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(12) United States Design Patent

Yi et al.

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(54) **3D SCANNING OPTICAL APPARATUS FOR MOBILE DEVICES**

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(51) **LOC (14) Cl.** **14-02**

(52) **U.S. Cl.**
USPC **D14/453**; D14/426

(58) **Field of Classification Search**
USPC D14/251–253, 447, 451, 452, 420, 426, D14/427, 432, 453; D12/415, 426.1; D3/218; D13/108; D16/242, 243
CPC . B60R 11/00; B60R 11/0241; B60R 11/0252; B60R 2011/0003; B60R 2011/0005; B60R 2011/0008; H04M 1/04; A45C 2011/002; A45C 2011/003; A45F 2200/0516; A45F 2200/0525; G06F 1/1654; G06F 1/1696
See application file for complete search history.

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(Continued)

Primary Examiner — Rebekah A Caruso

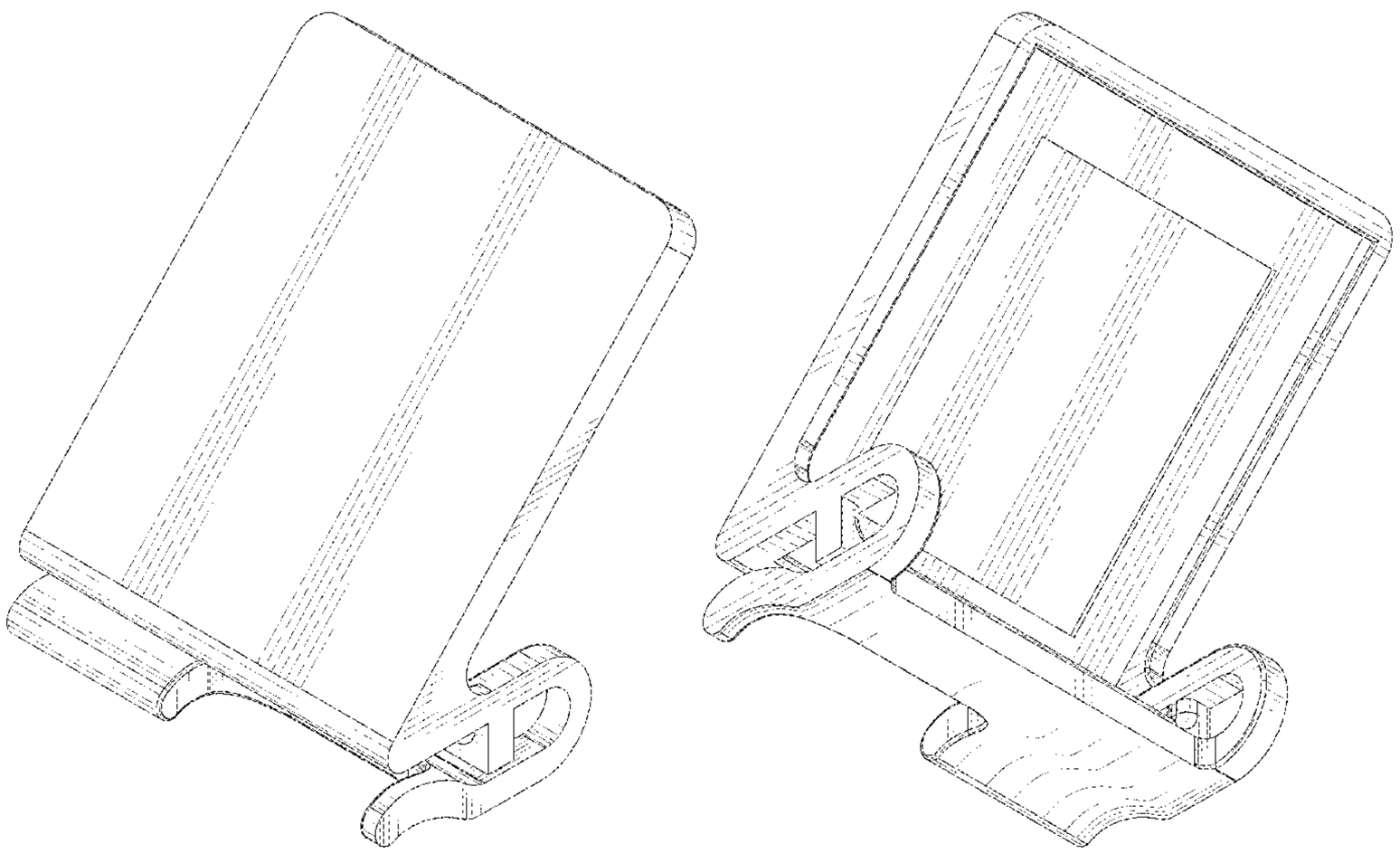
(57) **CLAIM**

The ornamental design for a 3D scanning optical apparatus for mobile devices, as shown and described.

DESCRIPTION

FIG. **1** is a front-top-left perspective view of a 3D scanning optical apparatus for mobile devices showing our new design;
FIG. **2** is a rear-bottom-left perspective view thereof;
FIG. **3** is a rear-bottom-right view thereof;
FIG. **4** is a front elevational view thereof;
FIG. **5** is a rear elevational view thereof;
FIG. **6** is a left elevational view thereof;
FIG. **7** is a right elevational view thereof;
FIG. **8** is a top plan view thereof;
FIG. **9** is a bottom plan view thereof;
FIG. **10** is a cross-section view taken along line **10-10** in FIG. **7**; and,
FIG. **11** is a cross-section view taken along line **11-11** in FIG. **7**.

1 Claim, 11 Drawing Sheets



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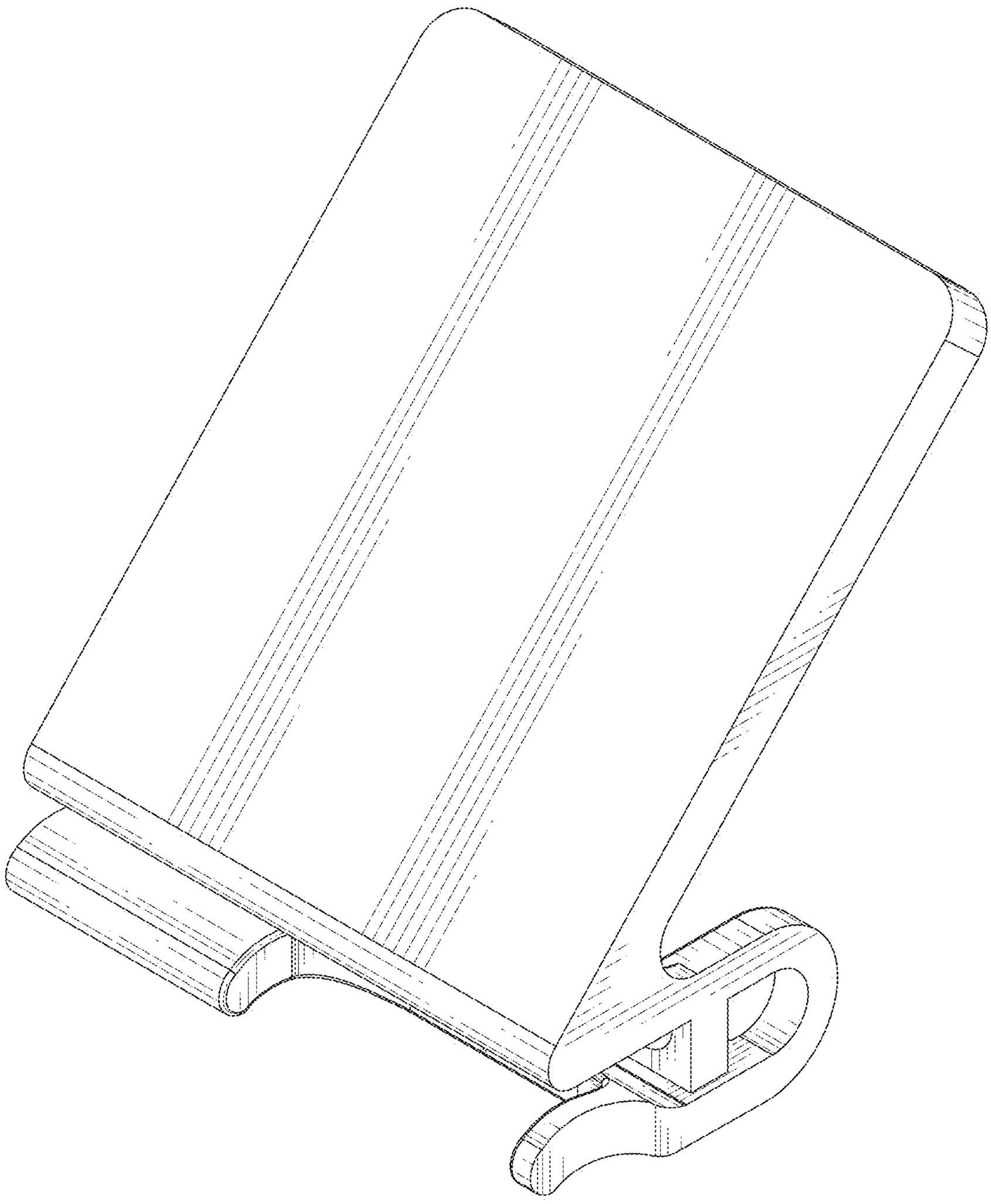

FIG. 1

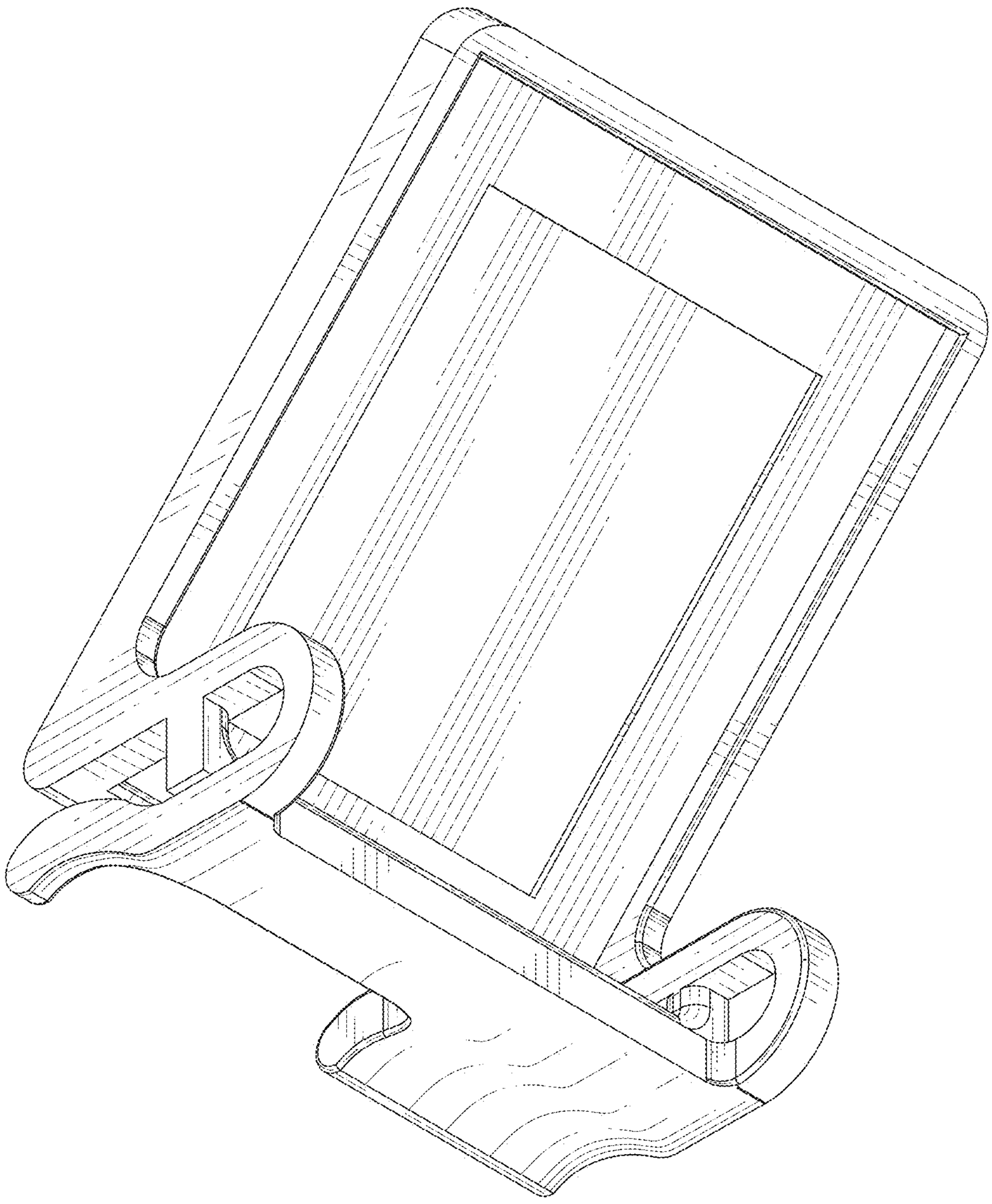

FIG. 2

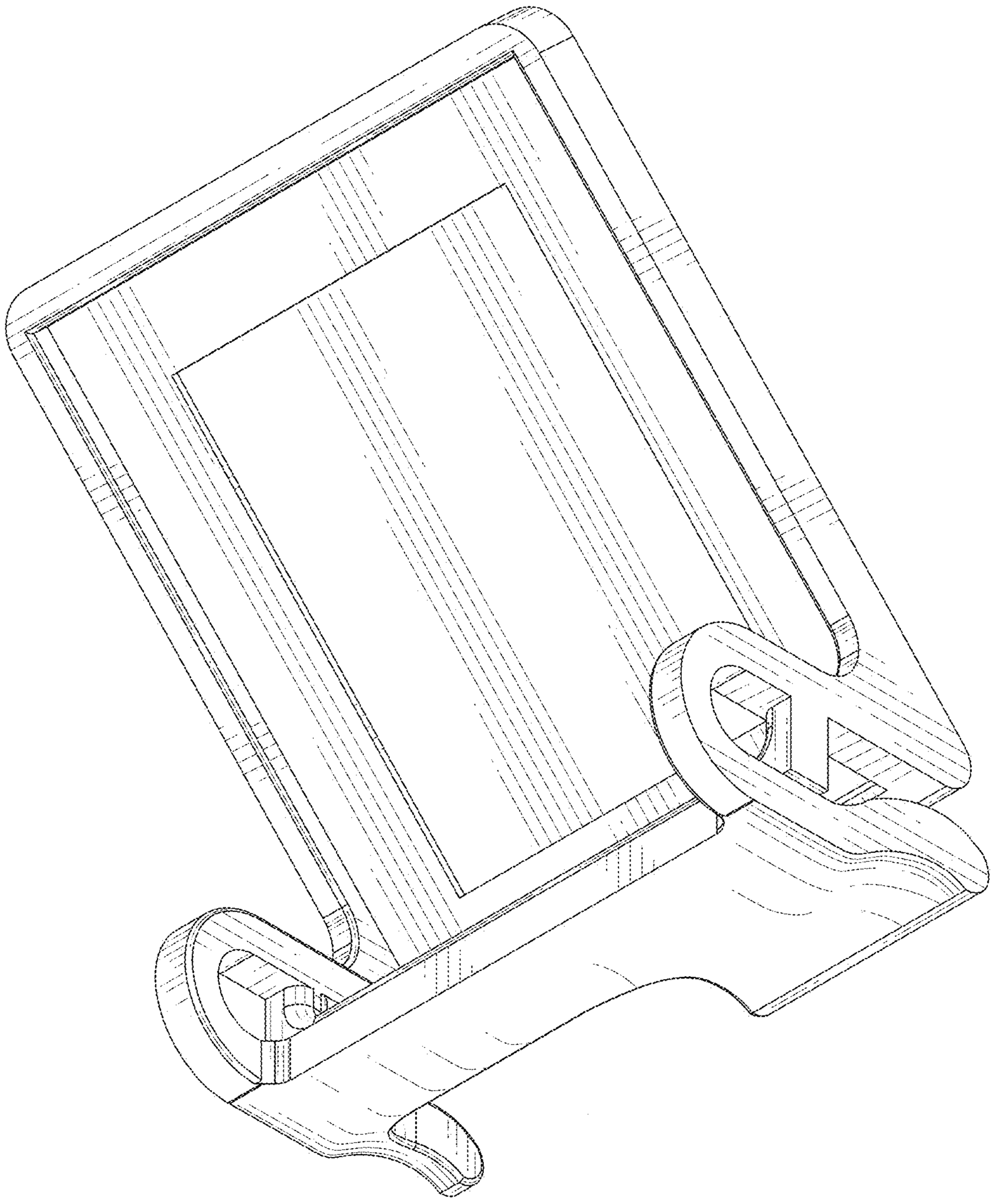

FIG. 3

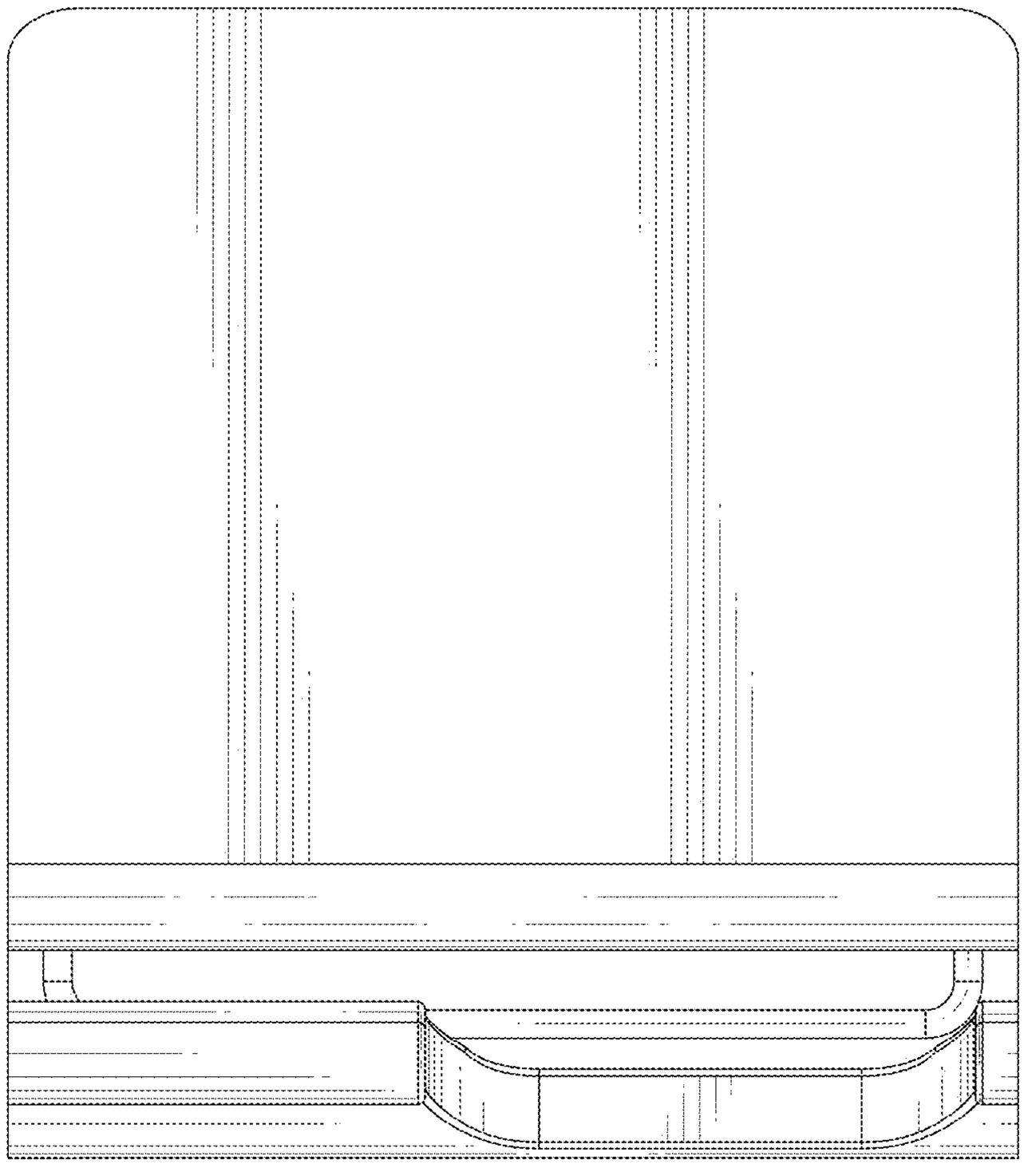

FIG. 4

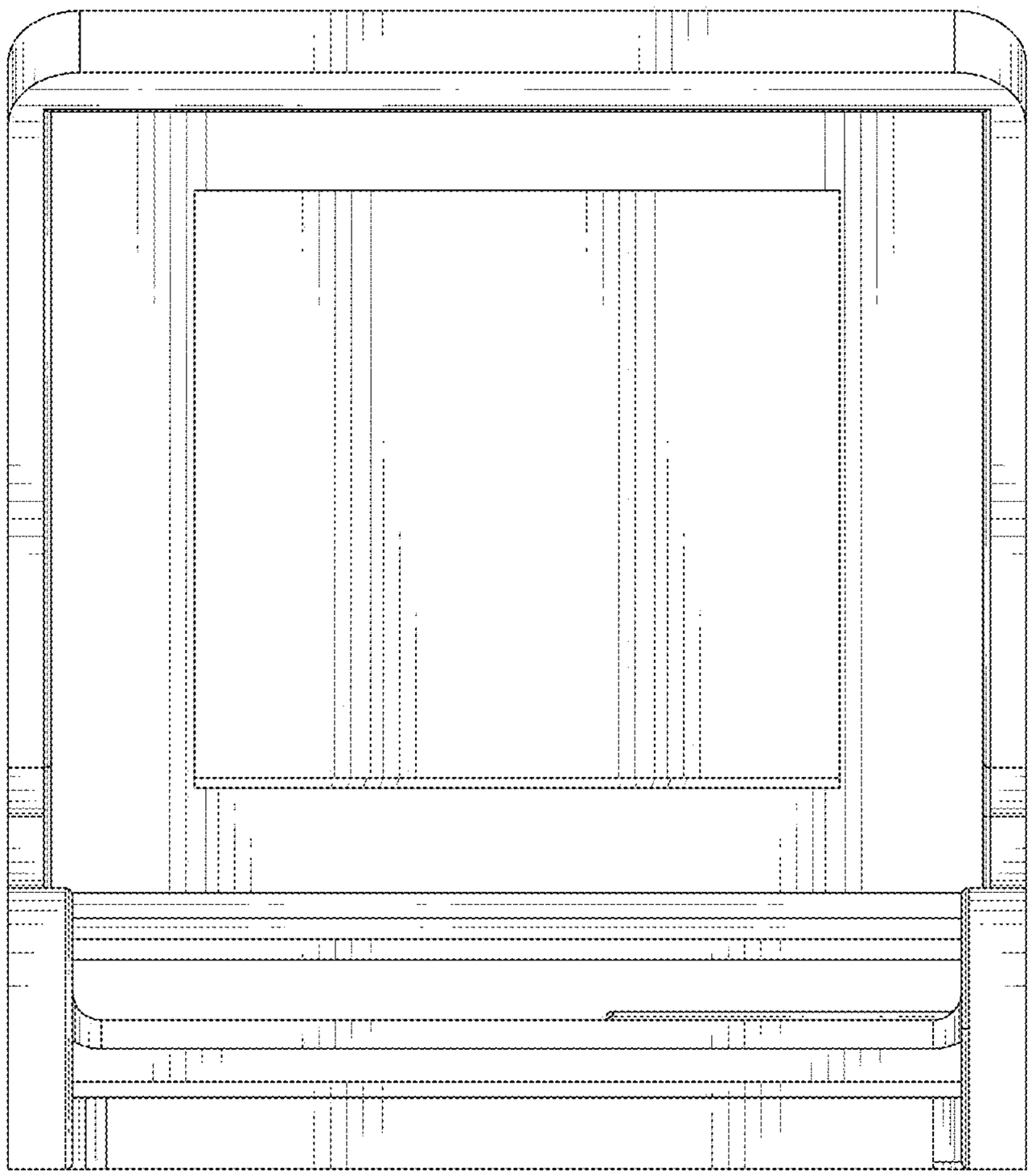

FIG. 5

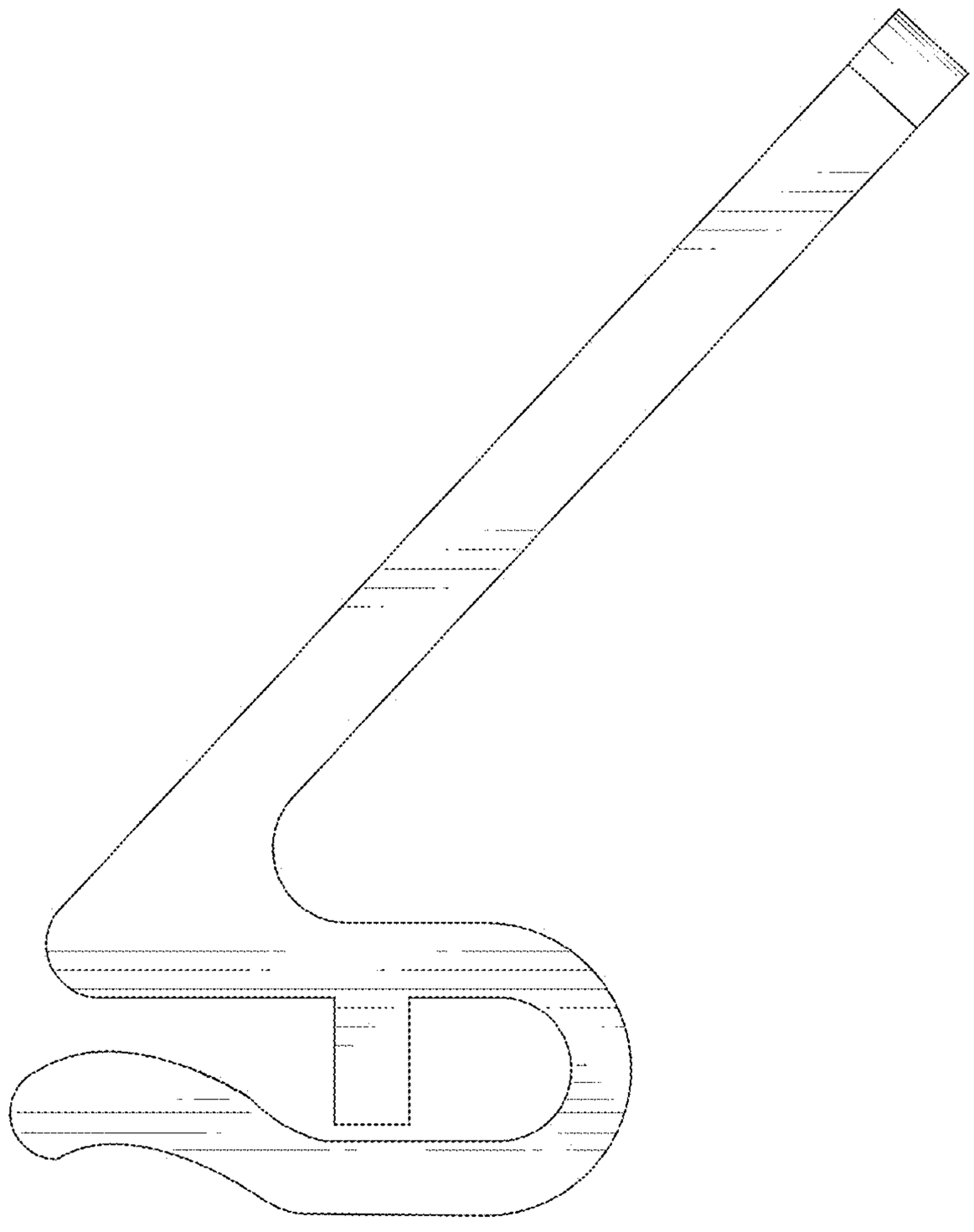

FIG. 6

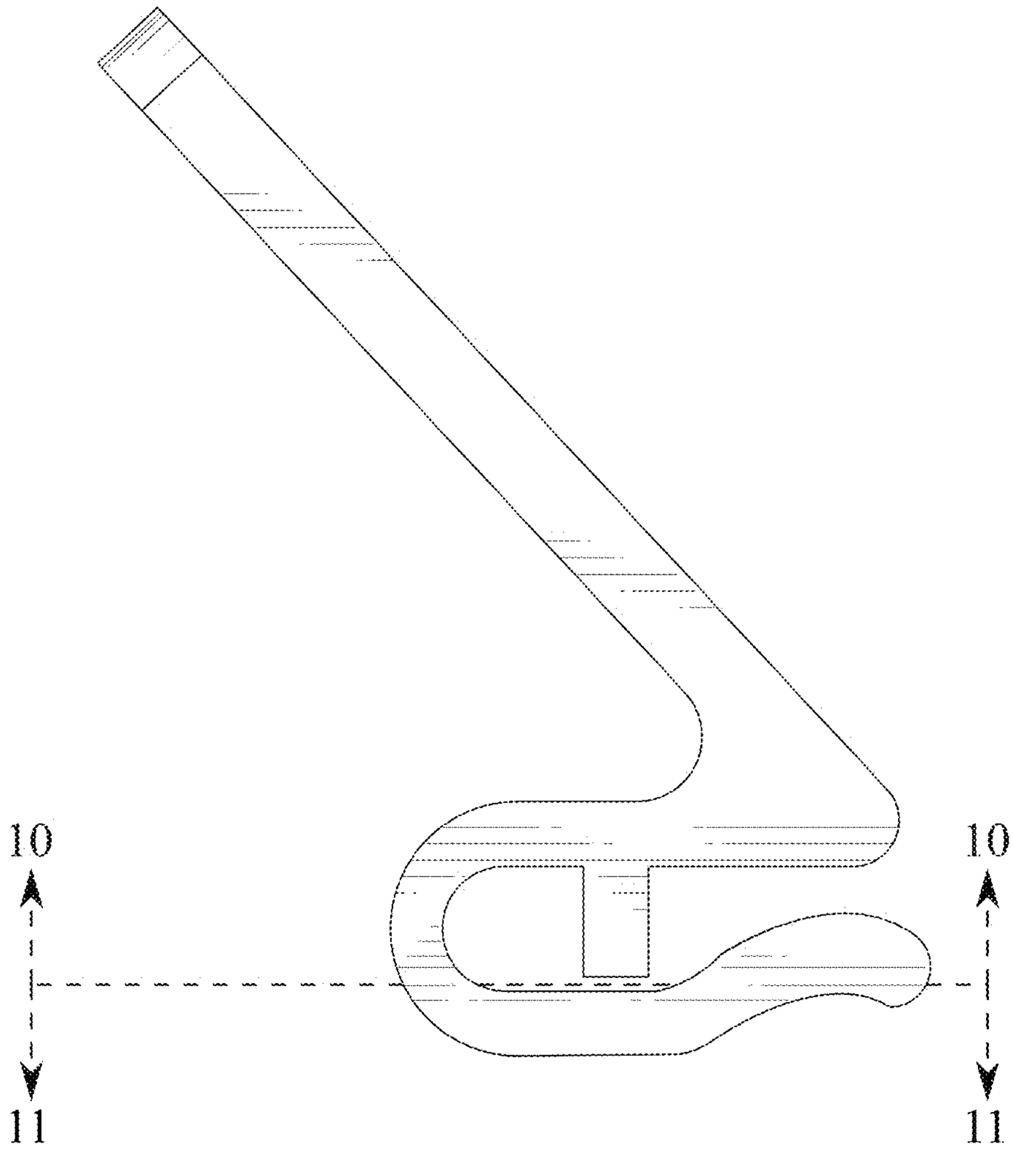

FIG. 7

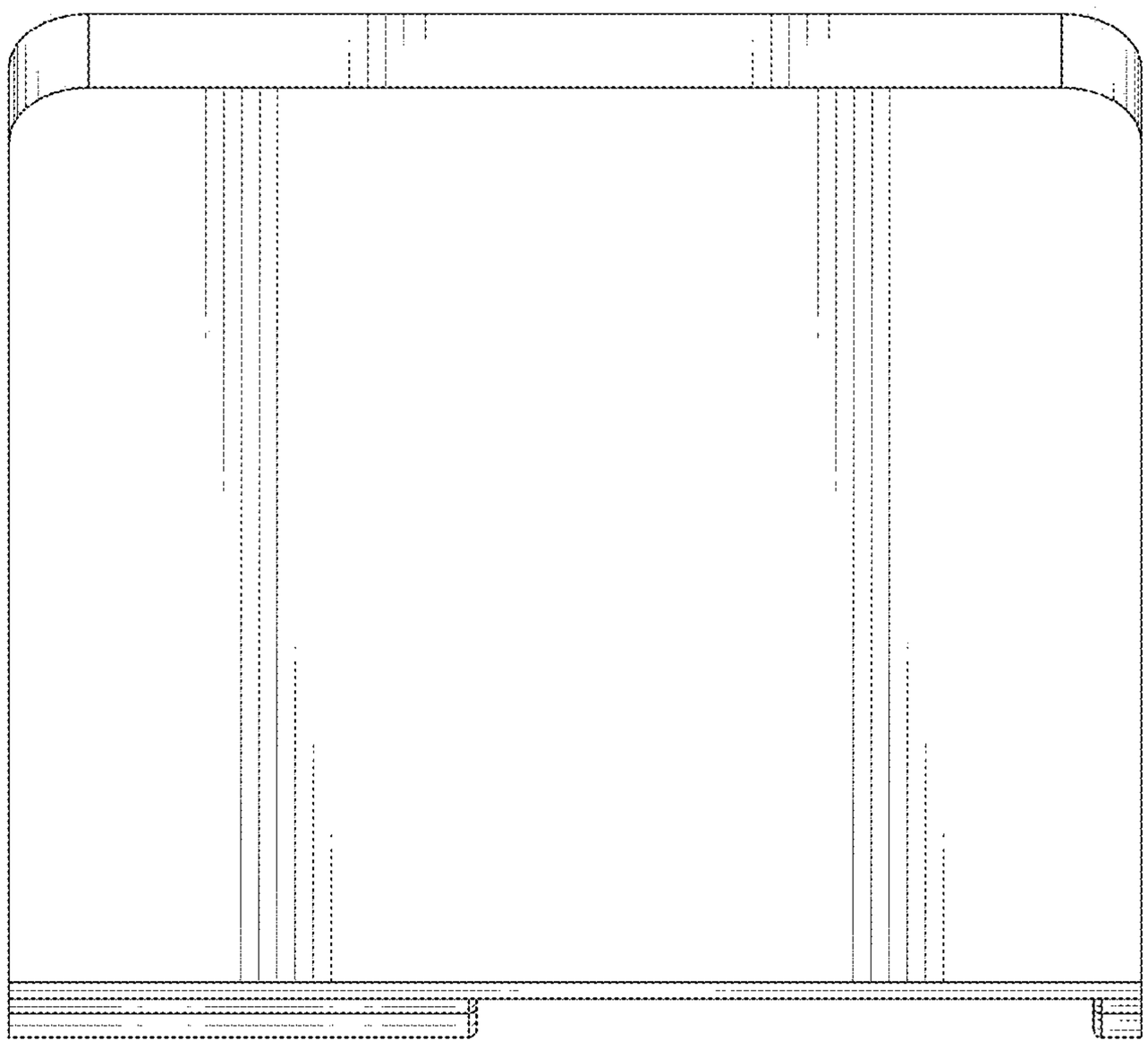

FIG. 8

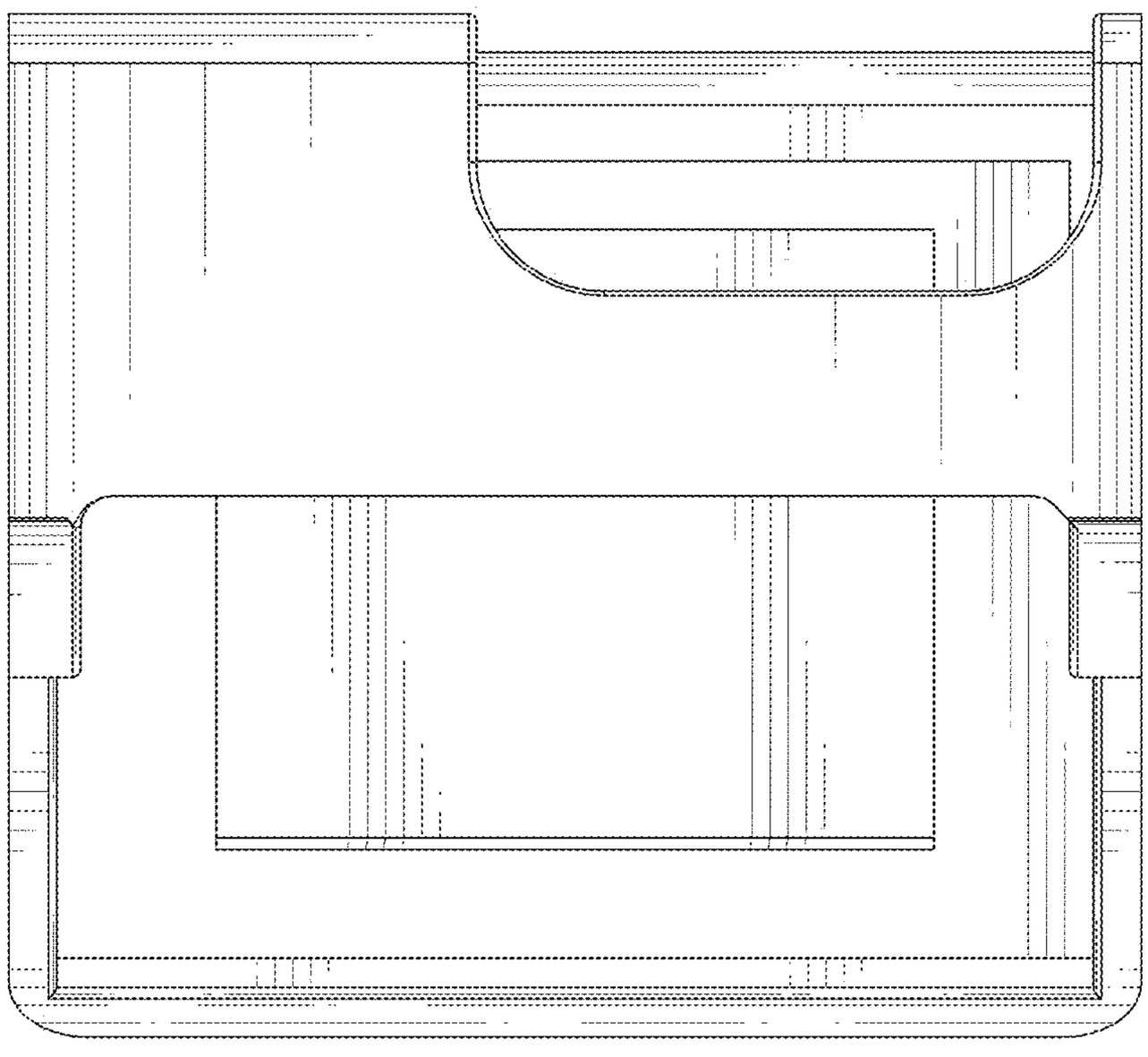

FIG. 9

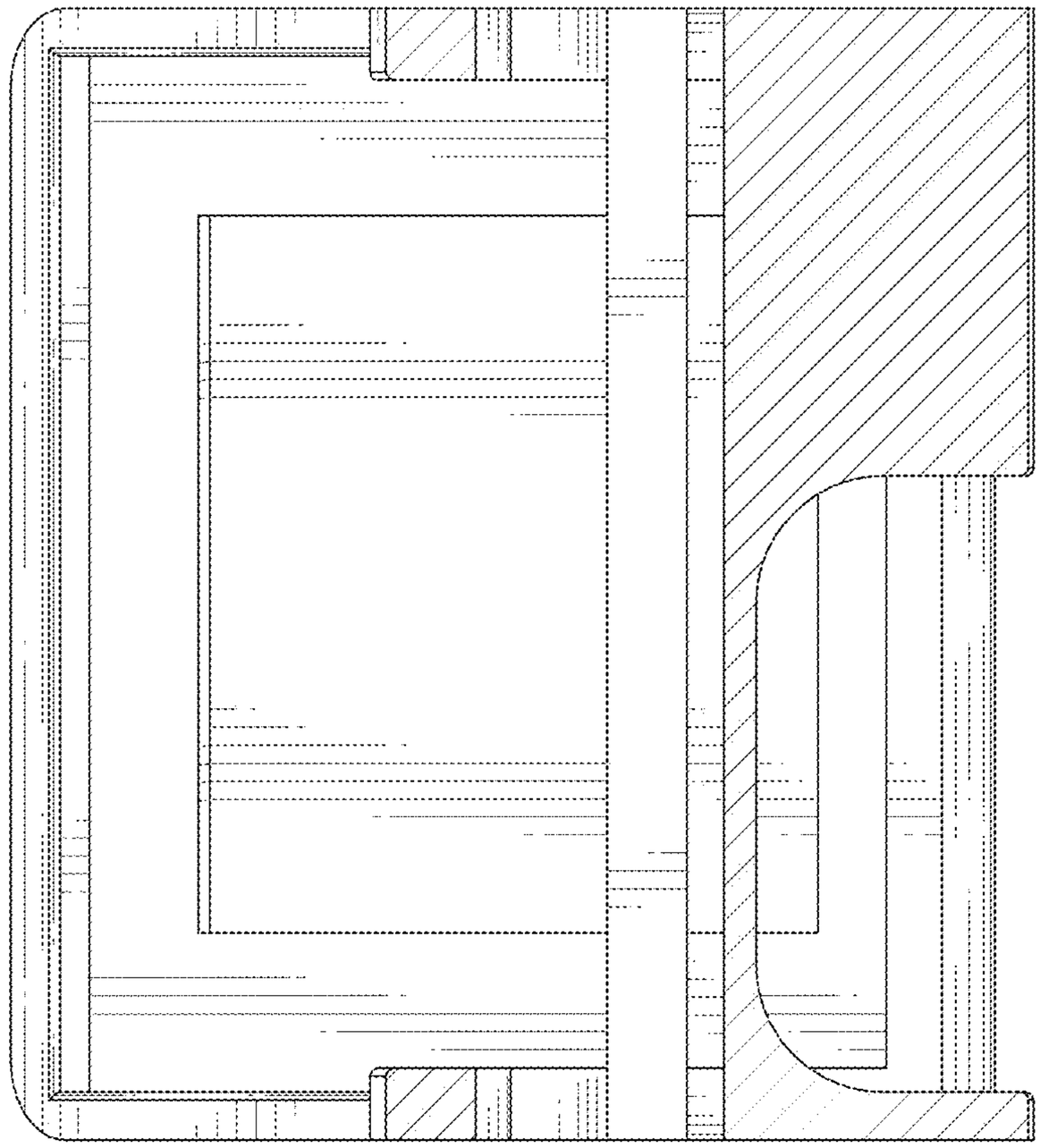

FIG. 10

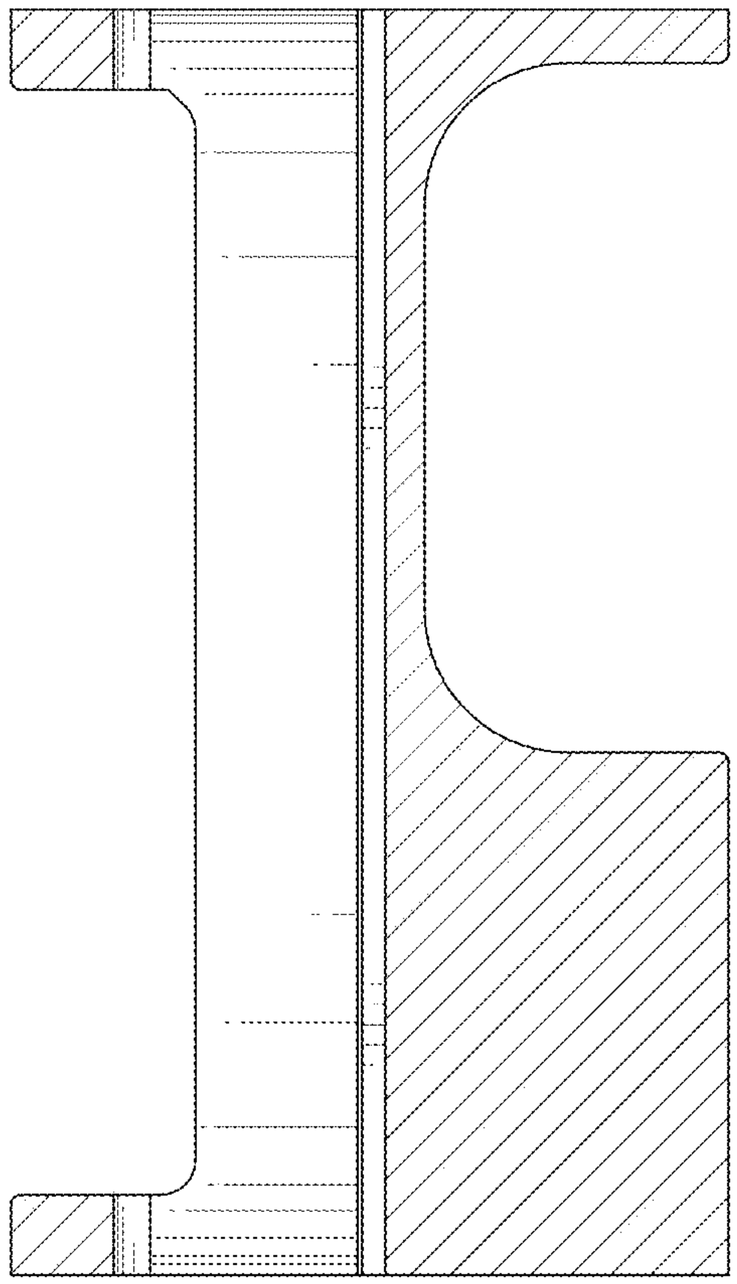

FIG. 11