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(12) **United States Design Patent** (10) **Patent No.: US D1,023,907 S**
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(54) **SUPPORT ASSEMBLY FOR A PHOTOVOLTAIC DEVICE**
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D848,362 S 5/2019 Conley et al.
D881,804 S * 4/2020 Aiken D13/102
10,658,969 B2 * 5/2020 Cropper H01L 31/044
10,812,013 B2 10/2020 Conley et al.
11,804,565 B2 * 10/2023 Morad H01L 31/044
11,811,361 B1 * 11/2023 Farhangi H02S 40/34
2008/0041442 A1 2/2008 Hanoka

(Continued)

FOREIGN PATENT DOCUMENTS

JP 1495627 S 4/2014

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

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(51) **LOC (14) Cl.** **13-02**

(52) **U.S. Cl.**
USPC **D13/102**

(58) **Field of Classification Search**
USPC D13/102, 101, 103, 107, 108, 199
CPC H01L 31/00; H01L 31/18; H01L 31/042;
H01L 31/045; H01L 31/048; H01L 31/052; H01L 31/054; H01L 31/0475;
H01L 31/0485; H01M 10/052; H01M 10/465; H02S 30/10; H02S 30/20; H02S 10/40; H02S 40/42; Y02E 10/50; Y02E 10/52; Y10S 136/291; Y10S 136/293; H02J 7/355; G06F 1/1628

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D616,813 S * 6/2010 Stancel D13/102
D680,946 S * 4/2013 Anwar D13/102
D684,112 S * 6/2013 Fallon D13/102
8,522,490 B1 * 9/2013 Stancel H02S 20/00
403/114

OTHER PUBLICATIONS

Bredder et al., "The Shape of Things to Come", Web Article, LinkedIn, Aug. 2017, <https://www.linkedin.com/pulse/shape-things-come-roger-bredder/>.

(Continued)

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(57) **CLAIM**

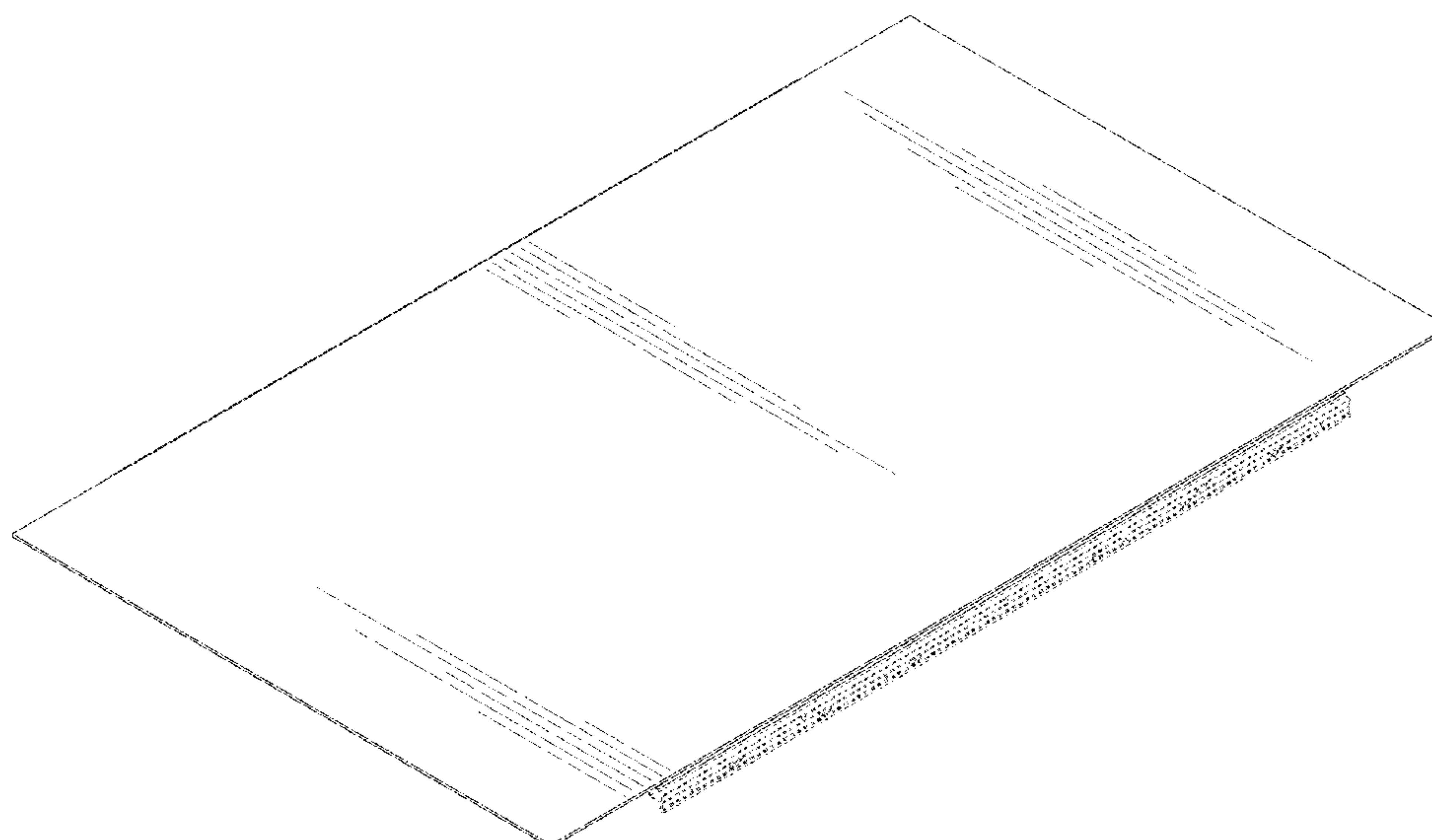
The ornamental design for a support assembly for a photovoltaic device, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of a support assembly for a photovoltaic device in accordance with the present design. FIG. 2 is a front elevational view thereof. FIG. 3 is a back elevational view thereof. FIG. 4 is a left elevational view thereof. FIG. 5 is a right elevational view thereof. FIG. 6 is a top plan view thereof; and, FIG. 7 is a bottom plan view thereof.

The broken lines shown represent the portions of the support assembly for a photovoltaic device that form no part of the claimed design.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2008/0149169 A1* 6/2008 Flaherty H01L 31/048
136/251
2010/0212740 A1* 8/2010 Barth H01L 31/02013
136/259
2012/0048350 A1 3/2012 Gonzalez
2012/0090176 A1* 4/2012 Stancel F24S 25/634
29/446

OTHER PUBLICATIONS

“First Solar Series 6: Next Generation Thin Film Solar Technology”, Datasheet, First Solar, Sep. 2017, <http://www.firstsolar.com/-/media/First-Solar/Technical-Documents/Series-6-Datasheets/Series-6-Datasheet.ashx?la=en>.

“Series 6: Gaining Ground—the Rise of Thin Film PV”, Webinar presentation, First Solar, Sep. 2017, <http://www.firstsolar.com/en/About-Us/Press-Center/2017/09/The-Shape-of-Things>.

“First Solar Series 6: Thin Film Modules Next Generation Solar Technology”, Brochure, First Solar, Sep. 2017, <http://www.firstsolar.com/-/media/First-Solar/Technical-Documents/Series-6-Datasheets/Series-6-Brochure.ashx?a=en>.

Strevel, “The Optimal PV Module Size”, Series 6 Poster, Solar Power International conference, U.S., Sep. 2017, <http://www.firstsolar.com/-/media/First-Solar/Technical-Documents/Series-6-Datasheets/Series-6-Optimal-Module-Size-Factsheet.ashx>.

* cited by examiner

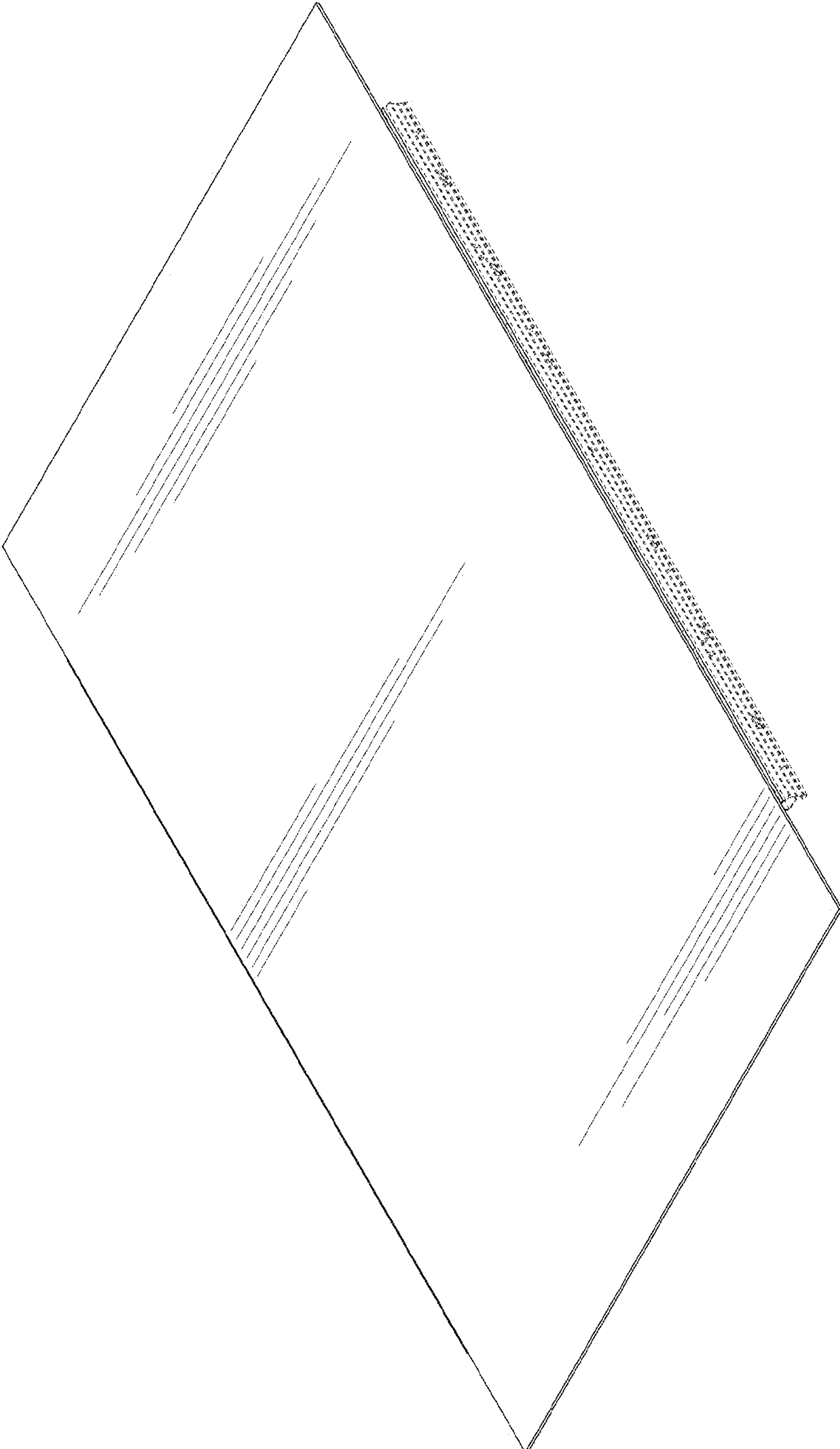


FIG. 1

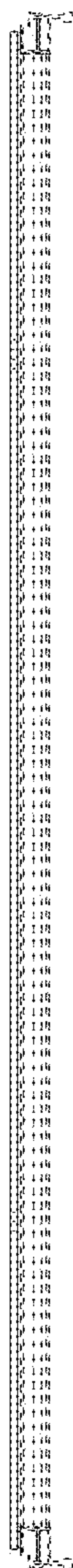


FIG. 2

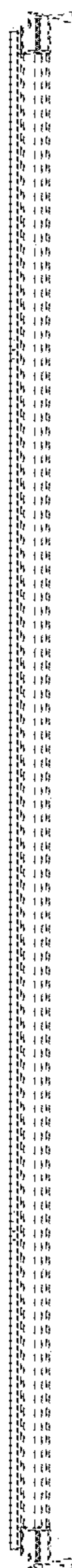


FIG. 3

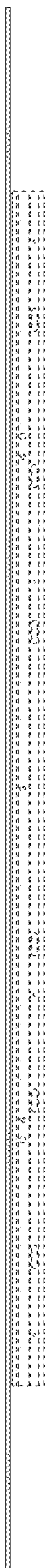


FIG. 4



FIG. 5

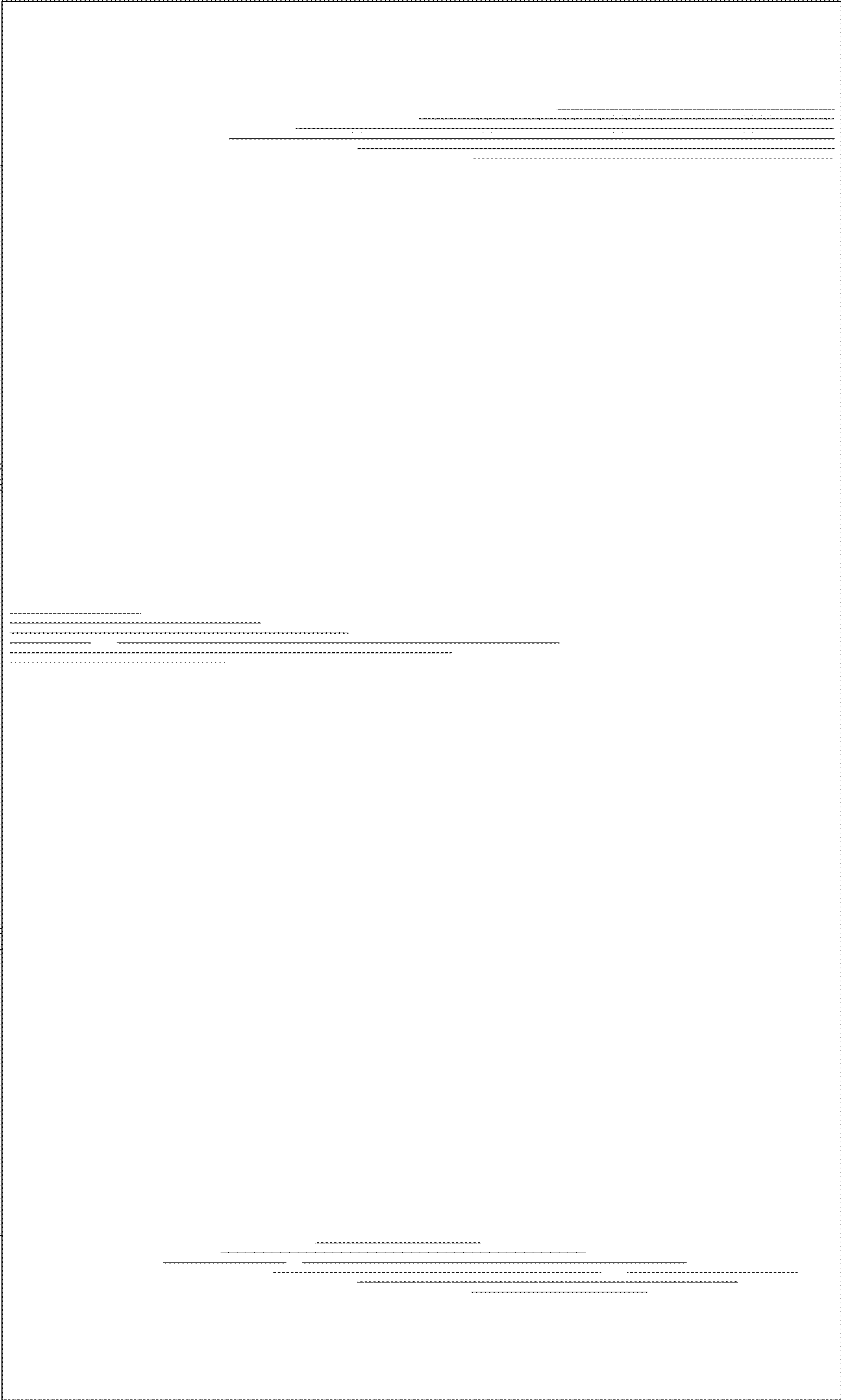


FIG. 6

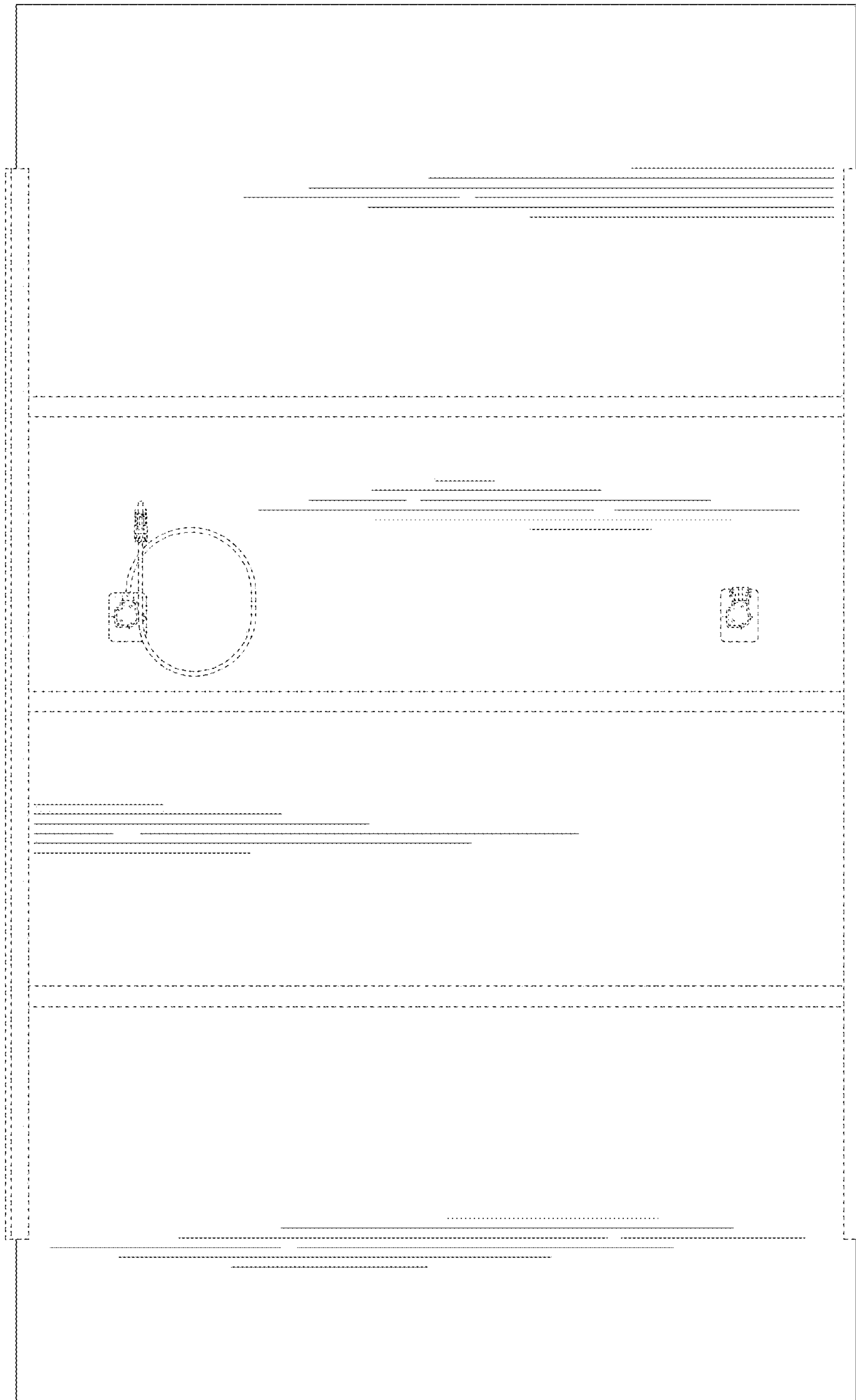


FIG. 7