



US00D804059S

(12) **United States Design Patent** (10) **Patent No.:** **US D804,059 S**  
**Labesque et al.** (45) **Date of Patent:** **\*\* Nov. 28, 2017**

(54) **PHOTOVOLTAIC ROOF TILE**

- (71) Applicant: **SolarCity Corporation**, San Mateo, CA (US)
- (72) Inventors: **Remy Labesque**, San Francisco, CA (US); **Daniel Flanigan**, San Francisco, CA (US); **Jack West**, San Francisco, CA (US); **Brian Atchley**, Petaluma, CA (US); **Brian West**, San Francisco, CA (US); **Charles Almy**, San Francisco, CA (US)
- (73) Assignee: **SolarCity Corporation**, San Mateo, CA (US)

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

(21) Appl. No.: **29/582,643**

(22) Filed: **Oct. 28, 2016**

(51) **LOC (10) Cl.** ..... **25-01**

(52) **U.S. Cl.**  
USPC ..... **D25/139; D13/102**

(58) **Field of Classification Search**  
USPC ..... D6/300, 310, 314; D8/354; D13/101, D13/102, 103, 118, 119, 184, 199; D21/494; D25/57, 139, 180, 141, 143, D25/144  
CPC ..... H01L 31/00; H02S 10/00; H02S 20/00; Y02B 10/00; Y02E 10/00; Y02E 10/40; Y02E 10/41; Y02E 10/42; Y02E 10/43; Y02E 10/44; Y02E 10/45; Y02E 10/46; Y02E 10/47; Y02E 10/50; Y02E 10/51; Y02E 10/52

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- D354,520 S \* 1/1995 Pong ..... D19/88
- 5,986,203 A 11/1999 Hanoka et al.

(Continued)

**OTHER PUBLICATIONS**

Solar Power Photovoltaic Tile, posted at Designweneed.com, posted on Jan. 16, 2014 ,[online], [site visited Jul. 25, 2017]. Available from Internet, <<http://www.designweneed.com/solar-power-photovoltaic-tile/>>.\*

(Continued)

*Primary Examiner* — Thomas Johannes  
*Assistant Examiner* — Catherine Ho  
(74) *Attorney, Agent, or Firm* — Sterne, Kessler, Goldstein & Fox P.L.L.C.

(57) **CLAIM**

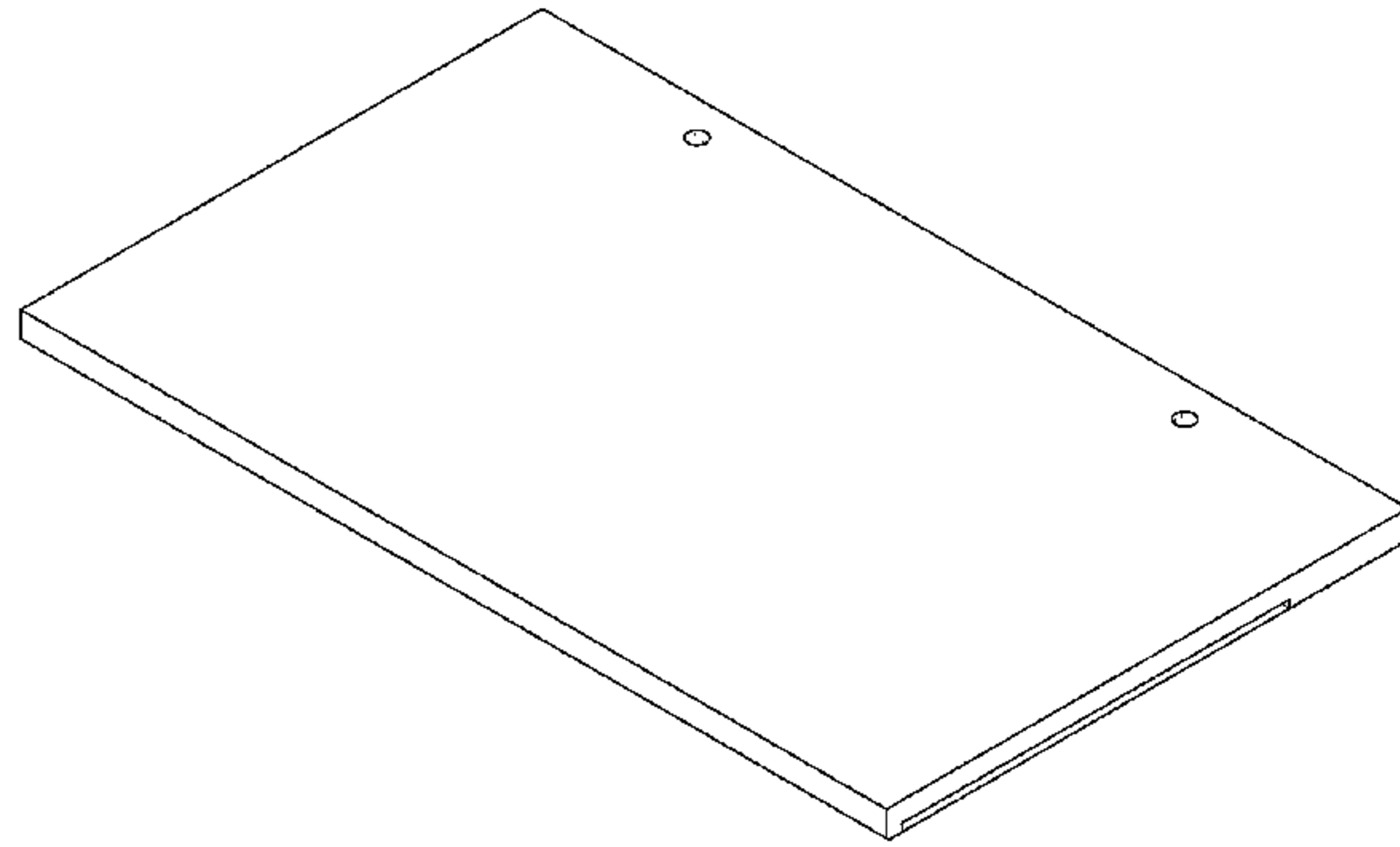
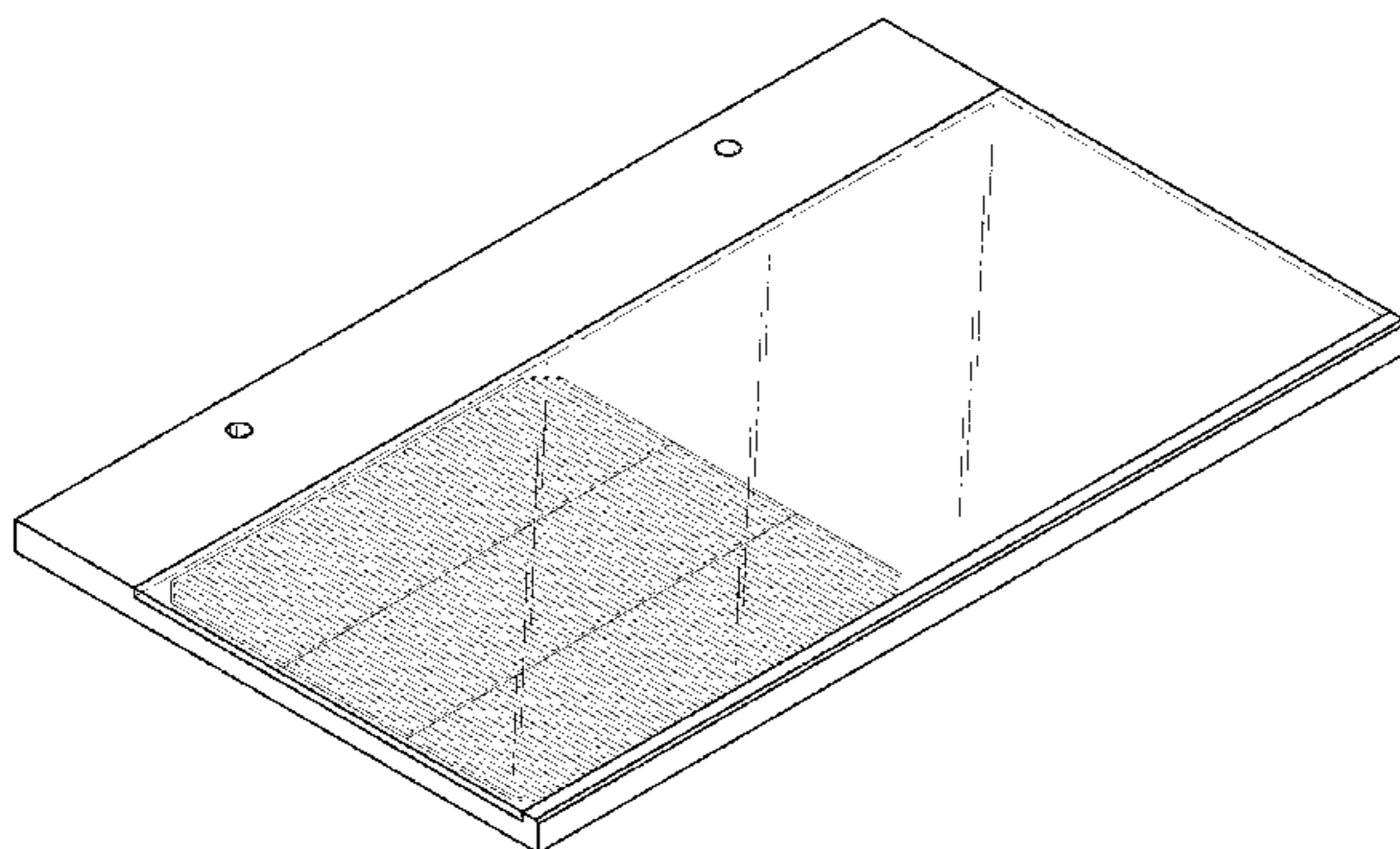
The ornamental design for a photovoltaic roof tile, as shown and described.

**DESCRIPTION**

FIG. 1 is a bottom front perspective view of a photovoltaic roof tile showing the claimed design;  
 FIG. 2 is a bottom rear perspective view thereof;  
 FIG. 3 is a front view thereof;  
 FIG. 4 is a rear view thereof;  
 FIG. 5 is a left side view thereof;  
 FIG. 6 is a right side view thereof;  
 FIG. 7 is a bottom view thereof;  
 FIG. 8 is a top view thereof;  
 FIG. 9 is a bottom front perspective view of another photovoltaic roof tile showing the claimed design;  
 FIG. 10 is a bottom rear perspective view thereof;  
 FIG. 11 is a front view thereof;  
 FIG. 12 is a rear view thereof;  
 FIG. 13 is a left side view thereof;  
 FIG. 14 is a right side view thereof;  
 FIG. 15 is a bottom view thereof; and,  
 FIG. 16 is a top view thereof.

The oblique shade lines in the figures show transparency or translucency.

**1 Claim, 12 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

5,990,414 A \* 11/1999 Posnansky ..... H01L 31/048  
 136/244  
 D449,897 S \* 10/2001 Croft ..... D25/139  
 D452,081 S \* 12/2001 Rowan ..... D6/300  
 6,856,496 B1 2/2005 Mucci et al.  
 D545,574 S \* 7/2007 Mischel, Jr. .... D6/300  
 D572,843 S \* 7/2008 Berry ..... D25/139  
 D581,681 S \* 12/2008 Goolrick ..... D6/314  
 7,713,089 B2 5/2010 Faust et al.  
 D620,718 S \* 8/2010 Mischel, Jr. .... D6/300  
 D643,467 S \* 8/2011 Yi ..... D20/15  
 8,476,523 B2 7/2013 Bennett  
 9,166,523 B2 10/2015 Kiik et al.  
 9,169,646 B2 10/2015 Rodrigues et al.  
 D787,597 S \* 5/2017 Kang ..... D20/27  
 2015/0180408 A1\* 6/2015 Pisklak ..... G01R 31/026  
 136/244  
 2015/0194551 A1\* 7/2015 Crist ..... H01L 31/0504  
 136/244  
 2017/0192462 A1\* 7/2017 Kim ..... B32B 7/12

OTHER PUBLICATIONS

Are Solar Shingles Right for Your Home, posted at Planetmattersandmore.com, posted on Sep. 9, 2015, [online], [site visited Jul. 25, 2017]. Available from Internet, <<http://planetmattersandmore.com/tag/cost-of-solar-shingles/>>.\*  
 BIPV: Building-integrated Photovoltaics, posted at Solarchoice.net.au, posted on Apr. 1, 2011, [online], [site visited Jul. 25, 2017]. Available from Internet, <<https://www.solarchoice.net.au/blog/bipv-building-integrated-photovoltaics-the-future-of-pv/>>.\*  
 Tractile, posted at Tractile.com.au, posted on Feb. 27, 2015, [online], [site visited Jul. 25, 2017]. Available from Internet, <<https://web.archive.org/web/20150227131819/http://tractile.com.au/TractileProducts/TractileSolarBIPV-TRoofTiles.aspx>>.\*  
 ArchiExpo, "PV roof tiles," (<http://www.archiexpo.com/architecture-design-manufacturer/pv-roof-tile-1665.html>). retrieved Feb. 9, 2017, 9 pages.  
 Designboom, "SolTech energy: crystalline solar panel roofing system," (<http://www.designboom.com/technology/soltech-energy-crystalline-solar-panel-roofing-system>), retrieved Feb. 9, 2017, 6 pages.

\* cited by examiner

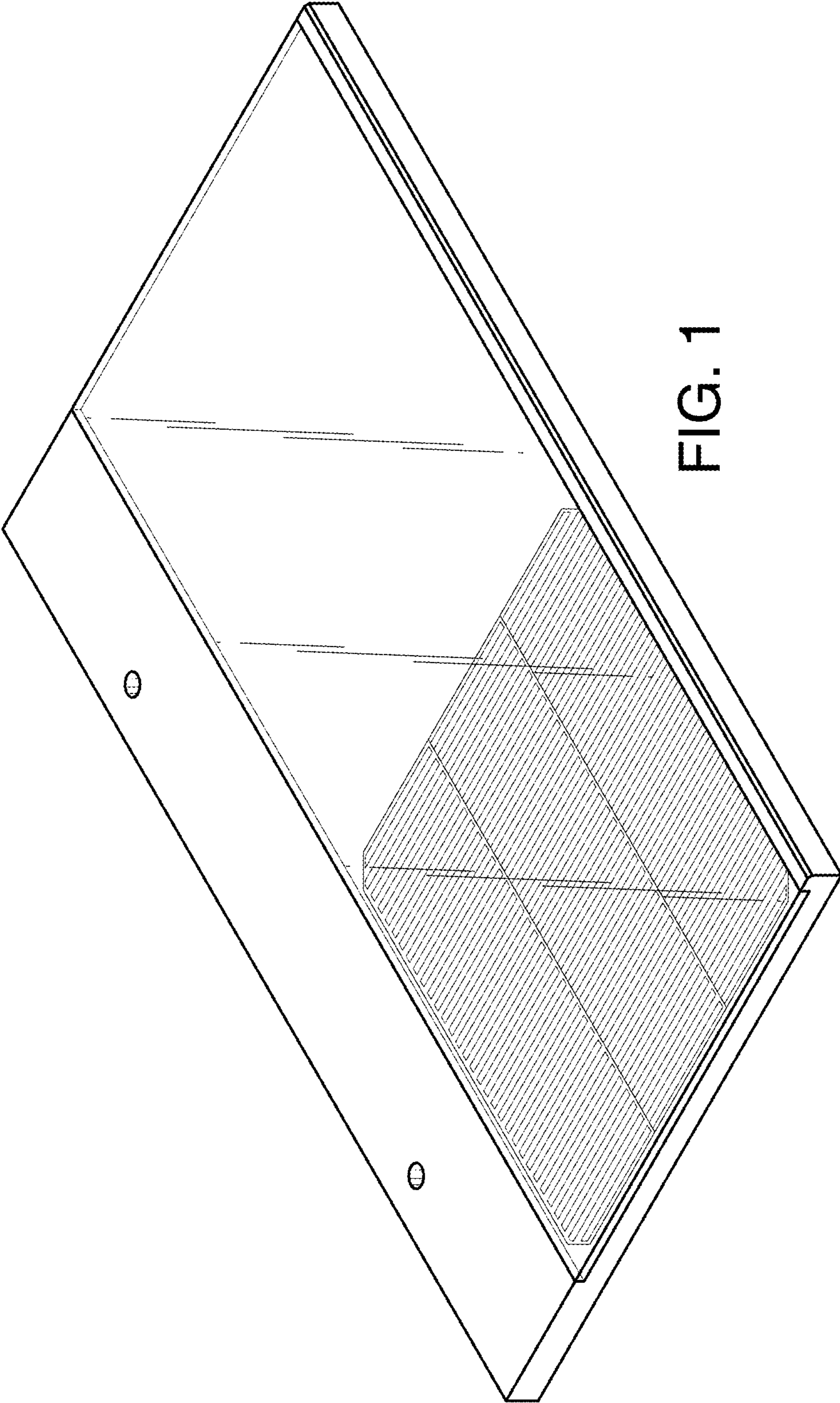


FIG. 1



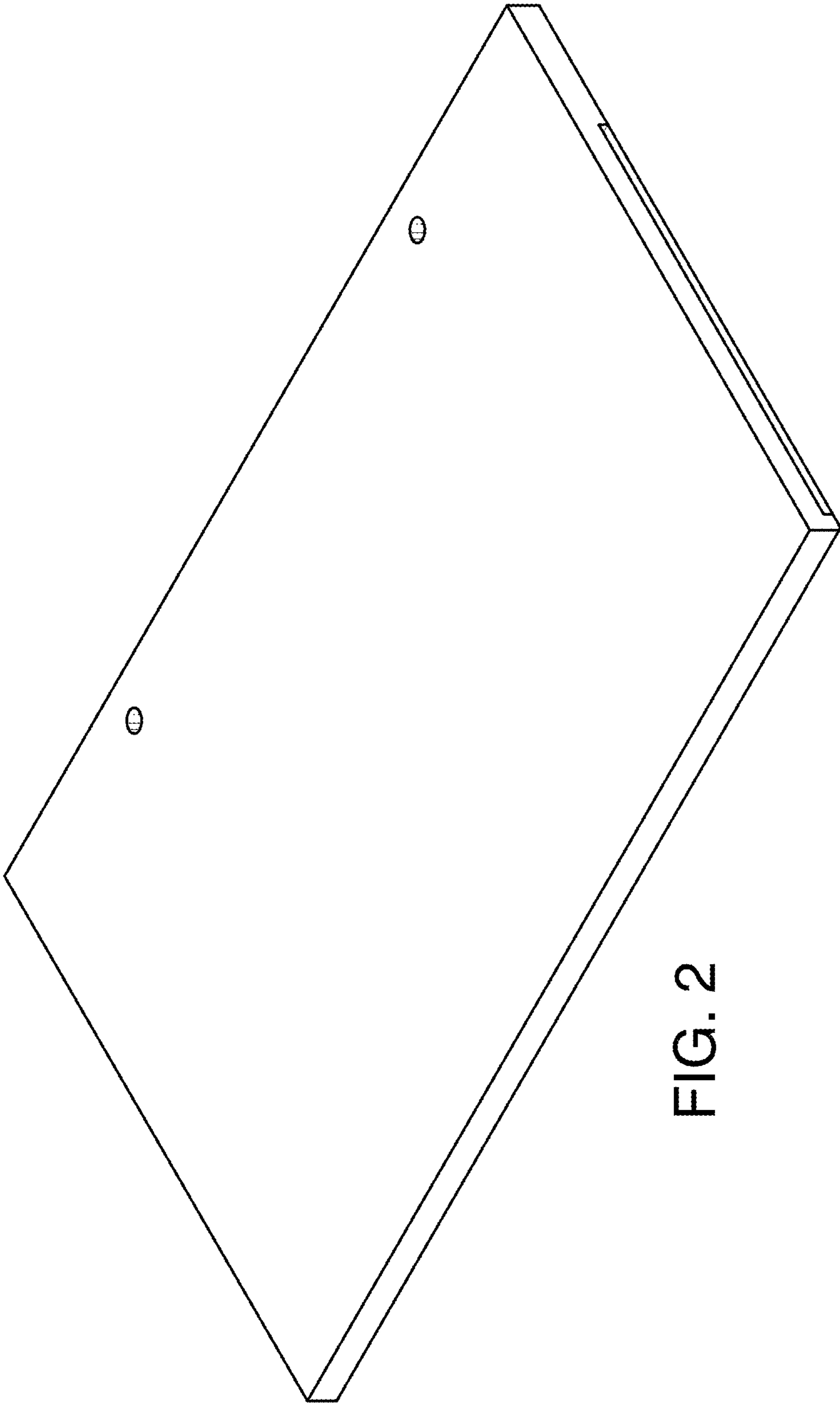


FIG. 2

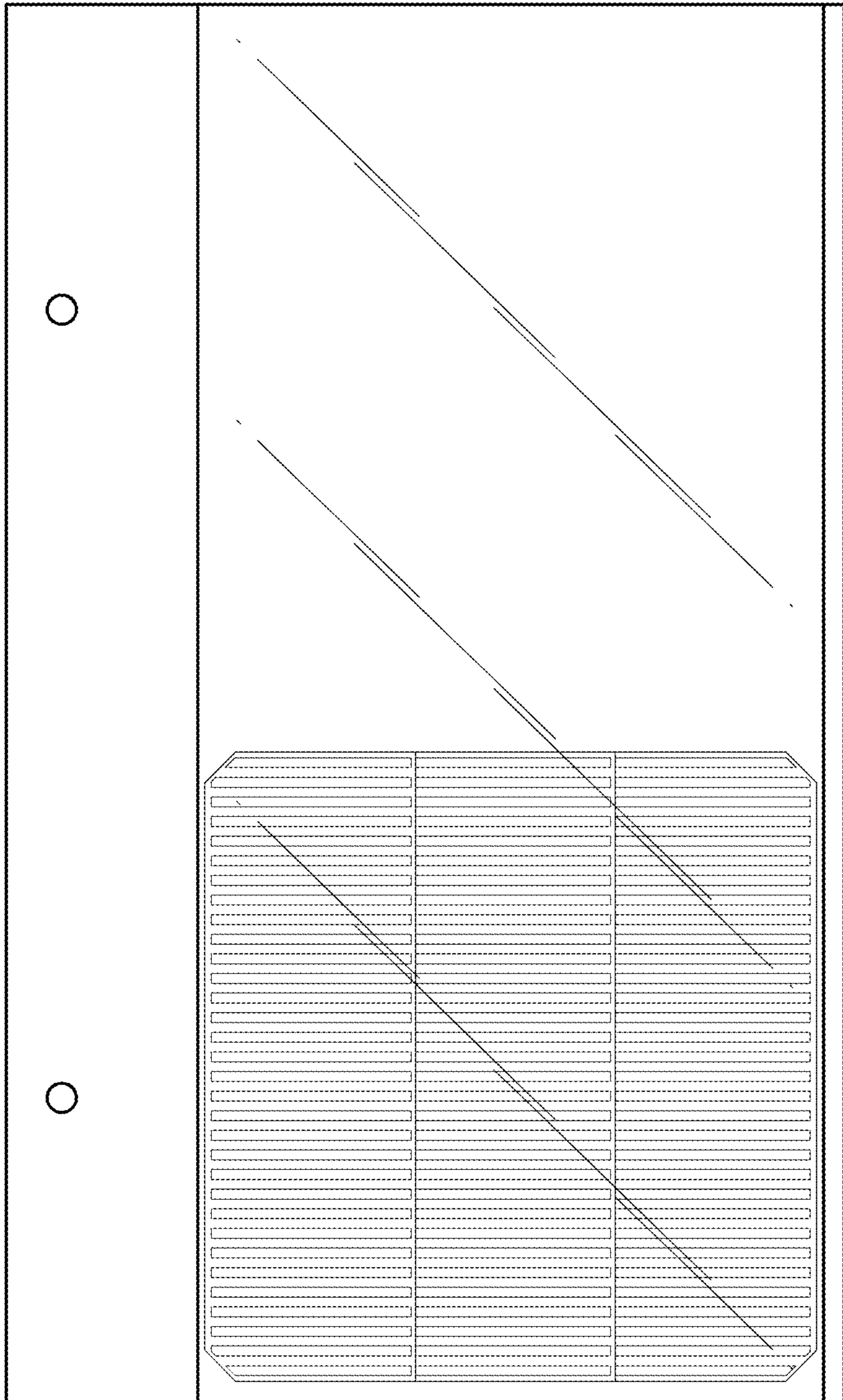


FIG. 3

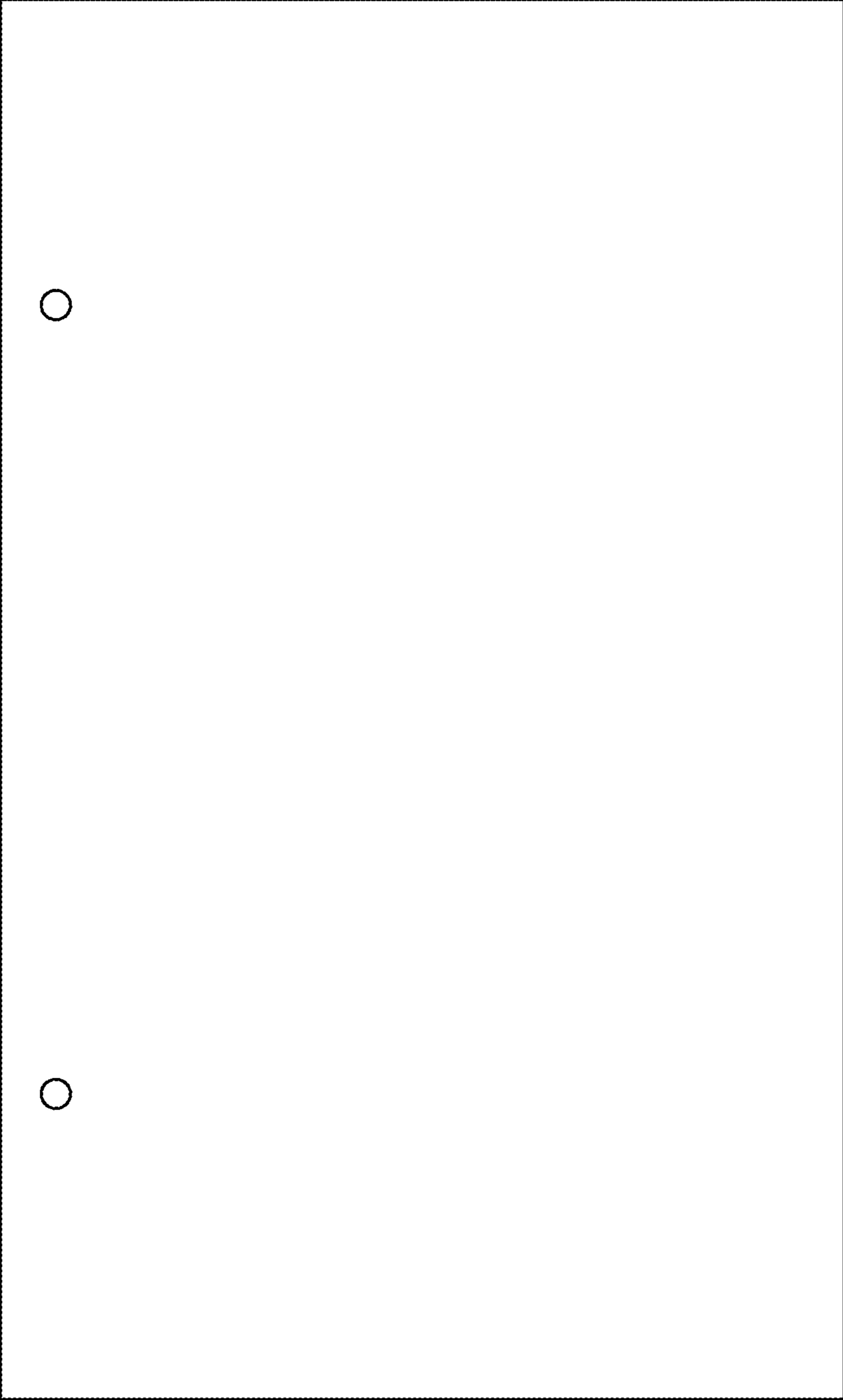


FIG. 4



FIG. 5



FIG. 6



FIG. 7



FIG. 8



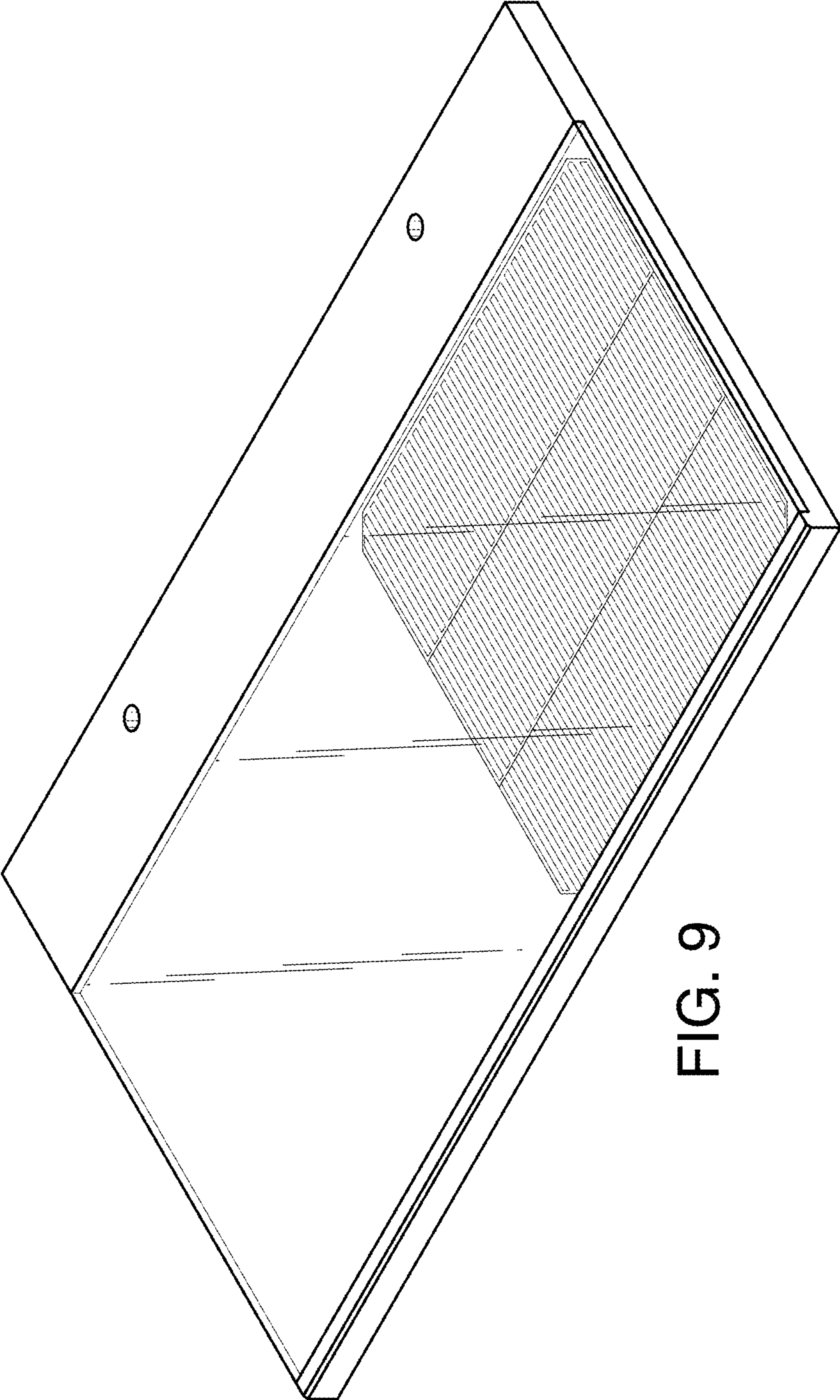


FIG. 9

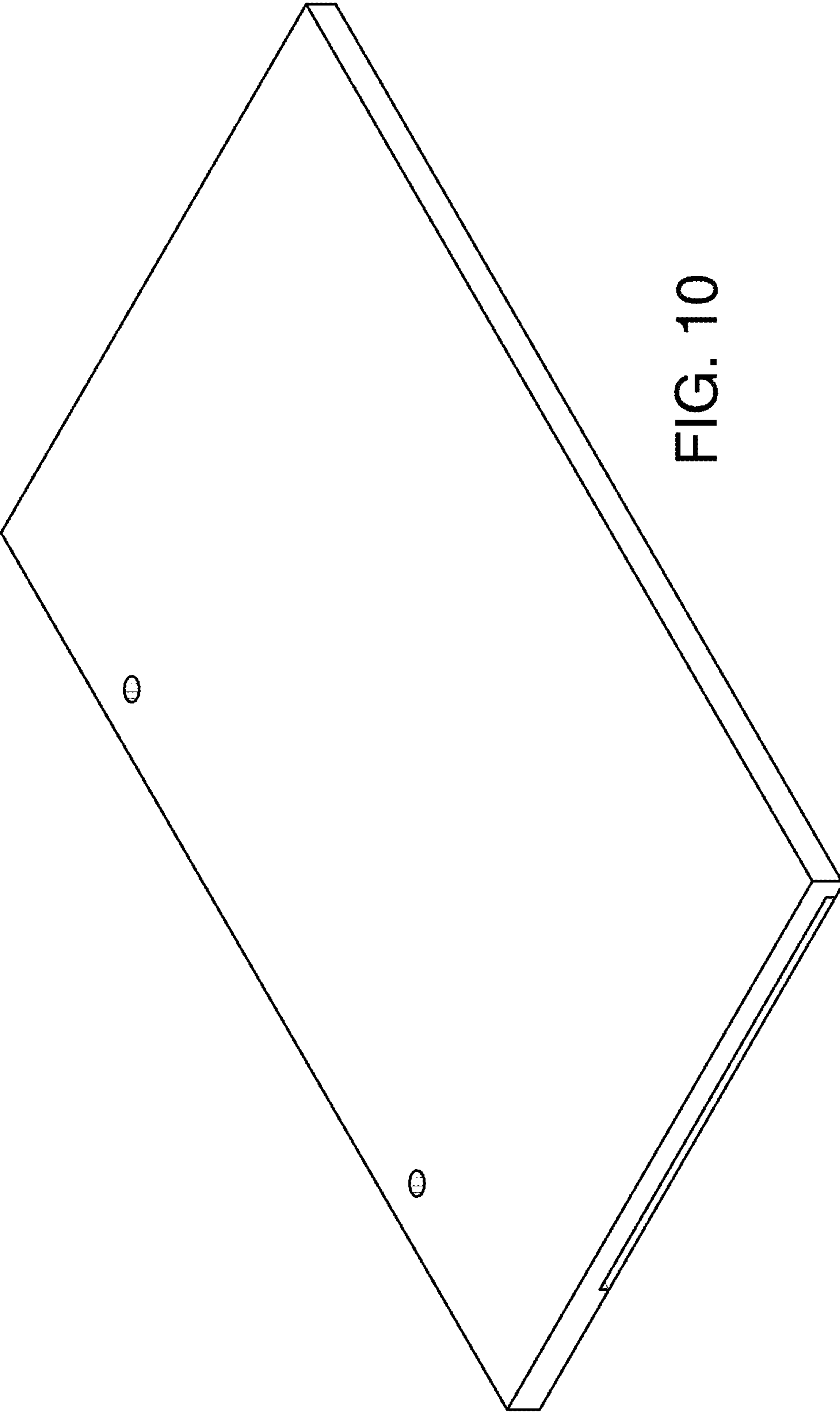


FIG. 10

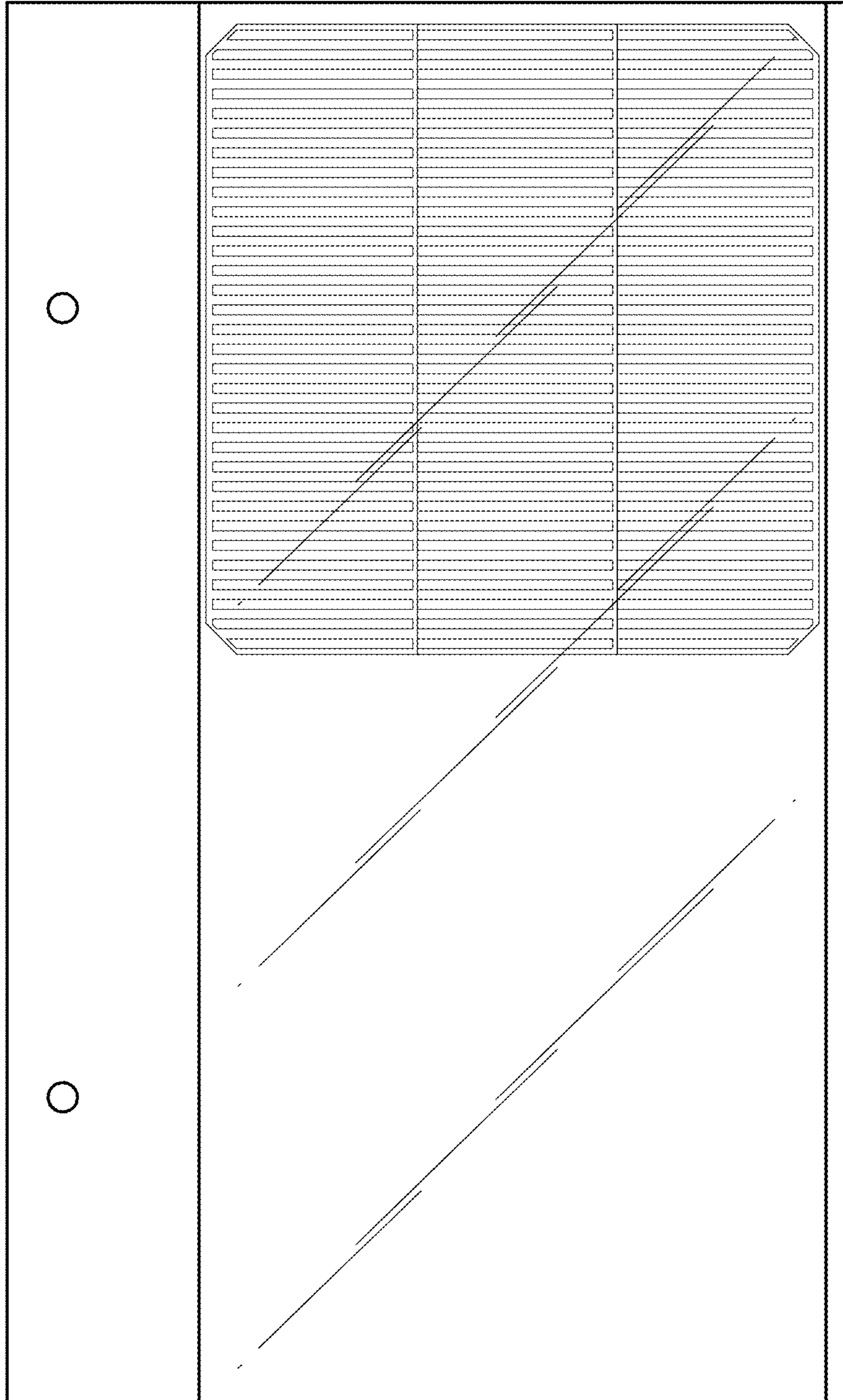


FIG. 11

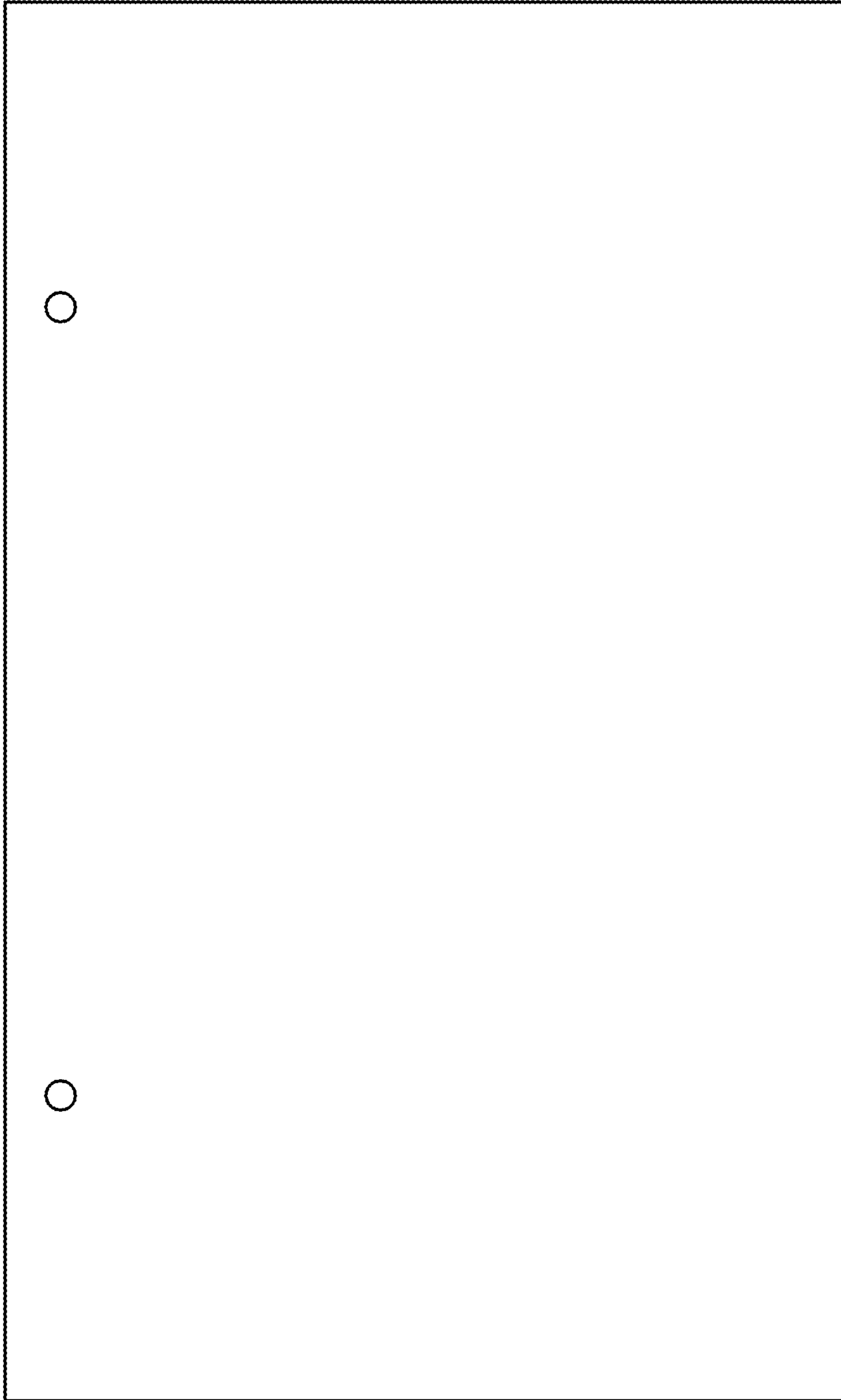


FIG. 12



FIG. 13



FIG. 14



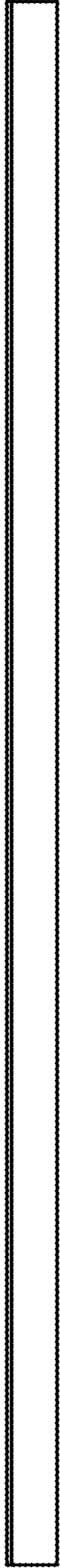


FIG. 15

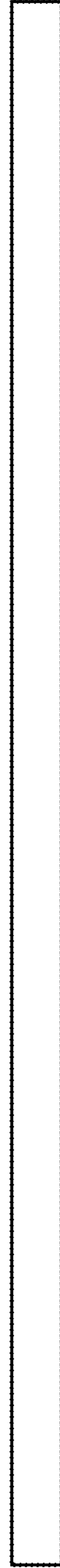


FIG. 16