

US00D906402S

(12) **United States Design Patent** (10) **Patent No.:** **US D906,402 S**
So (45) **Date of Patent:** **** Dec. 29, 2020**

(54) **3D MODULATOR FOR A PROJECTOR**

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (12) Cl.** **16-02**

(52) **U.S. Cl.**
USPC **D16/229; D16/225**

(58) **Field of Classification Search**
USPC D16/221, 222, 225, 229, 235, 230–231,
D16/234, 241; 353/119, 122, 7
CPC G03B 21/145; G03B 21/00; H04N 13/00;
H04N 13/122; G02B 30/22; G02B 30/24;
G02B 30/35; G02B 30/50
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,464,358 B1 * 10/2002 Shirakura G03B 21/00
353/119
D518,081 S * 3/2006 Peard D16/225

D545,341 S * 6/2007 Salvatori D16/235
D617,361 S * 6/2010 Simonsen D16/225

* cited by examiner

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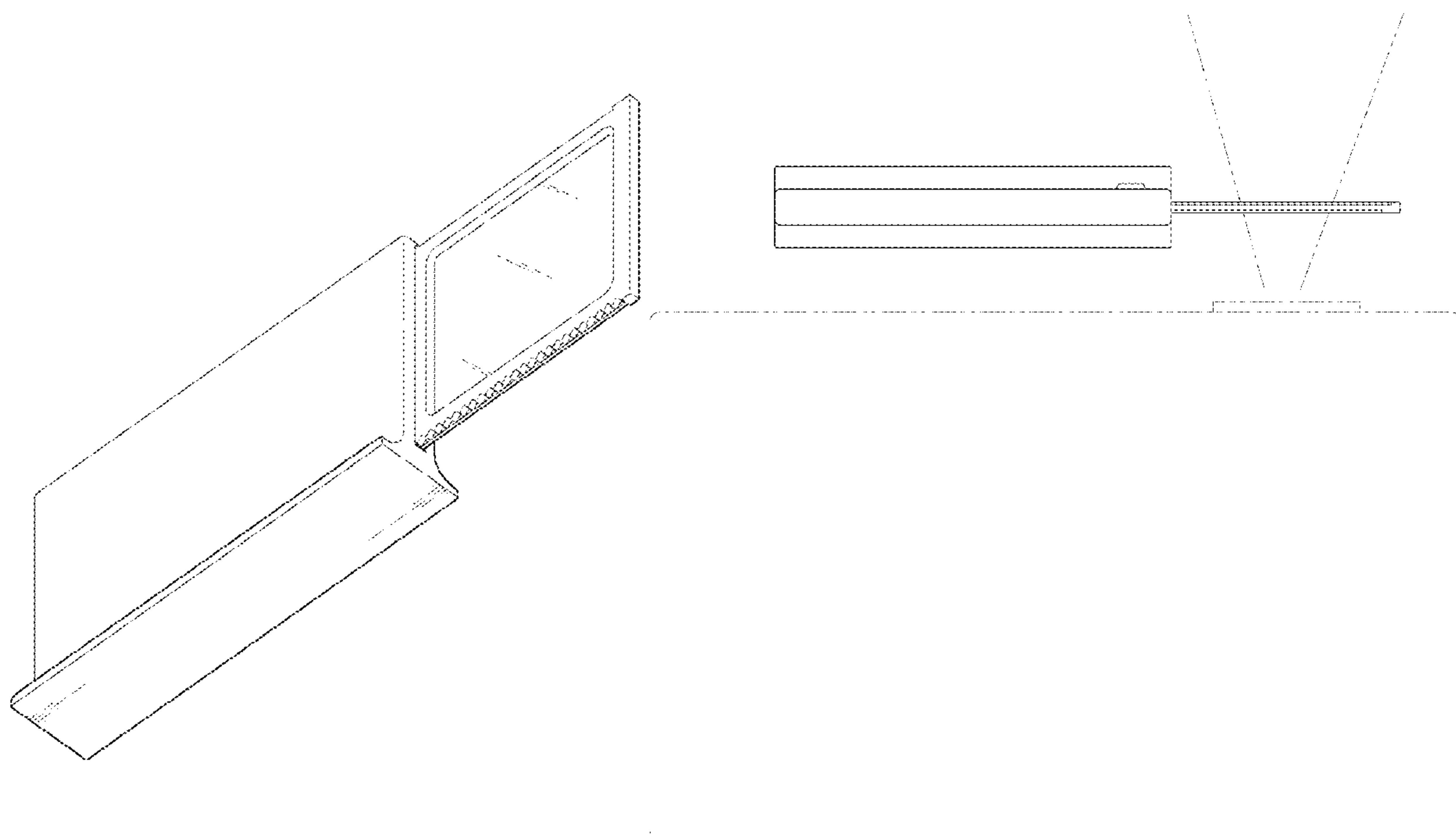
(57) **CLAIM**

The ornamental design for a 3D modulator for a projector,
as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a 3D modulator for a projector which embodies my new and original design;
FIG. 2 is a front elevation view thereof;
FIG. 3 is a rear elevation view thereof;
FIG. 4 is a left side elevation view thereof;
FIG. 5 is a right side elevation view thereof;
FIG. 6 is a top plan view thereof;
FIG. 7 is a bottom plan view thereof;
FIG. 8 is a perspective view thereof showing retraction of the 3D modulator; and,
FIG. 9 is a top plan view thereof showing the 3D modulator positioned operatively adjacent a projector.
The broken line showing the projector in FIG. 9 is for the purpose of illustrating environmental structure and forms no part of the claimed design.

1 Claim, 6 Drawing Sheets



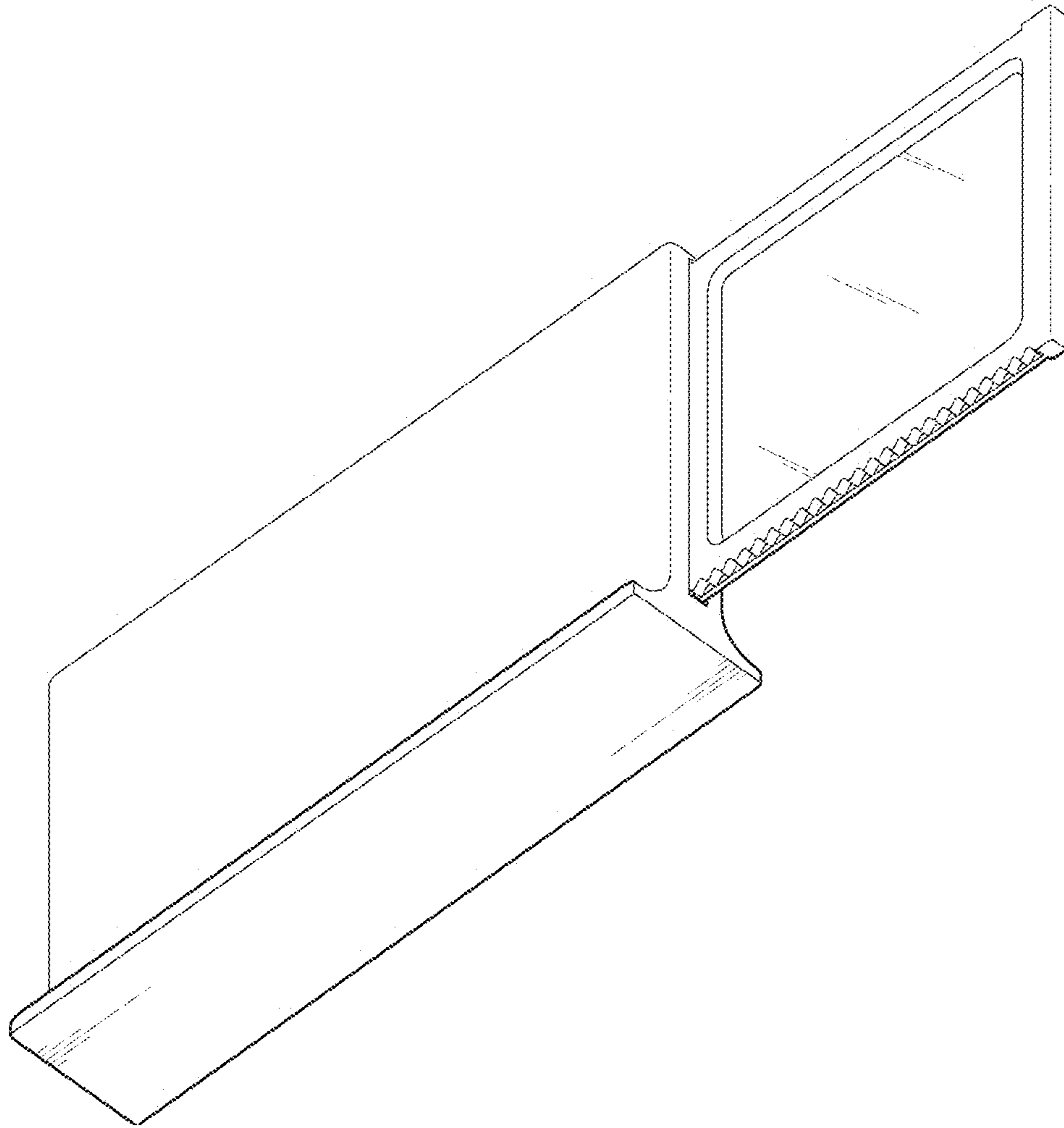


FIG. 1

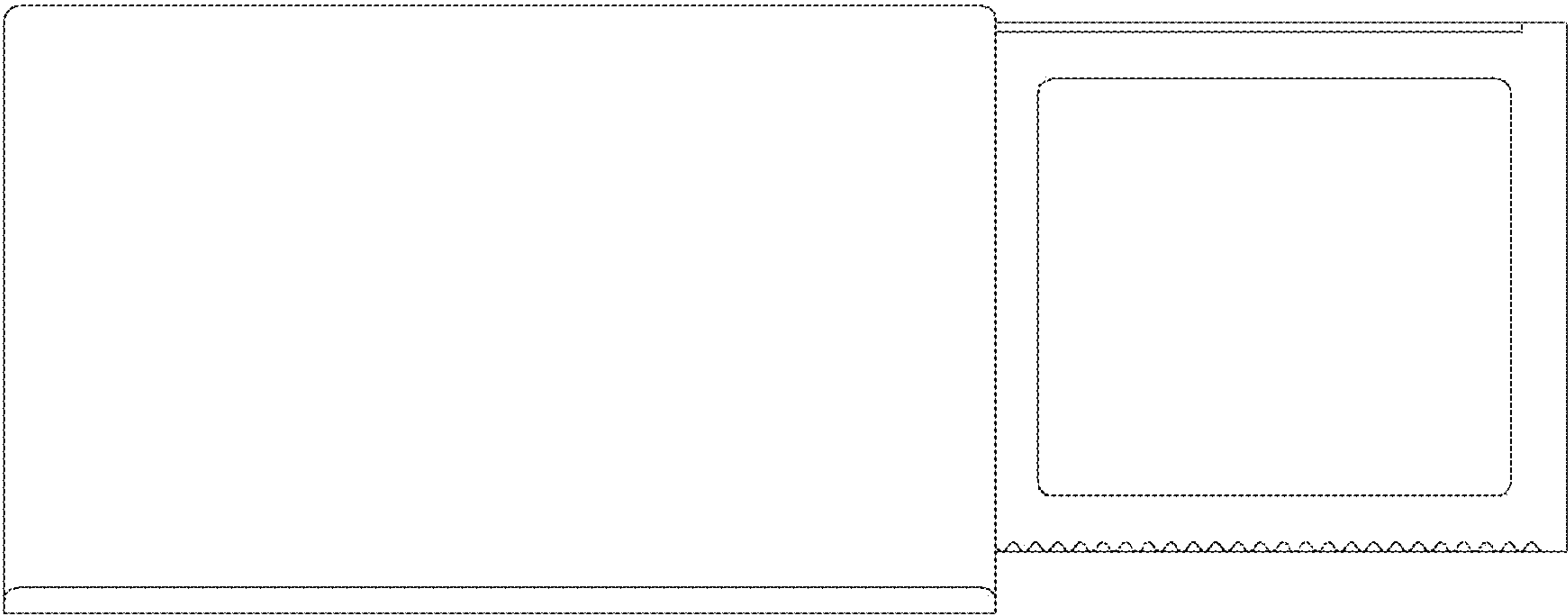


FIG. 2

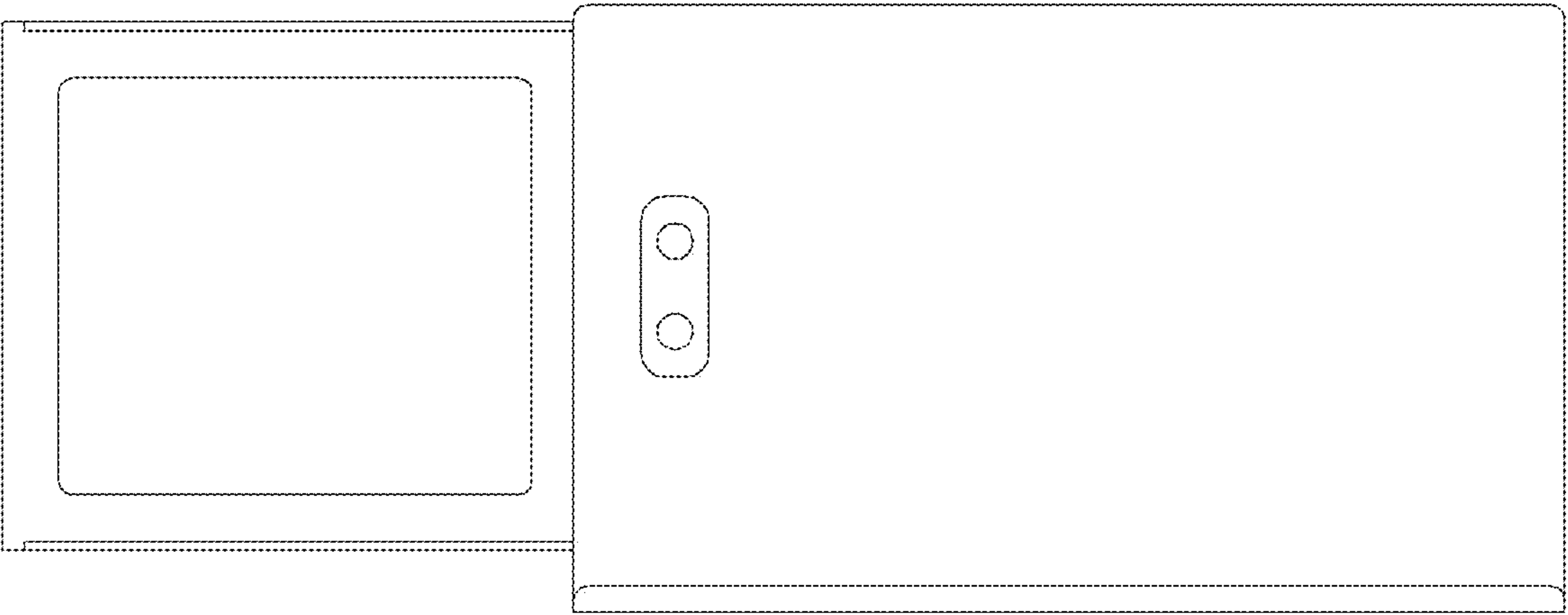


FIG. 3

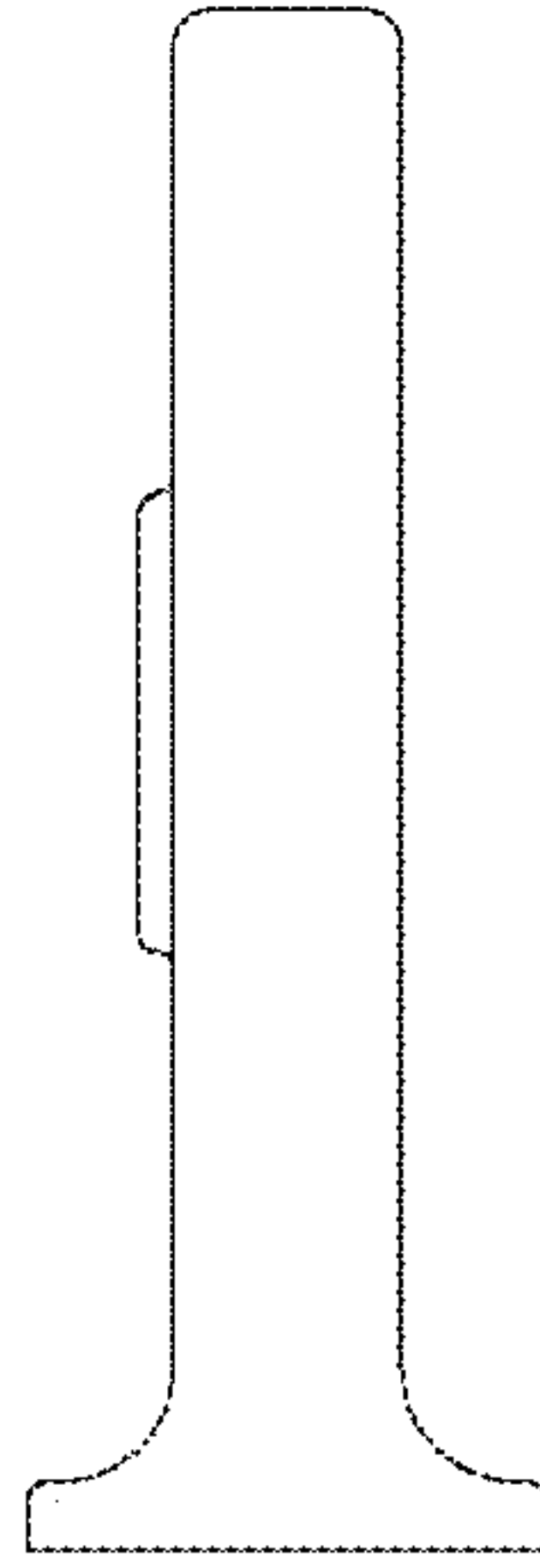


FIG. 4

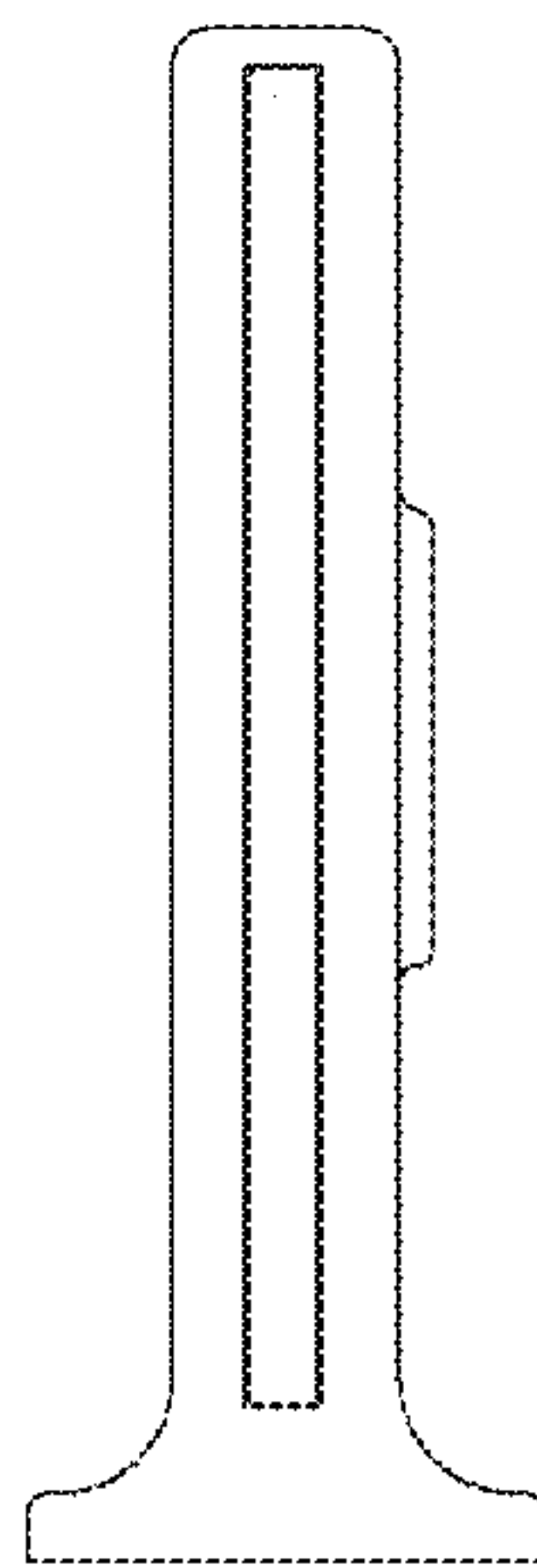


FIG. 5

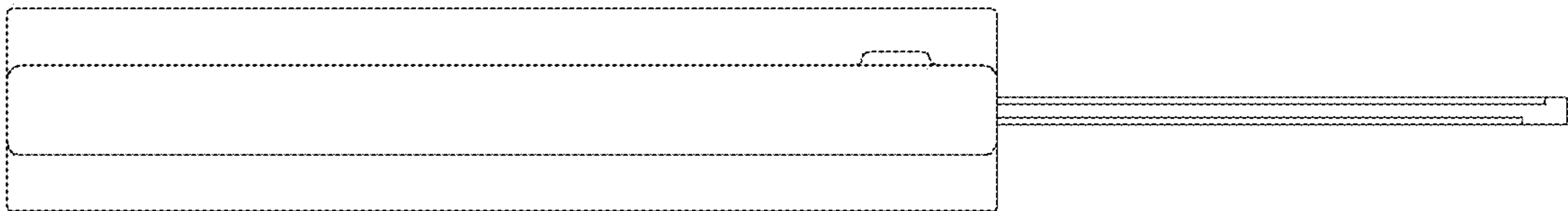


FIG. 6

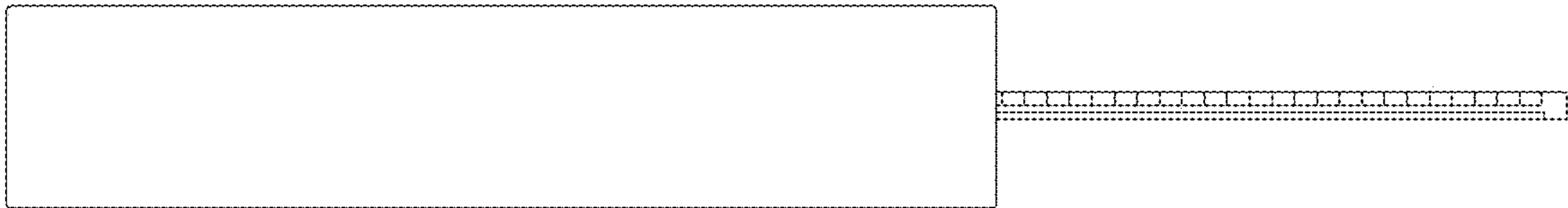


FIG. 7

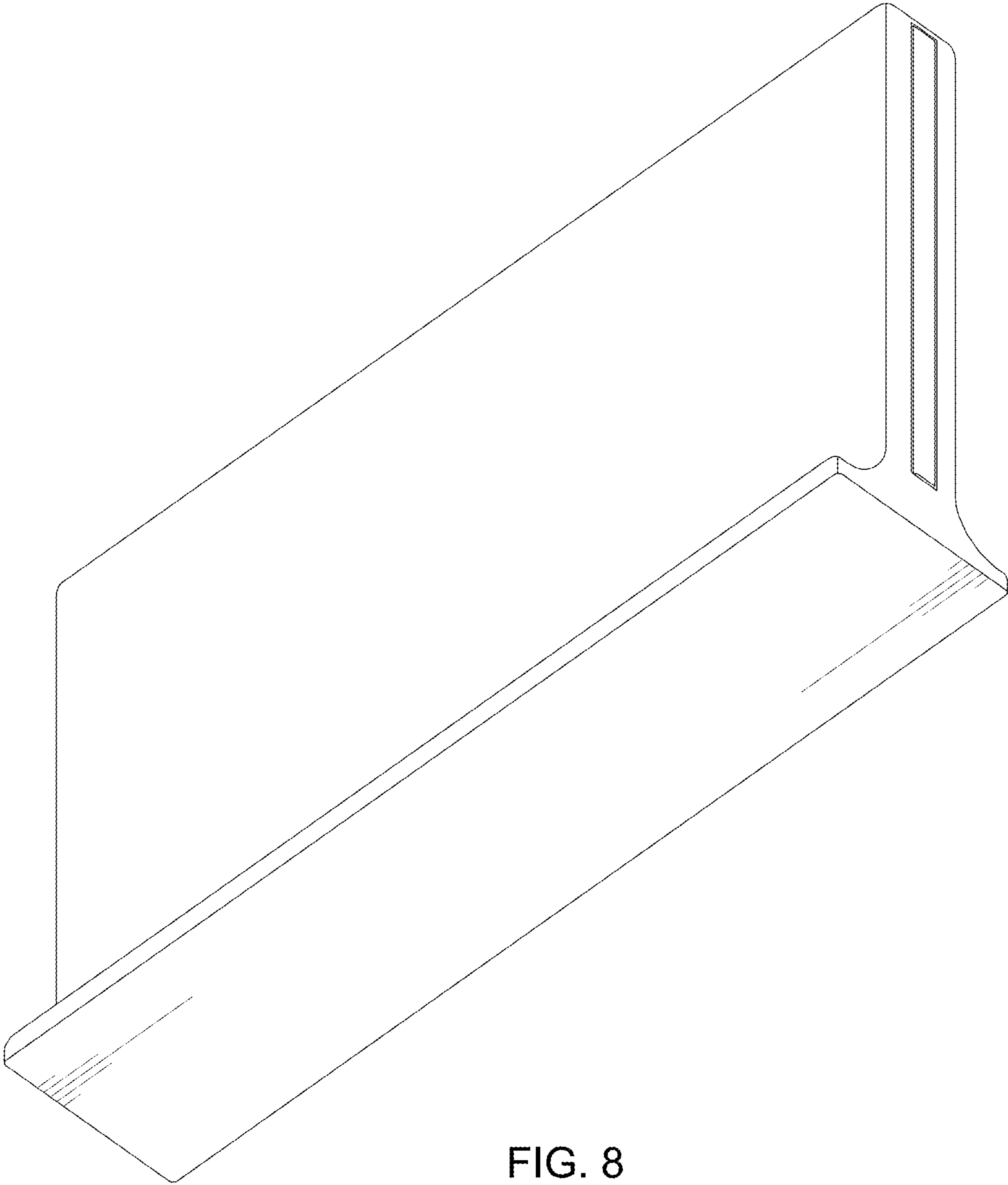


FIG. 8

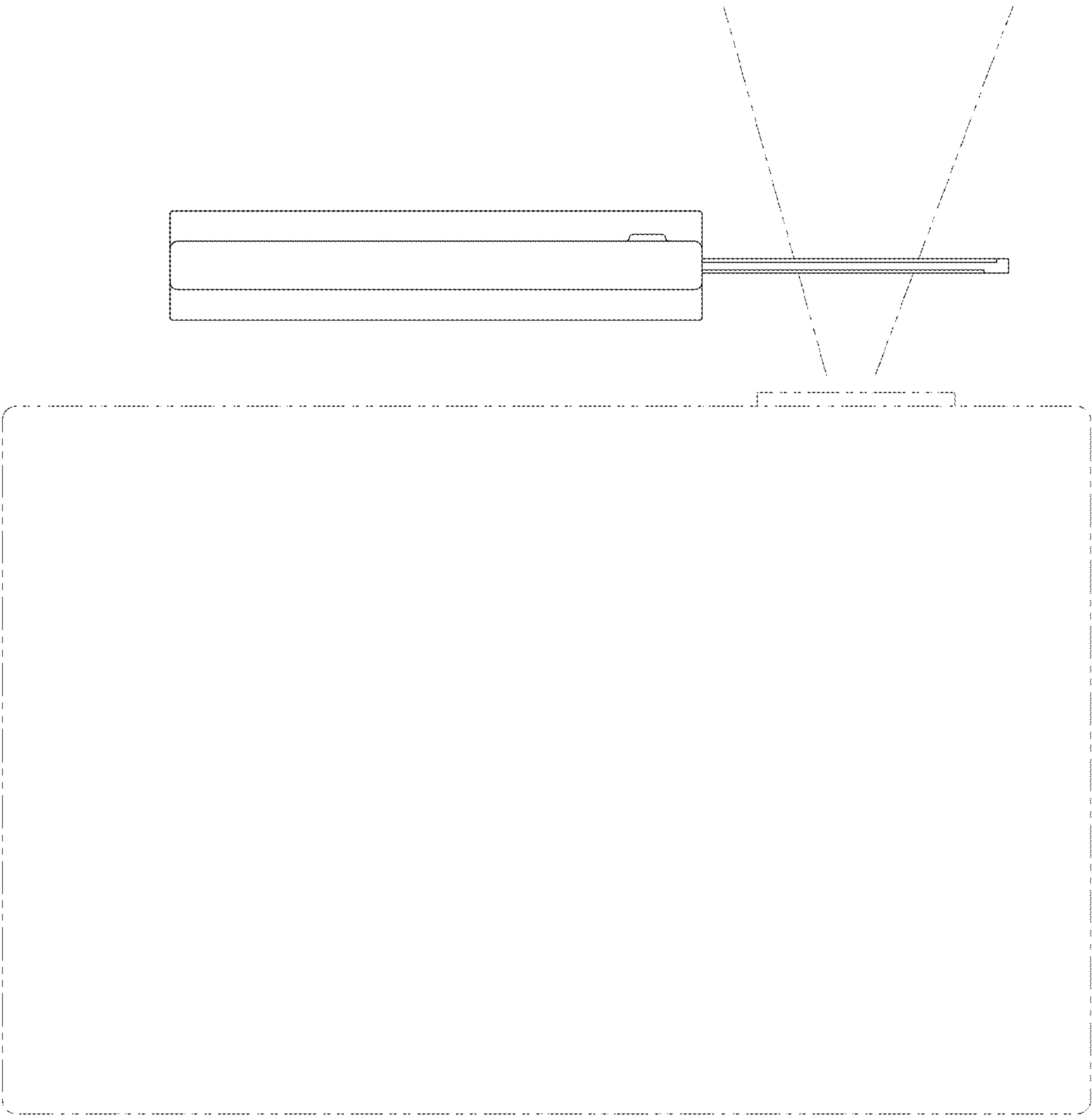


FIG. 9