



US00D919561S

(12) **United States Design Patent** (10) **Patent No.:** **US D919,561 S**
Jansen et al. (45) **Date of Patent:** **** May 18, 2021**

- (54) **BATTERY MODULE**
- (71) Applicant: **Transportation IP Holdings, LLC**,
Norwalk, CT (US)
- (72) Inventors: **Patrick Lee Jansen**, Schenectady, NY
(US); **Neil Bradley**, Erie, PA (US);
Gregory Badders, Erie, PA (US);
Michael Jay Grutkowski, Erie, PA
(US)
- (73) Assignee: **TRANSPORTATION IP HOLDINGS,**
LLC, Norwalk, CT (US)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/693,882**
- (22) Filed: **Jun. 5, 2019**

Related U.S. Application Data

- (62) Division of application No. 29/595,064, filed on Feb.
24, 2017, now Pat. No. Des. 855,562.
- (51) **LOC (13) Cl.** **13-02**
- (52) **U.S. Cl.**
USPC **D13/103**
- (58) **Field of Classification Search**
USPC D13/102–106, 110, 118–119, 184
CPC Y02E 60/12; Y02E 60/122; Y02E 60/124;
Y02E 60/50; H01M 2/02; H01M 2/022;
H01M 2/0202; H01M 2/0207; H01M
2/0212; H01M 2/1061; H01M 2/1022;
H01M 2/1055; H01M 2/1066; H01M
2/105; H01M 2/204; H01M 10/4257;
H01M 10/0436; H01M 10/48
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- D419,131 S 1/2000 Andrews et al.
- D604,696 S * 11/2009 Tasai D13/104
- 8,034,476 B2 10/2011 Ha et al.

- 8,257,855 B2 9/2012 Ijaz et al.
- 8,409,744 B2 4/2013 Ijaz et al.
- D682,778 S 5/2013 Baumgartner et al.
- 8,852,781 B2 10/2014 Merriman et al.
- D719,088 S * 12/2014 Koebler D13/104
- 8,922,157 B2 * 12/2014 Simonazzi H01M 10/42
320/106
- D727,254 S 4/2015 Kinoshita et al.
- D742,307 S * 11/2015 DeKeuster D13/103
- D757,645 S 5/2016 Oliver et al.
- D762,566 S 8/2016 Tea et al.

(Continued)

OTHER PUBLICATIONS

GE's Largest Battery Deal Yet Will Support a 200MW Australian Solar Plant, published Sep. 19, 2019, retrieved on Jun. 23, 2020, retrieved from the Internet URL: <https://www.greentechmedia.com/articles/read/ge-largest-battery-system-will-back-up-200-mw-australian-solar-plant>.*

(Continued)

Primary Examiner — Catherine S Posthauer
Assistant Examiner — Alison M Ofstun
(74) *Attorney, Agent, or Firm* — McCoy Russell LLP

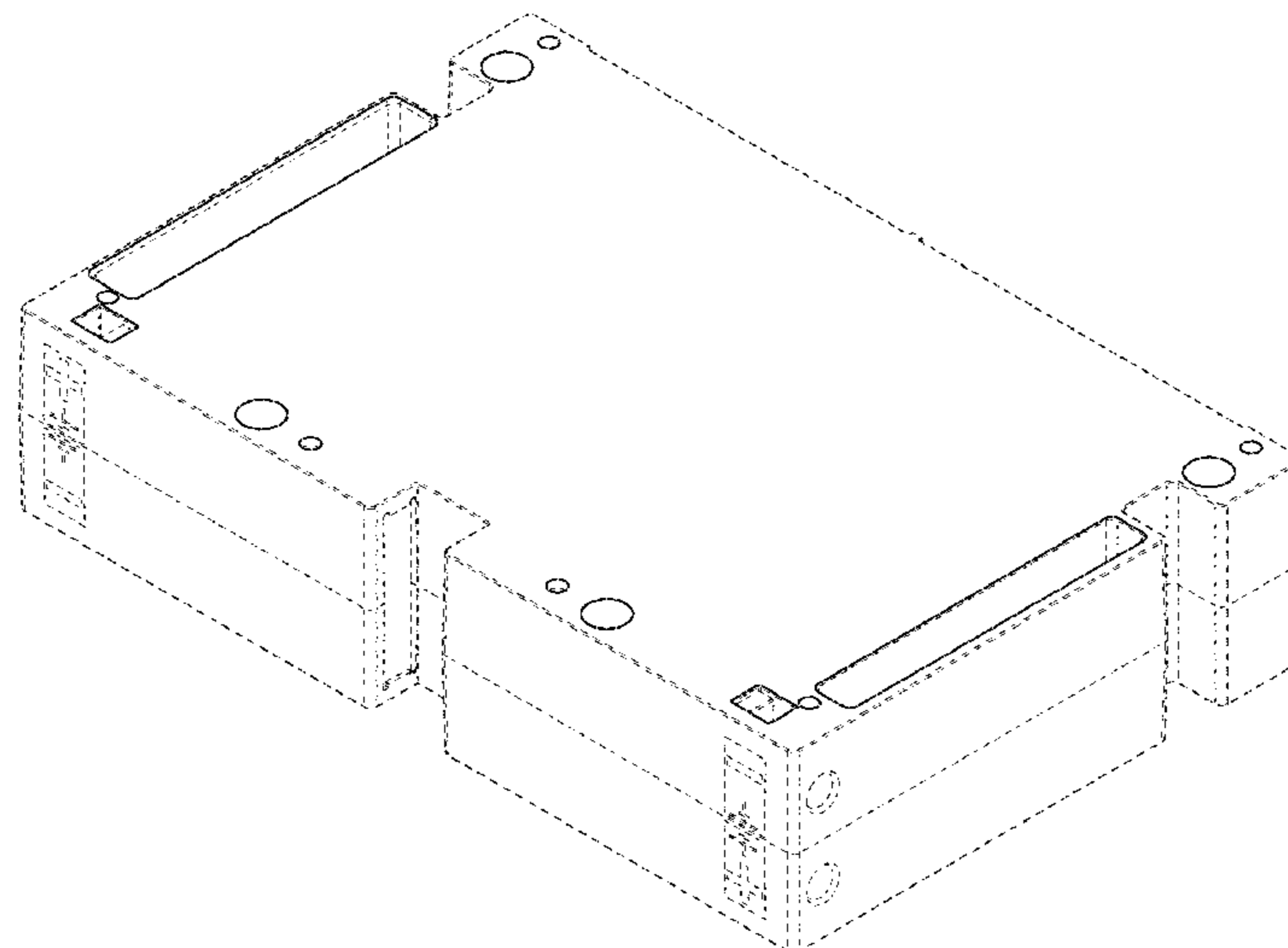
(57) **CLAIM**

The ornamental design for a battery module, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a battery module showing our new design;
FIG. 2 is a top plan view thereof;
FIG. 3 is a bottom plan view thereof;
FIG. 4 is a front view thereof;
FIG. 5 is a rear view thereof;
FIG. 6 is a side view thereof; and,
FIG. 7 is an opposite side view thereof.
The broken lines present in the drawings illustrate portions of the article which form no part of the claimed design.

1 Claim, 3 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

| | | | | | | |
|--------------|----|---|---------|-----------------|-------|-----------------------|
| D772,816 | S | * | 11/2016 | DeKeuster | | D13/119 |
| D784,920 | S | | 4/2017 | Walker | | |
| D794,554 | S | | 8/2017 | Chang | | |
| D797,660 | S | | 9/2017 | Oliver et al. | | |
| D811,996 | S | * | 3/2018 | Genoa | | D13/103 |
| 10,276,847 | B2 | * | 4/2019 | Cho | | H01M 2/1083 |
| D855,562 | S | * | 8/2019 | Jansen | | D13/103 |
| D861,593 | S | * | 10/2019 | Nakajima | | D13/103 |
| D884,598 | S | * | 5/2020 | Ebisawa | | D13/103 |
| 2006/0281002 | A1 | | 12/2006 | Aoki et al. | | |
| 2008/0241675 | A1 | | 10/2008 | Enari et al. | | |
| 2010/0209743 | A1 | | 8/2010 | Koh et al. | | |
| 2011/0076521 | A1 | * | 3/2011 | Shimizu | | H01M 2/26 429/7 |
| 2011/0293973 | A1 | * | 12/2011 | Kim | | H01M 2/1083 429/53 |
| 2014/0120390 | A1 | | 5/2014 | Merriman et al. | | |
| 2014/0174150 | A1 | | 6/2014 | Yaji Ma | | |
| 2015/0013150 | A1 | | 1/2015 | Kitagawa et al. | | |
| 2015/0111083 | A1 | * | 4/2015 | Kim | | H01M 2/06 429/120 |
| 2015/0364727 | A1 | | 12/2015 | Kim | | |
| 2017/0170438 | A1 | | 6/2017 | Jansen et al. | | |

OTHER PUBLICATIONS

Berman, B., "The Hybrid Car Battery: A Definitive Guide," Hybrid Cars Website, Available Online at <https://www.hybridcars.com/hybrid-car-battery>, Available as Early as Nov. 6, 2008, 10 pages.

Anderson, D., "Lowering costs of lithium-ion batteries for EV power trains," Fabricators & Manufacturers Association, International Website, Available Online at <https://www.fmanet.org/blog/2010/10/01/lowering-costs-lithium-on-batteries-ev-power-trains>, Oct. 1, 2010, 17 pages.

"Johnson Controls ie: 3 concept car makes its European debut / Vehicle demonstrates innovation in seating, electronics, interiors and batteries (mit Bild)," Press Portal Website, Available Online at <https://www.presseportal.de/en/om/19526/2111317>, Sep. 13, 2011, 7 pages.

Ingram, A., "500 Mile Electric Cars? New Lithium-Air Tech Has Potential," Green Car Reports Website, Available Online at https://www.greencarreports.com/new/1071654_500-mile-electric-cars-new-lithium-air-tech-has-potential, Jan. 12, 2012, 5 pages.

"Ather Energy," AtherEnergy Website, Available Online at <https://www.atherenergy.com/>, Available as Early as Dec. 6, 2013, 15 pages.

Crowe, P., "Spark is Named IIHS Top Safety Pick," GM Volt Website, Available Online at <http://gm-volt.com/2013/12/26/spark-is-named-iihs-top-safety-pick/>, Dec. 26, 2013, 17 pages.

Dillard, T., "Rare Look Inside A Tesla Model S Battery Pack," Inside EVs Website, Available Online at <https://insideevs.com/news/323682/rare-look-inside-a-tesla-model-s-battery-pack/>, Sep. 23, 2014, 9 pages.

Automotive Energy Supply Corporation, Envision AESC Website, Available Online at https://www.envision-aesc.com/en/product/liion_hev, Available as Early as Jan. 2017, 4 pages.

* cited by examiner

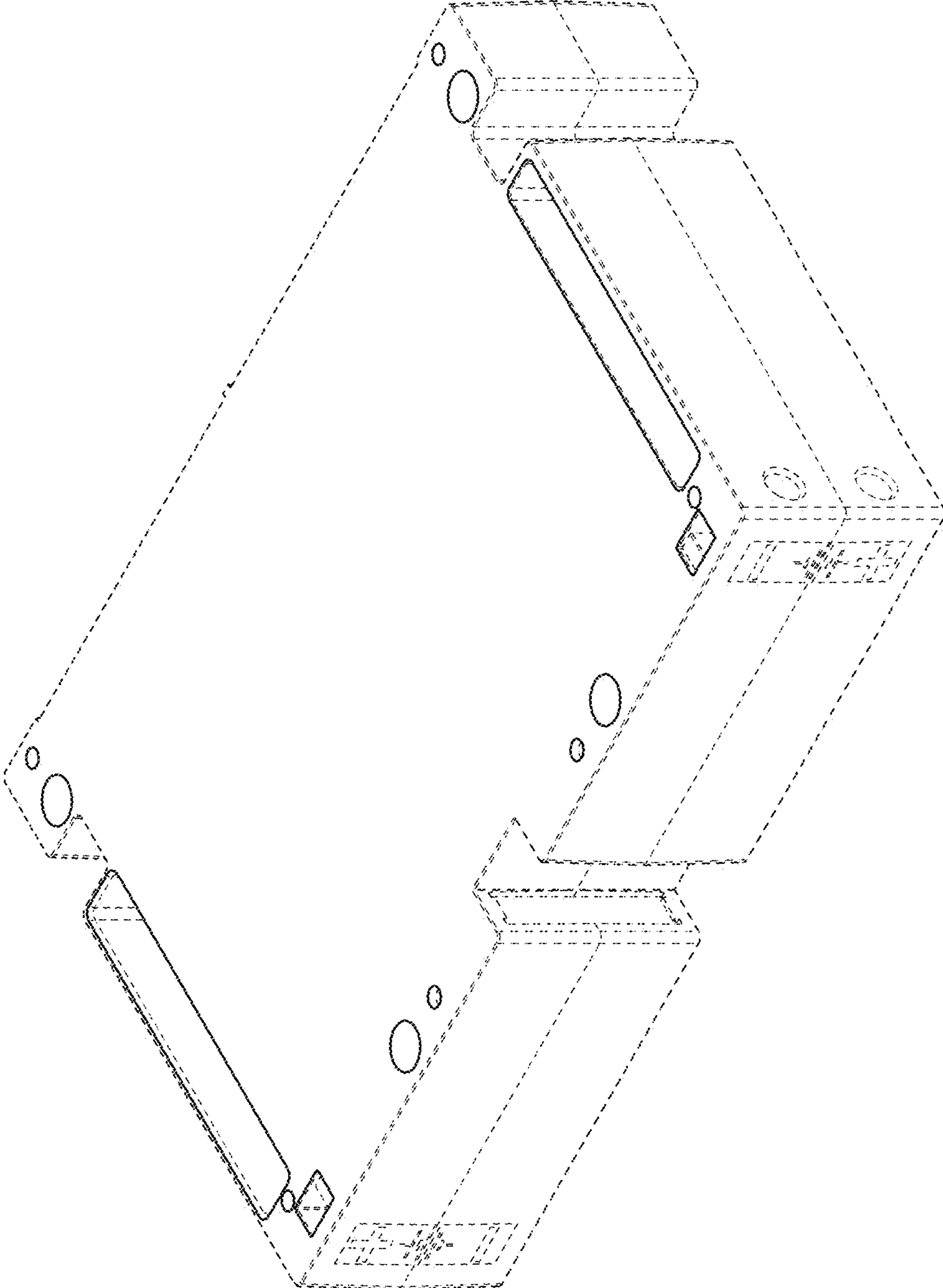


FIG. 1

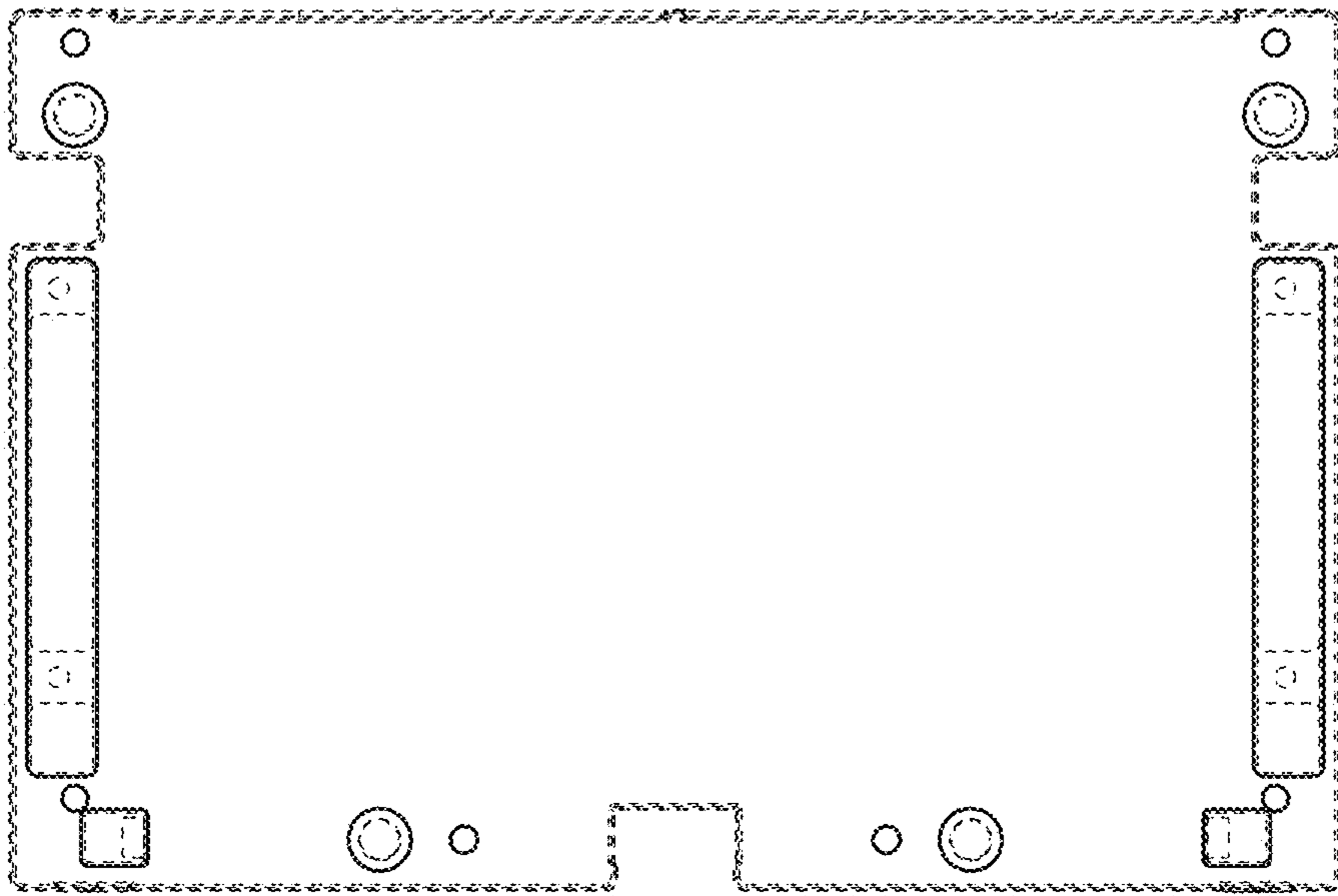


FIG. 2

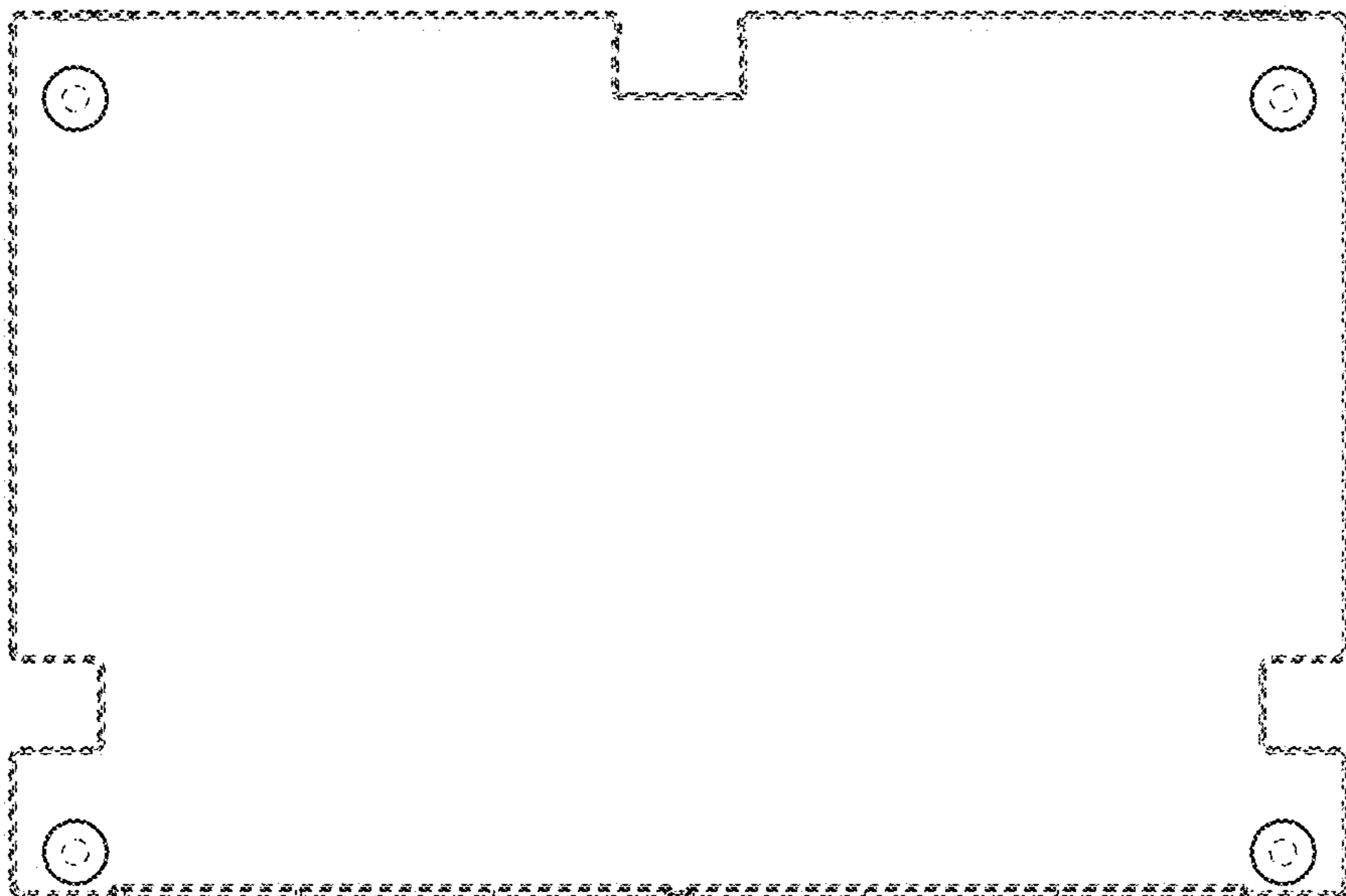


FIG. 3

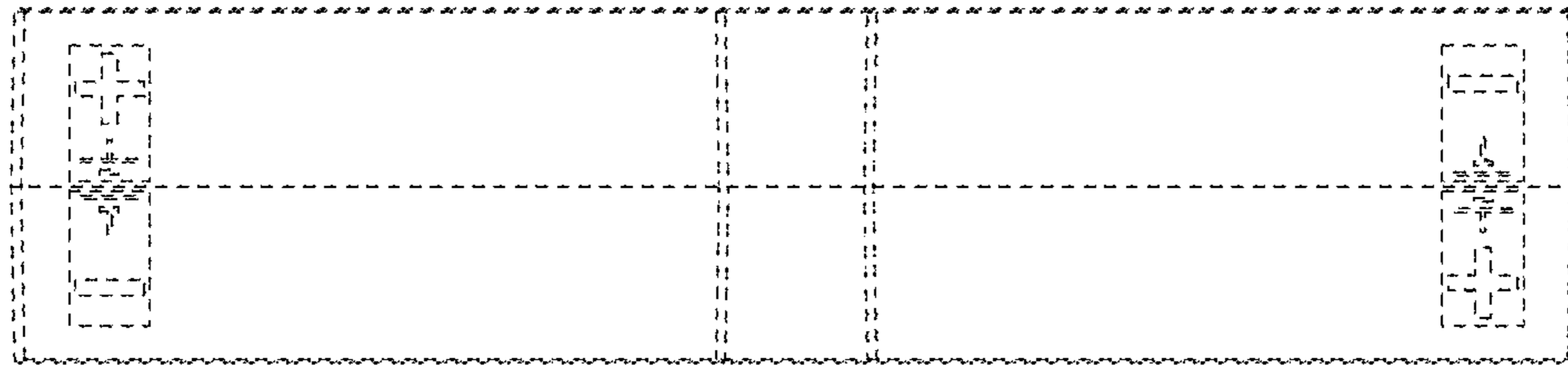


FIG. 4

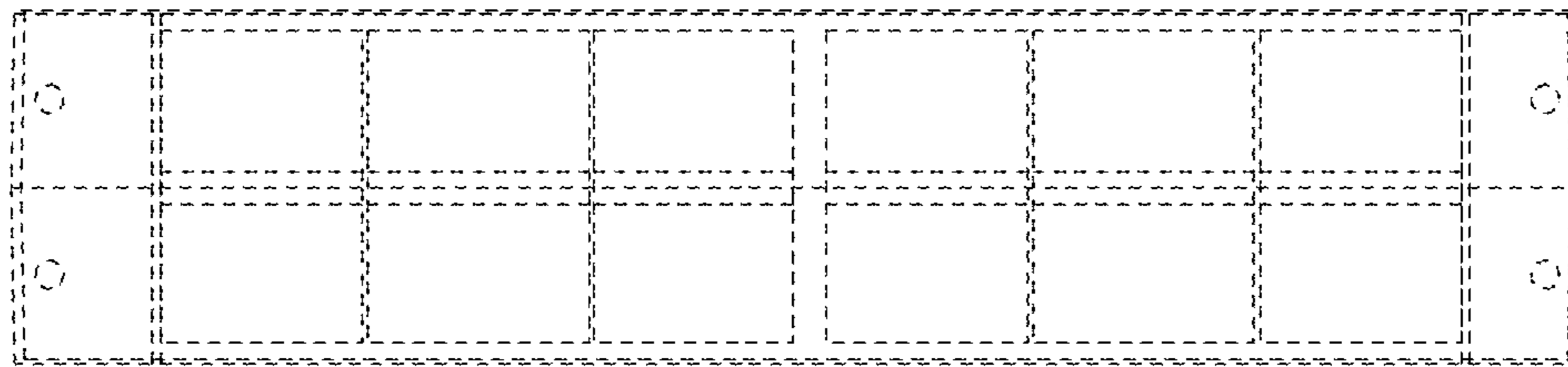


FIG. 5

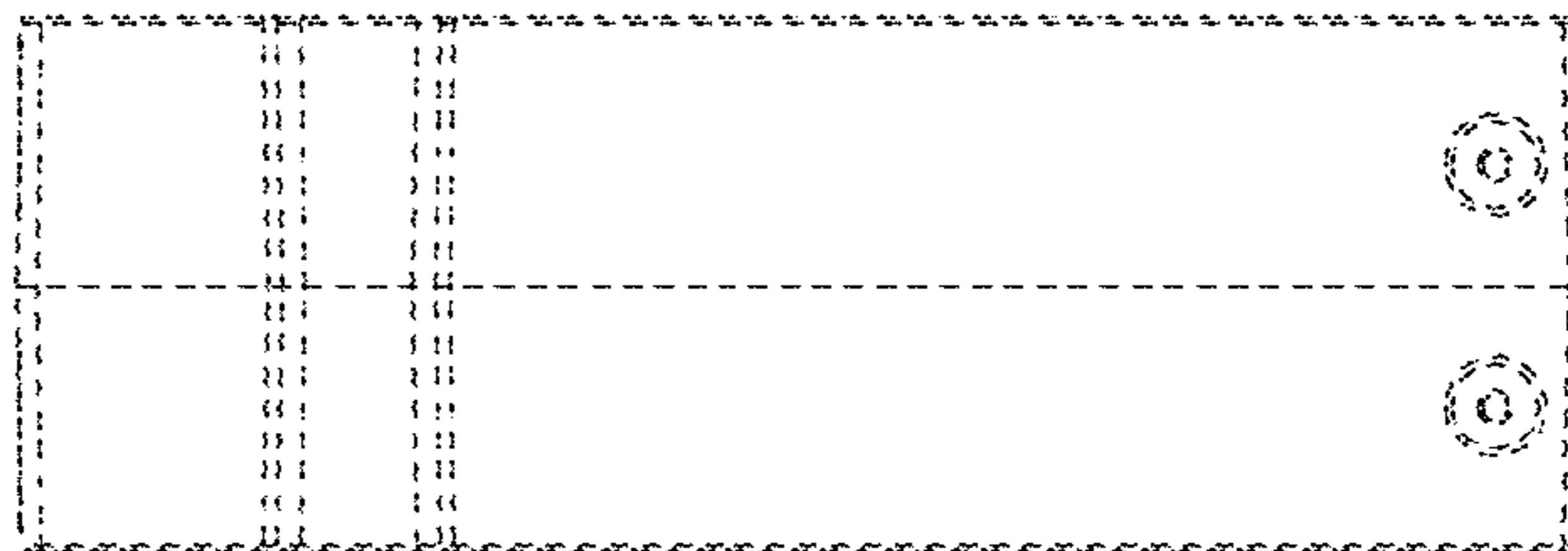


FIG. 6

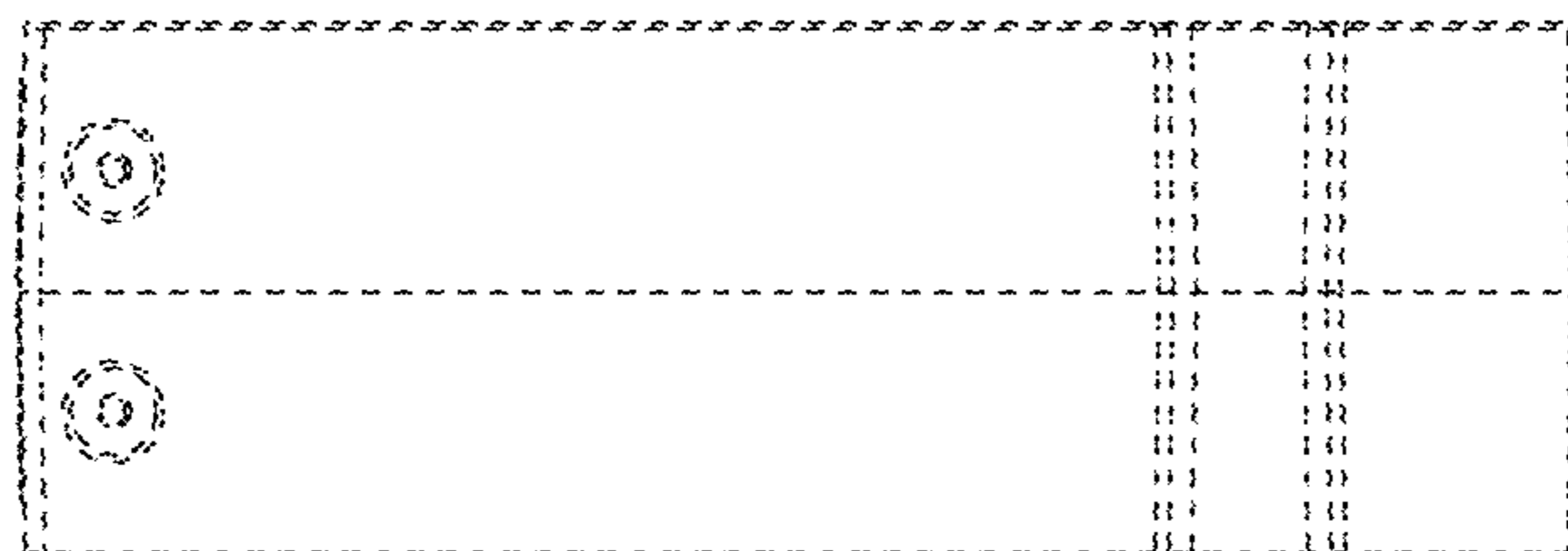


FIG. 7