



US00D850487S

(12) **United States Design Patent** (10) **Patent No.:** **US D850,487 S**  
**Squire** (45) **Date of Patent:** **\*\* Jun. 4, 2019**

(54) **ELECTRIC MOTOR CONTROLLER**

(56) **References Cited**

(71) Applicant: **Sevcon Limited**, Gateshead, Tyne & Wear (GB)

U.S. PATENT DOCUMENTS

(72) Inventor: **Gary Squire**, Gateshead (GB)

D352,275 S 11/1994 Crawley  
6,486,399 B1 \* 11/2002 Armstrong ..... H05K 5/0204  
174/58  
D503,389 S 3/2005 Dabrowski et al.  
D722,576 S 2/2015 Zimmer  
D722,577 S \* 2/2015 Zimmer ..... D13/179  
9,281,607 B2 \* 3/2016 Lee ..... H01R 13/5202  
D772,299 S \* 11/2016 Okamoto ..... D15/5  
D772,300 S \* 11/2016 Okamoto ..... D15/5  
D772,943 S \* 11/2016 Okamoto ..... D15/5  
9,730,349 B2 8/2017 Nuriya  
9,756,741 B2 9/2017 Blossfeld et al.  
2002/0112869 A1 8/2002 Kobayashi et al.  
2003/0161110 A1 8/2003 Spasevski et al.  
2005/0115727 A1 6/2005 Sakata  
2006/0082975 A1 4/2006 Caines et al.  
2011/0085307 A1 4/2011 Burgi et al.  
2012/0028135 A1 \* 2/2012 Ohashi ..... B62D 25/20  
429/400

(73) Assignee: **SEVCON LIMITED**, Gateshead, Tyne and Wear (GB)

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

(21) Appl. No.: **29/595,445**

(22) Filed: **Feb. 28, 2017**

(30) **Foreign Application Priority Data**

Aug. 31, 2016 (EM) ..... 003359504-0001  
Aug. 31, 2016 (EM) ..... 003359504-0002  
Aug. 31, 2016 (EM) ..... 003359504-0003

(51) **LOC (11) Cl.** ..... **15-01**

(52) **U.S. Cl.**  
USPC ..... **D15/5**

(58) **Field of Classification Search**

USPC .... D15/5; D9/737, 424, 416, 425, 347, 761;  
D7/553.1, 555; D13/184, 179, 119, 122,  
D13/112, 162, 164  
CPC ..... F02D 29/00; F02D 41/20; F02D 2400/18;  
F02D 2400/21; F02D 2041/285; H01L  
25/162; H05K 5/0091; H05K 5/0204;  
H05K 5/0073; H05K 5/0217; H05K  
5/0243; H05K 5/03; H05K 5/0247; H05K  
5/04; H05K 5/06; H05K 5/069; H05K  
5/0221; H05K 5/061; H05K 5/0056;  
H02G 3/08; B60R 16/0239; B60L  
11/1803; H02P 7/298; H02P 6/001; H02P  
6/34; H02P 7/04; H01R 13/5213; H01R  
13/46

See application file for complete search history.

(Continued)

*Primary Examiner* — T Chase Nelson

*Assistant Examiner* — Ania Aman

(74) *Attorney, Agent, or Firm* — Norton Rose Fulbright  
US LLP

(57) **CLAIM**

The ornamental design for an electric motor controller, as shown and described.

**DESCRIPTION**

FIG. 1 is a top orthogonal view of my design for an electric motor controller;

FIG. 2 is a side orthogonal view of my design;

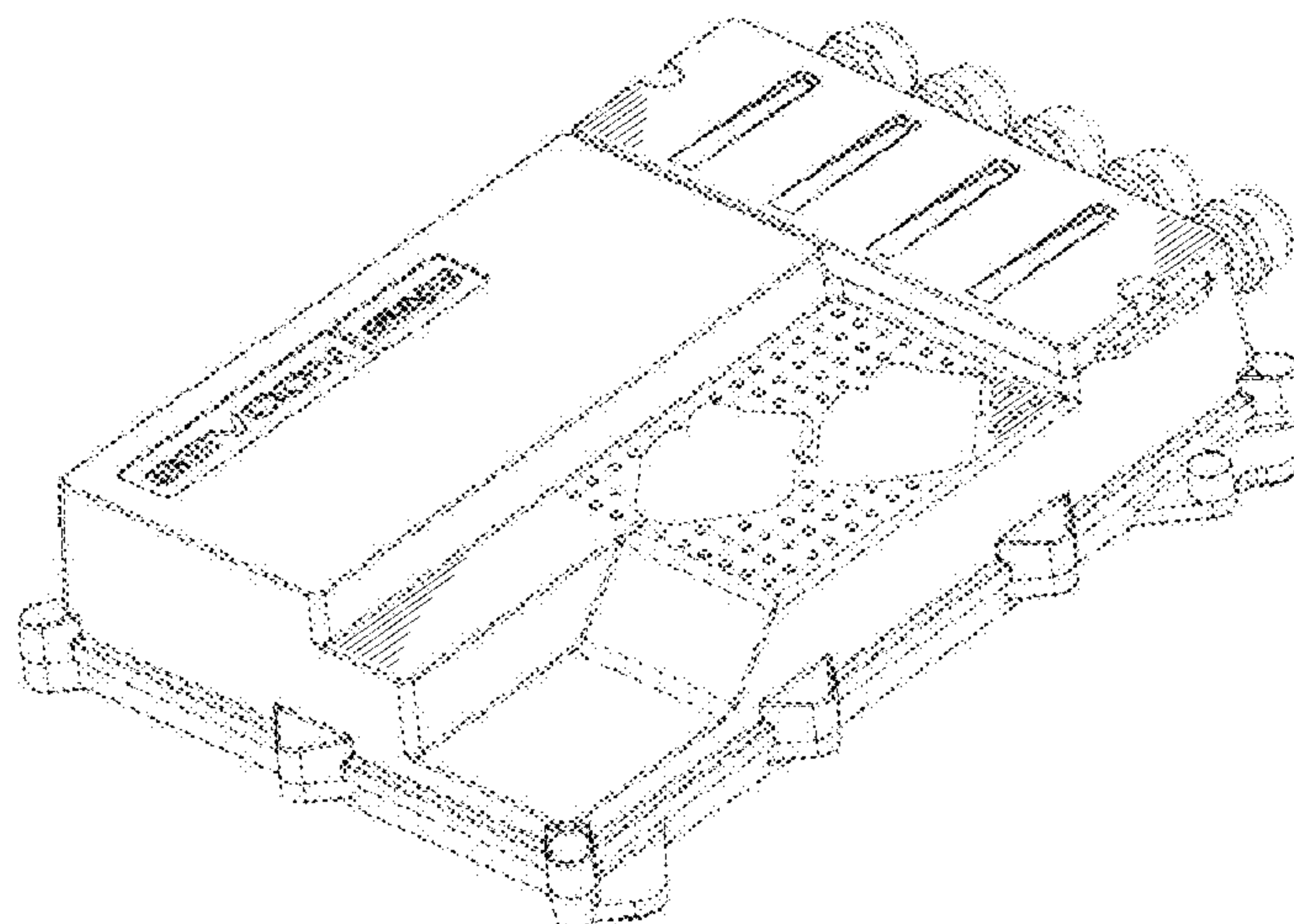
FIG. 3 is a bottom orthogonal view of my design;

FIG. 4 is an upper perspective view of my design; and,

FIG. 5 is a front orthogonal view of my design.

The broken lines shown in the view depict unclaimed environmental subject matter only and form no part of the claimed design.

**1 Claim, 4 Drawing Sheets**





(56)

## References Cited

## U.S. PATENT DOCUMENTS

|              |      |         |                  |                         |
|--------------|------|---------|------------------|-------------------------|
| 2013/0146373 | A1   | 6/2013  | Kosaki et al.    |                         |
| 2013/0286597 | A1   | 10/2013 | Zhang            |                         |
| 2014/0030563 | A1 * | 1/2014  | Hoshi .....      | H01M 2/1077<br>429/72   |
| 2014/0065877 | A1   | 3/2014  | Ohhashi          |                         |
| 2014/0111950 | A1   | 4/2014  | Yamasaki et al.  |                         |
| 2014/0131536 | A1   | 5/2014  | Riedel et al.    |                         |
| 2014/0334115 | A1   | 11/2014 | Yang et al.      |                         |
| 2015/0137673 | A1 * | 5/2015  | Mo .....         | H05K 5/0221<br>312/333  |
| 2015/0271933 | A1   | 9/2015  | Kaneko et al.    |                         |
| 2015/0282362 | A1   | 10/2015 | Nuriya et al.    |                         |
| 2015/0311836 | A1 * | 10/2015 | Yoon .....       | H02P 6/14<br>318/400.26 |
| 2016/0031398 | A1   | 2/2016  | Azuma et al.     |                         |
| 2016/0200270 | A1   | 7/2016  | Tanahashi et al. |                         |
| 2016/0272073 | A1 * | 9/2016  | Hosaka .....     | B60L 11/1812            |
| 2017/0112011 | A1   | 4/2017  | Nuriya et al.    |                         |
| 2017/0149223 | A1   | 5/2017  | Sasaki et al.    |                         |
| 2017/0341607 | A1 * | 11/2017 | Sumida .....     | B60R 16/0239            |

\* cited by examiner



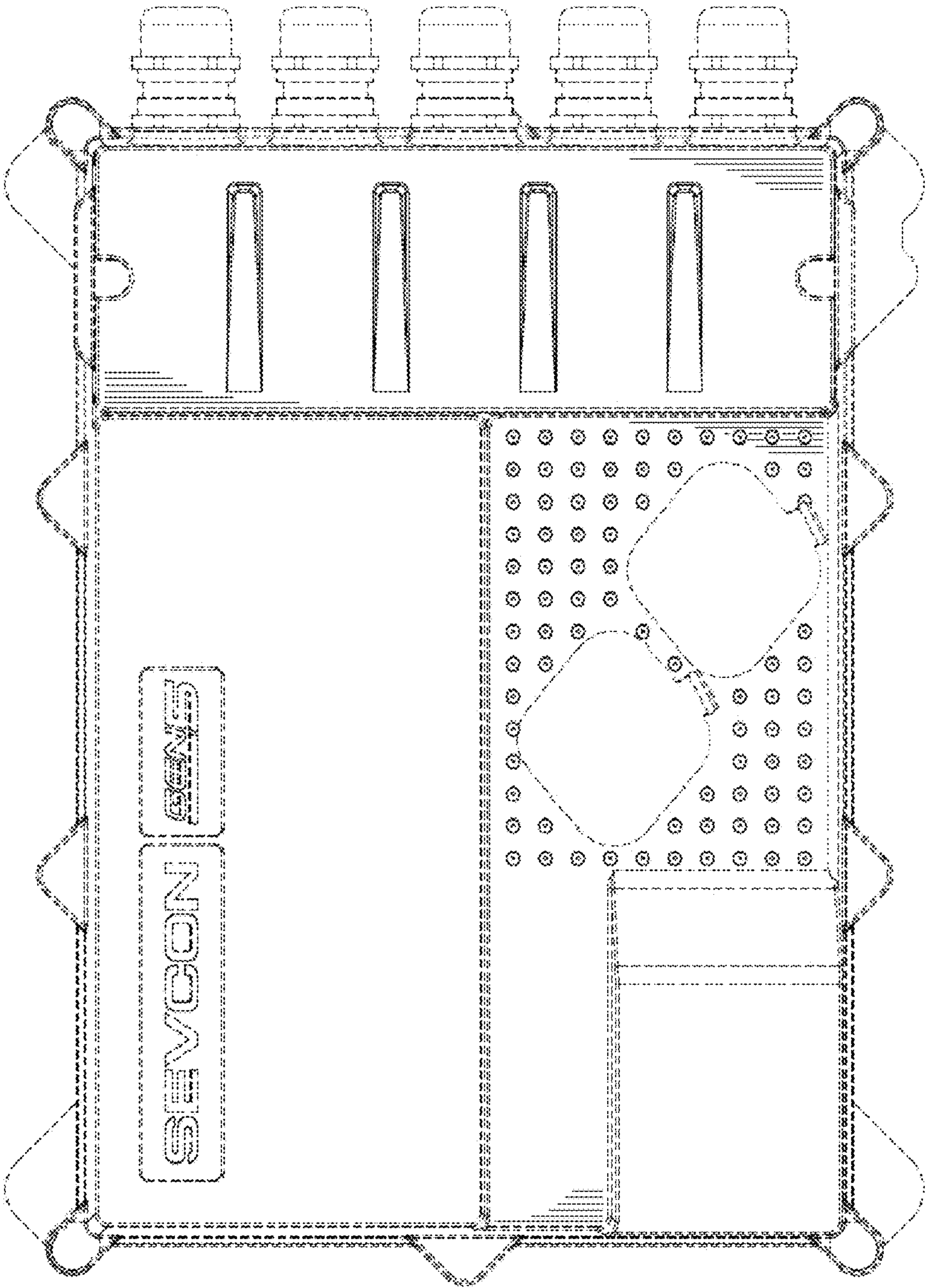


FIG. 1



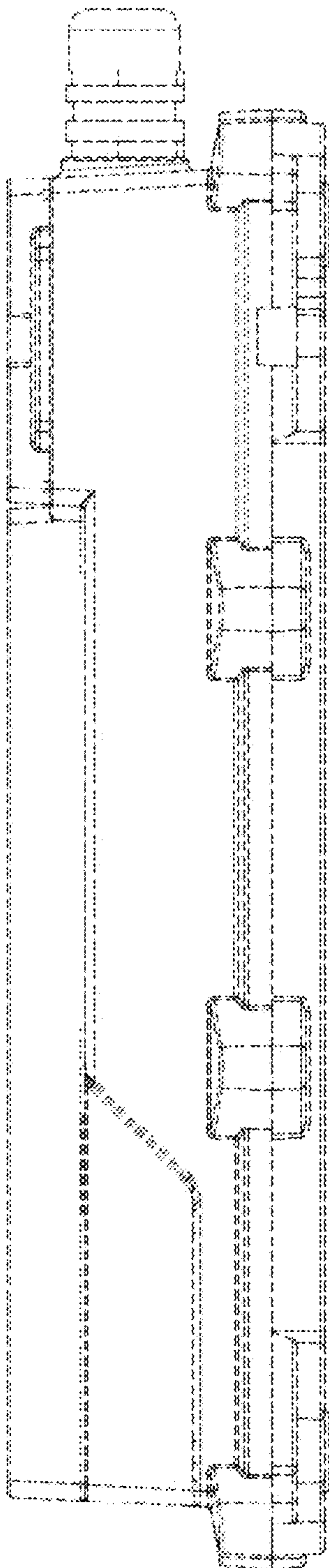


FIG. 2

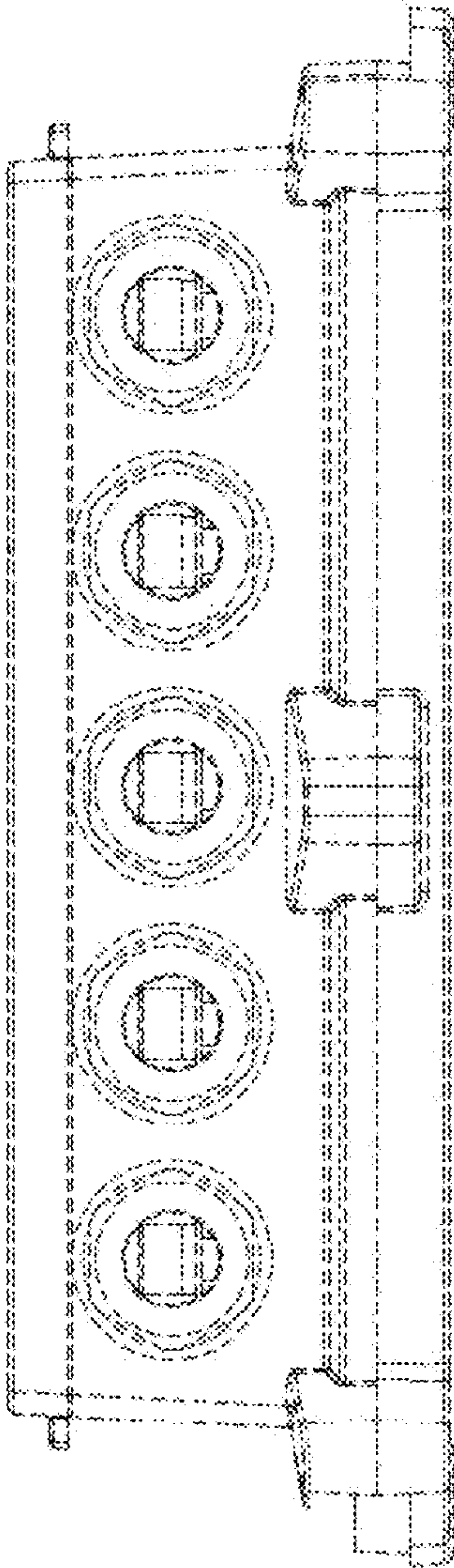


FIG. 5



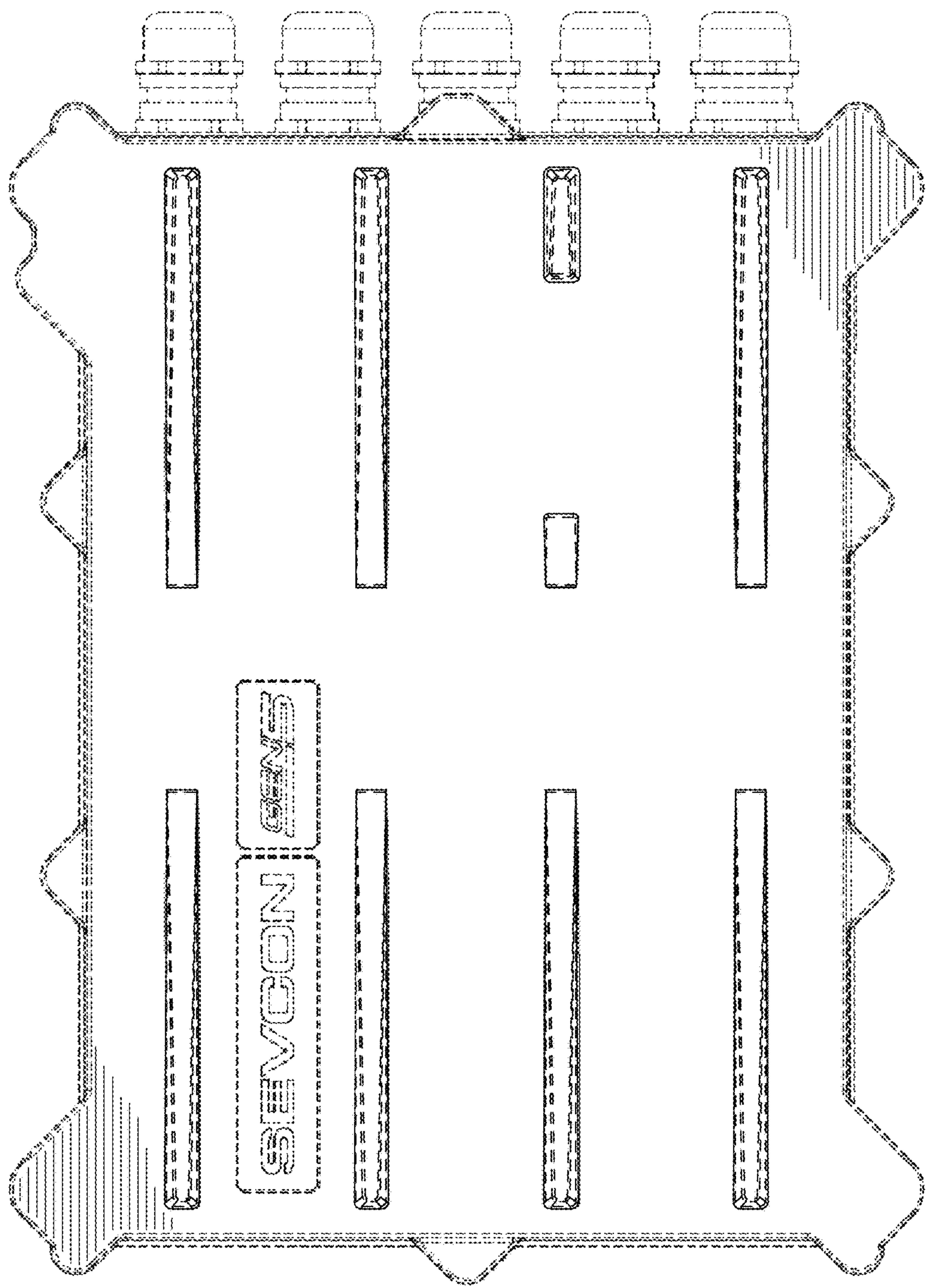


FIG. 3



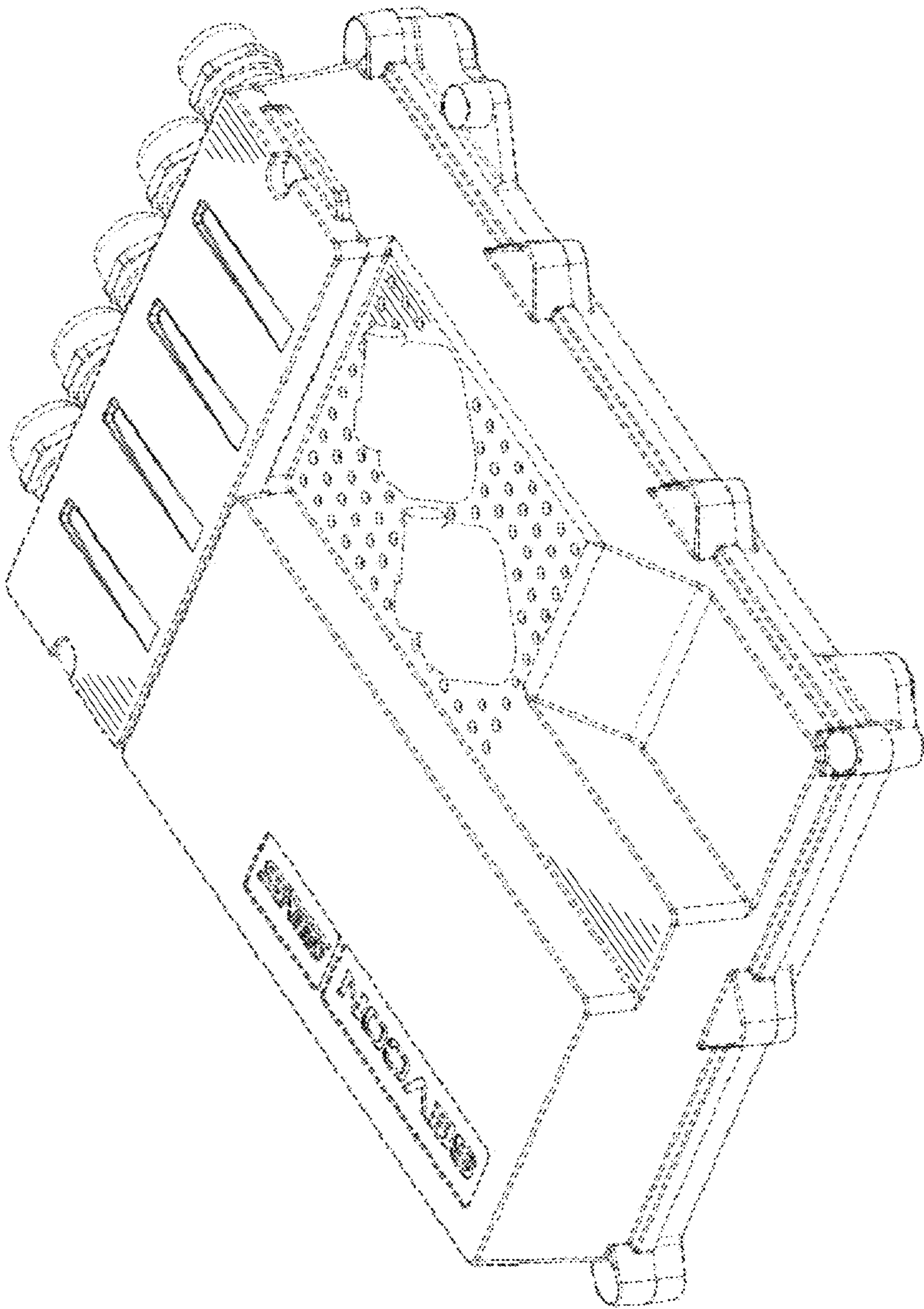


FIG. 4