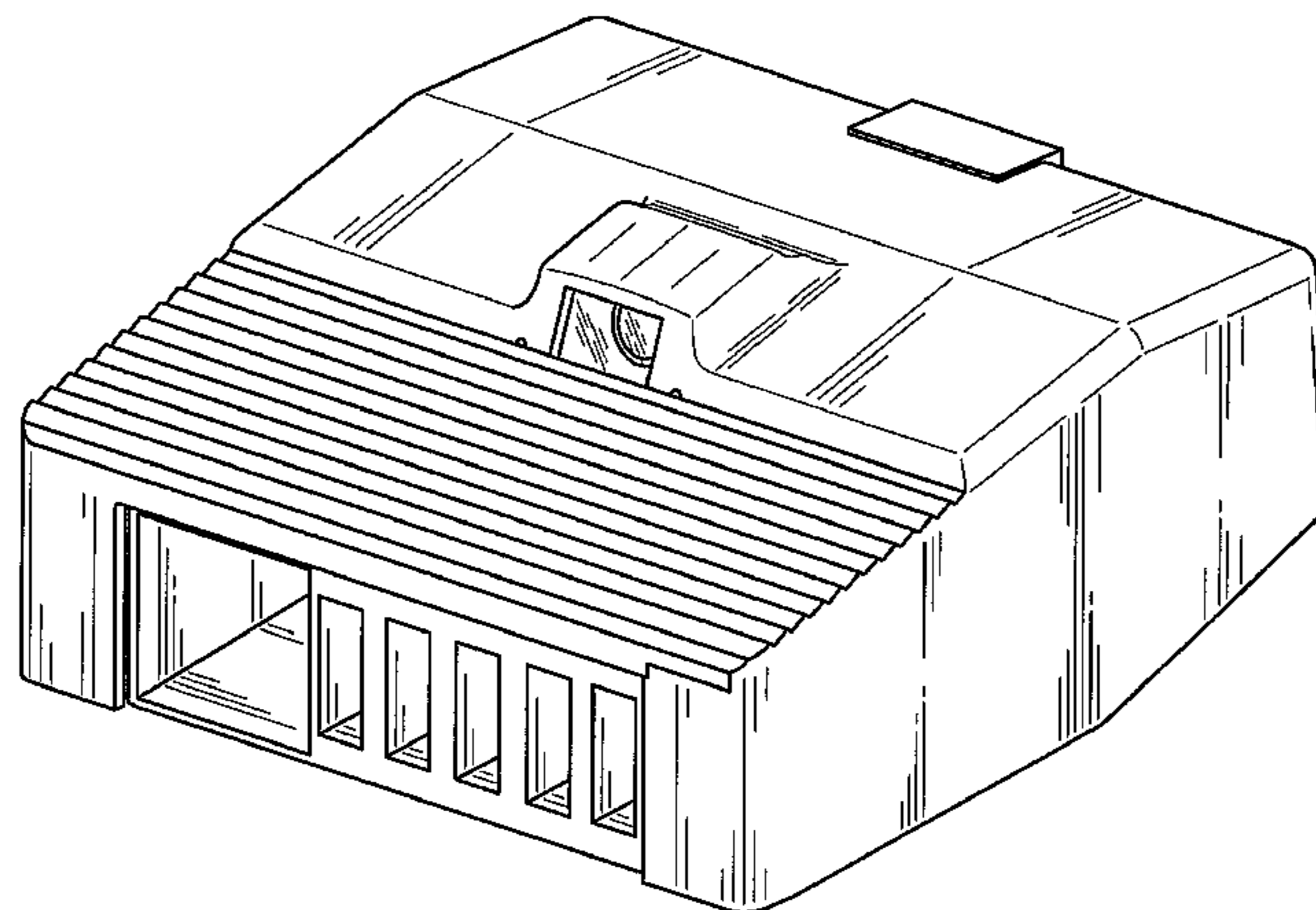


FIG. 1

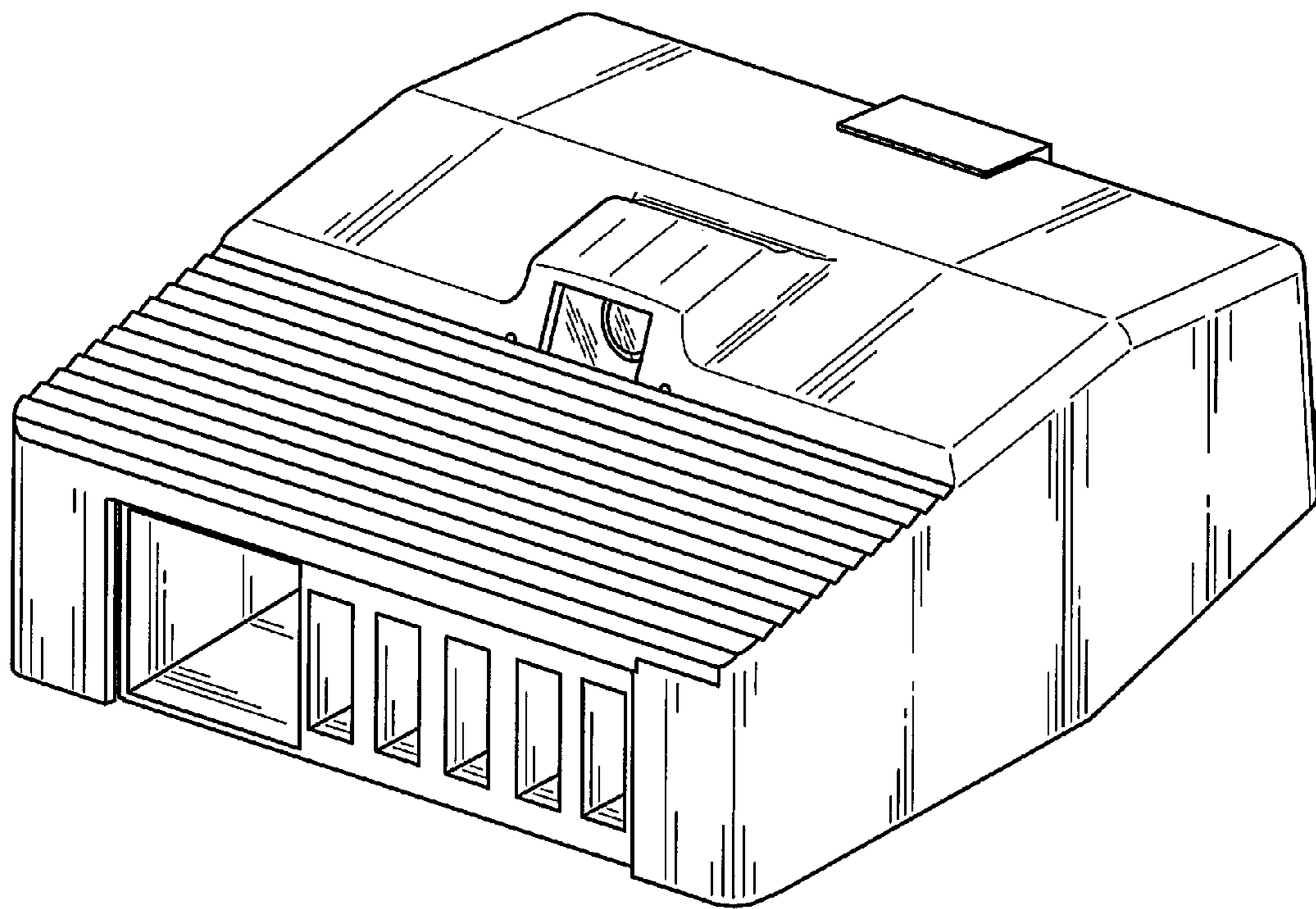


FIG.2

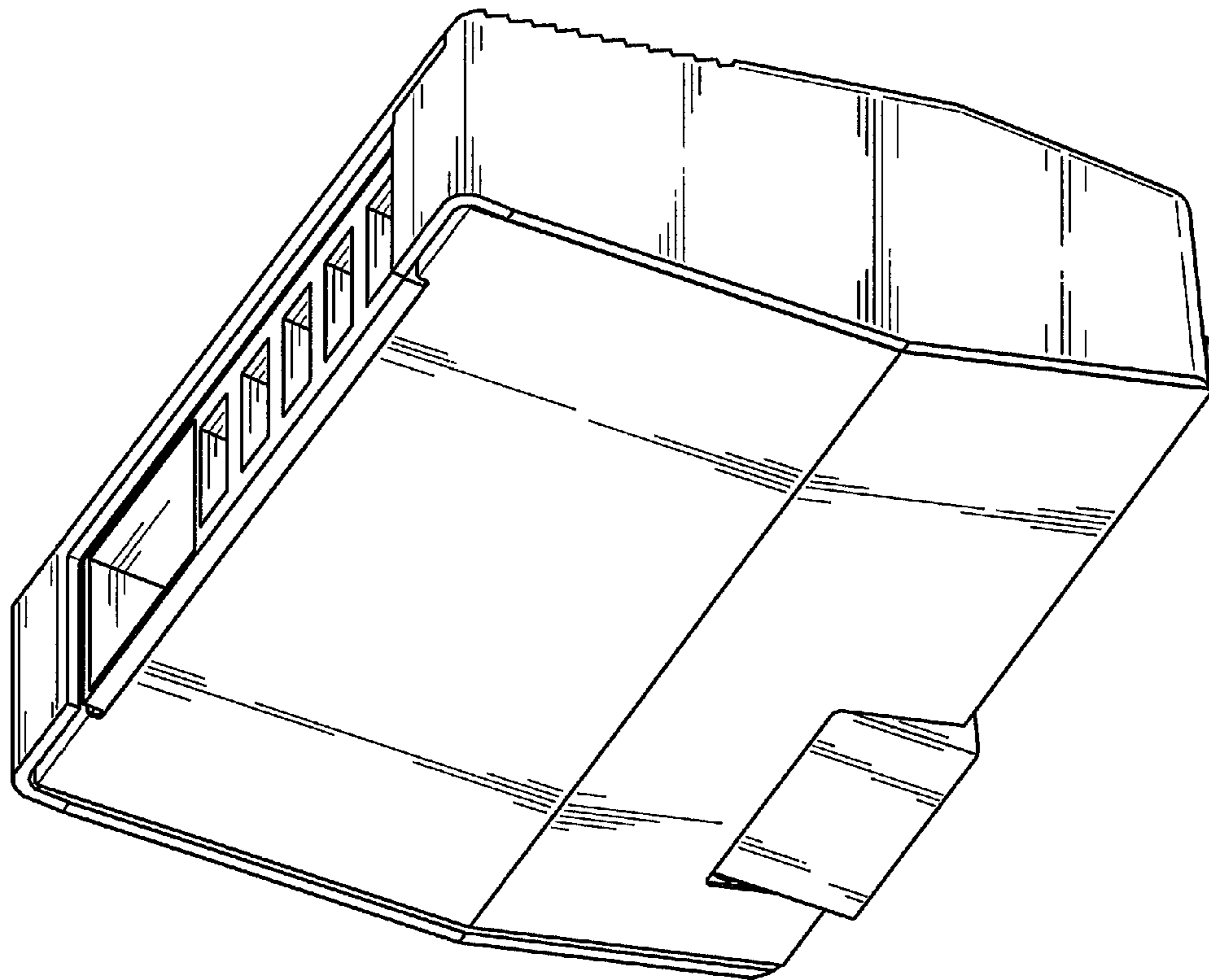


FIG.3

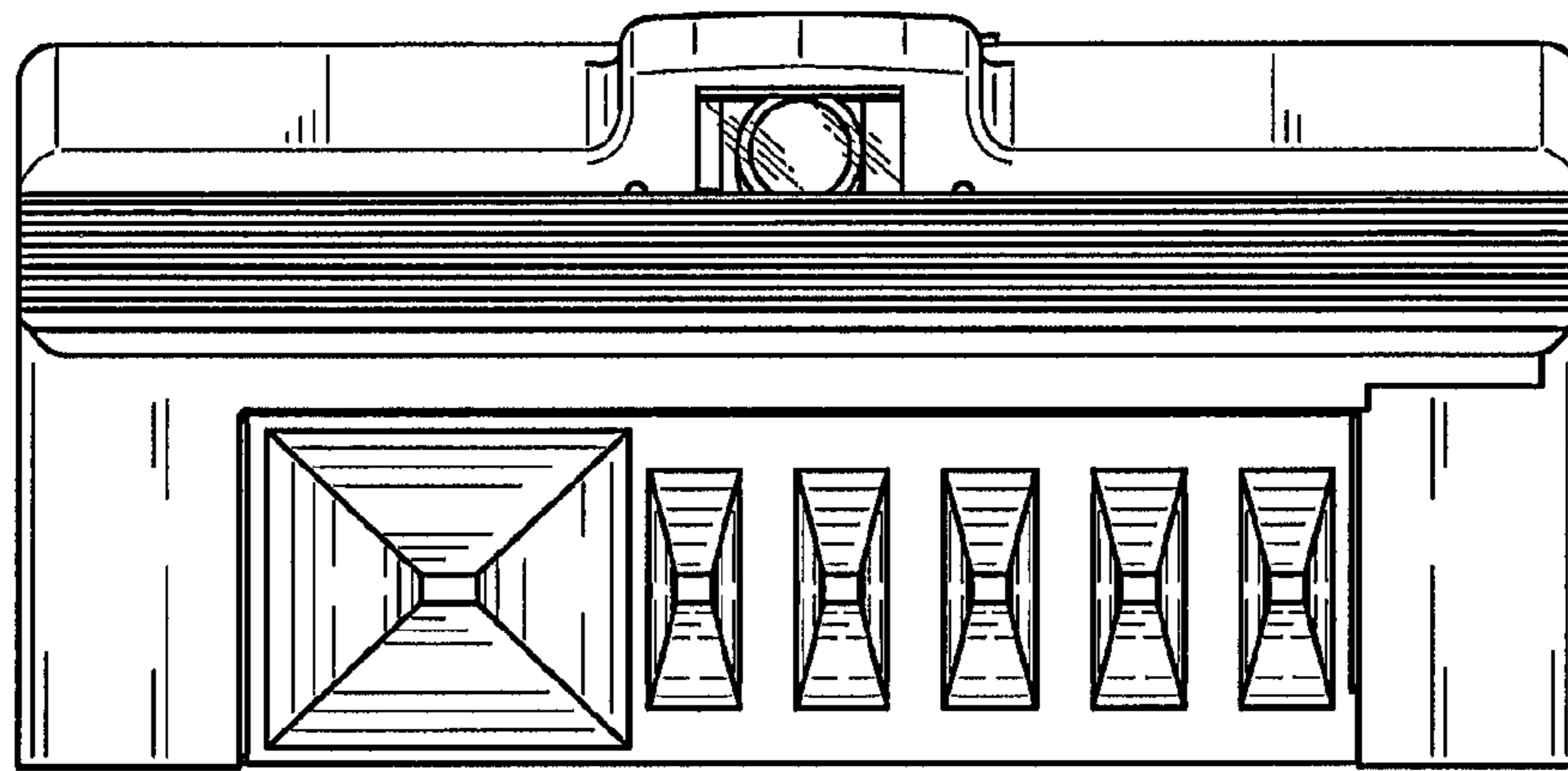


FIG.4

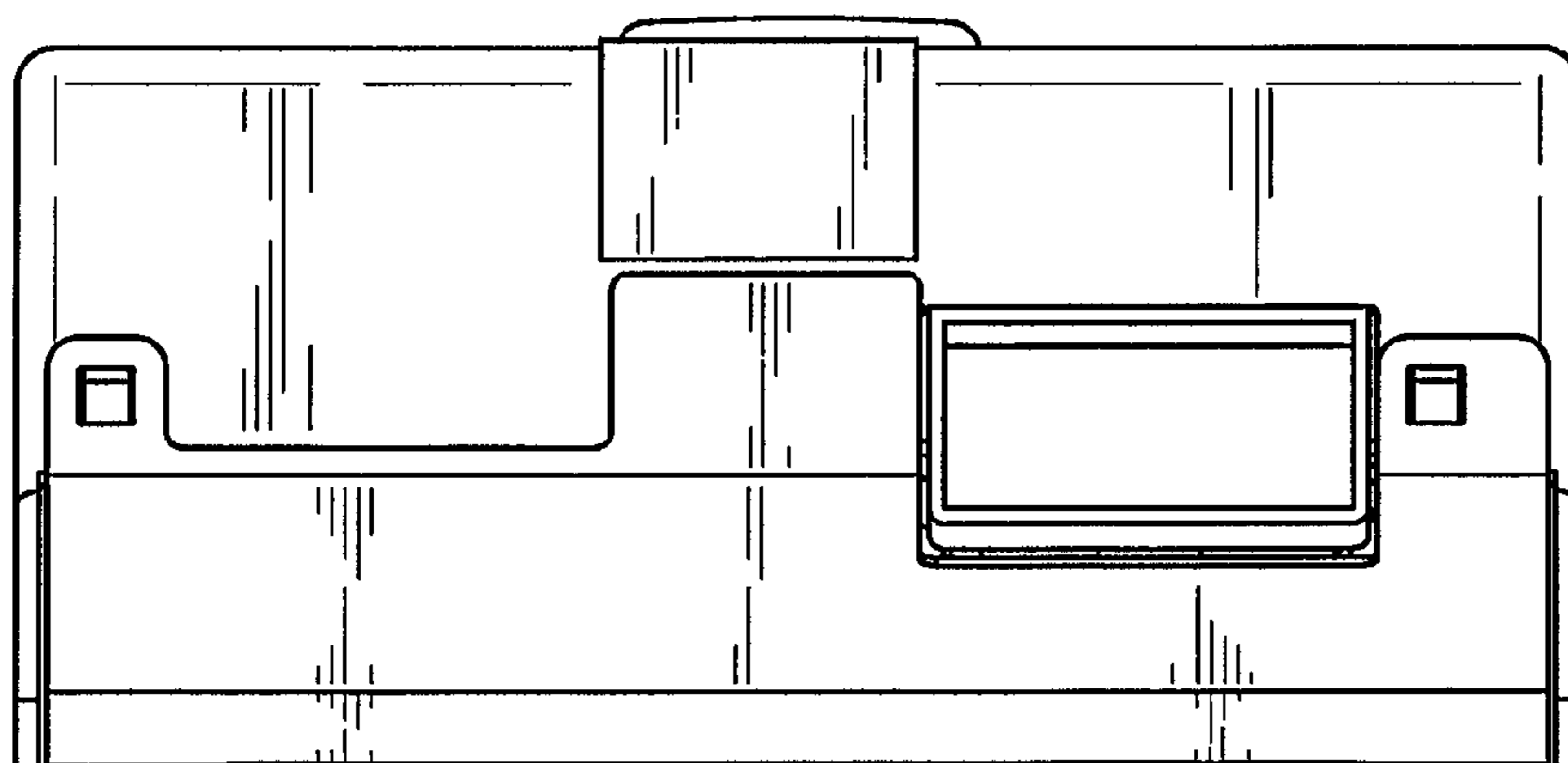


FIG.5

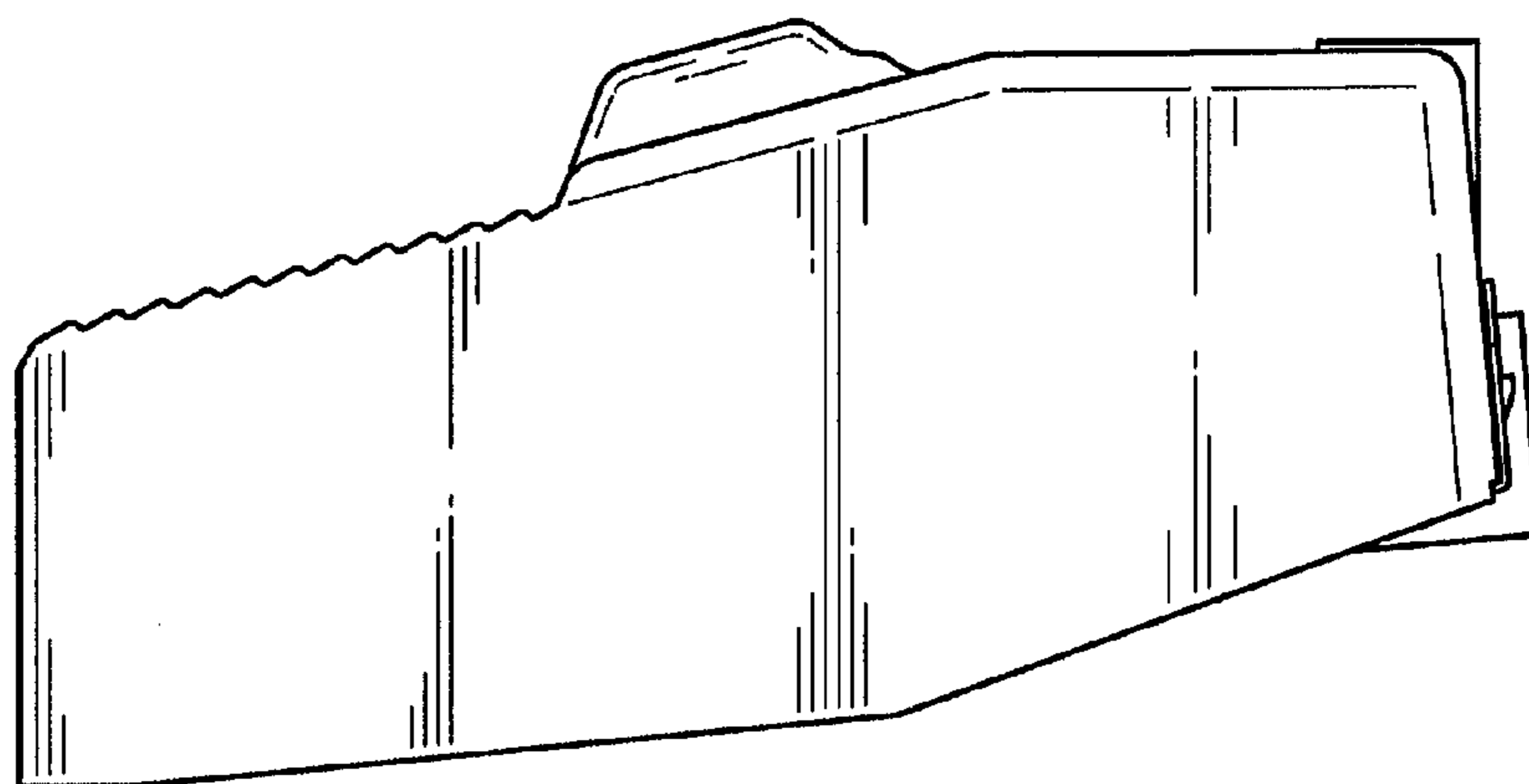


FIG.6

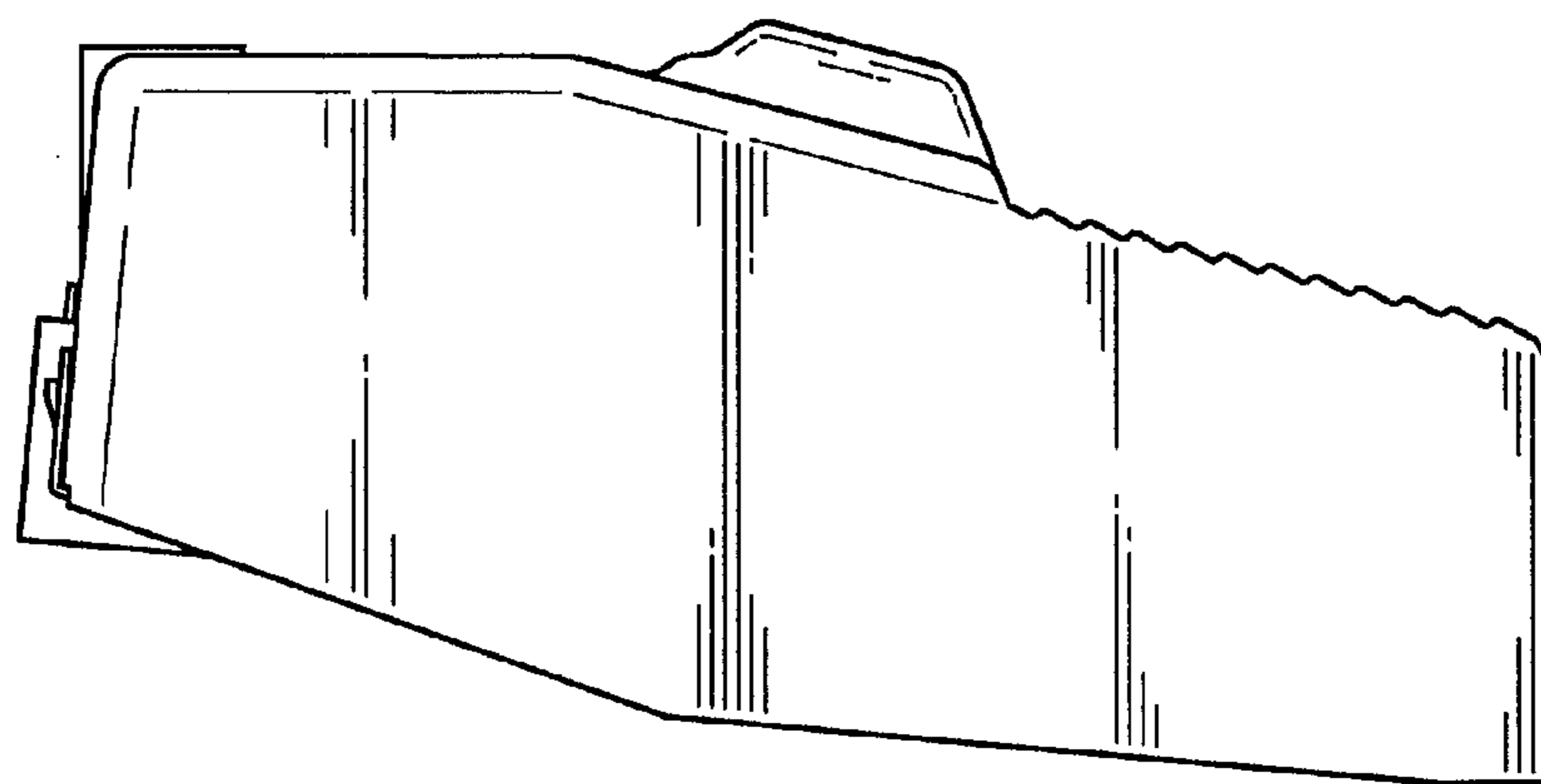


FIG. 7

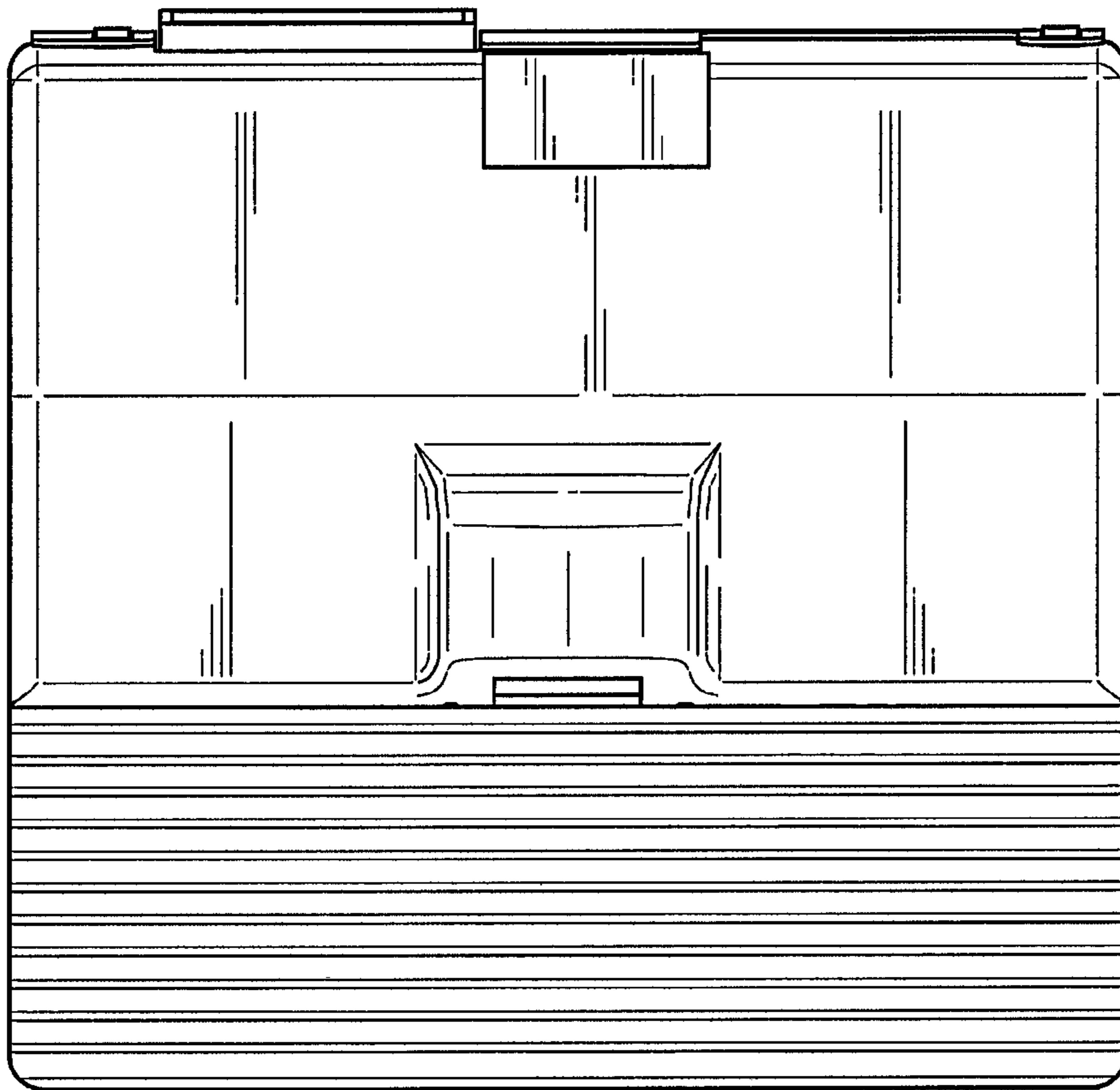


FIG.8

