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# (12) United States Design Patent

Chen et al.

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(54) **SEMICONDUCTOR DEVICE**

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(**) Term: **14 Years**

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(30) **Foreign Application Priority Data**

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(51) **LOC (10) Cl.** ..... **13-03**

(52) **U.S. Cl.**
USPC ..... **D13/182**

(58) **Field of Classification Search**
USPC ..... D13/110, 182; 257/668, 678, 690; 361/713, 679.01, 728, 736, 760, 761, 361/775, 820; 324/71.5, 252; 174/250, 253; 438/64, 65, 66
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | | | |
|---|---|---|---|---|---|
| D357,672 | S | * | 4/1995 | Terasawa et al. | D13/182 |
| D364,383 | S | * | 11/1995 | Yamada et al. | D13/182 |
| D364,384 | S | * | 11/1995 | Shimizu et al. | D13/182 |
| D432,096 | S | * | 10/2000 | Jeon et al. | D13/182 |
| D441,726 | S | * | 5/2001 | Sofue et al. | D13/182 |
| D470,825 | S | * | 2/2003 | Iwasaki et al. | D13/182 |
| 6,521,983 | B1 | * | 2/2003 | Yoshimatsu et al. | 257/678 |
| D476,959 | S | * | 7/2003 | Yamada et al. | D13/182 |
| D539,761 | S | * | 4/2007 | Takahashi et al. | D13/182 |
| D548,202 | S | * | 8/2007 | Takahashi | D13/182 |
| D548,203 | S | * | 8/2007 | Takahashi | D13/182 |
| D587,662 | S | * | 3/2009 | Soutome et al. | D13/182 |
| D589,012 | S | * | 3/2009 | Soyano et al. | D13/182 |
| D648,290 | S | * | 11/2011 | Mori | D13/182 |
| D653,633 | S | * | 2/2012 | Soyano | D13/182 |
| D653,634 | S | * | 2/2012 | Soyano | D13/182 |

(Continued)

OTHER PUBLICATIONS

U.S. Appl. No. 29/458,663, filed Jun. 21, 2013.

(Continued)

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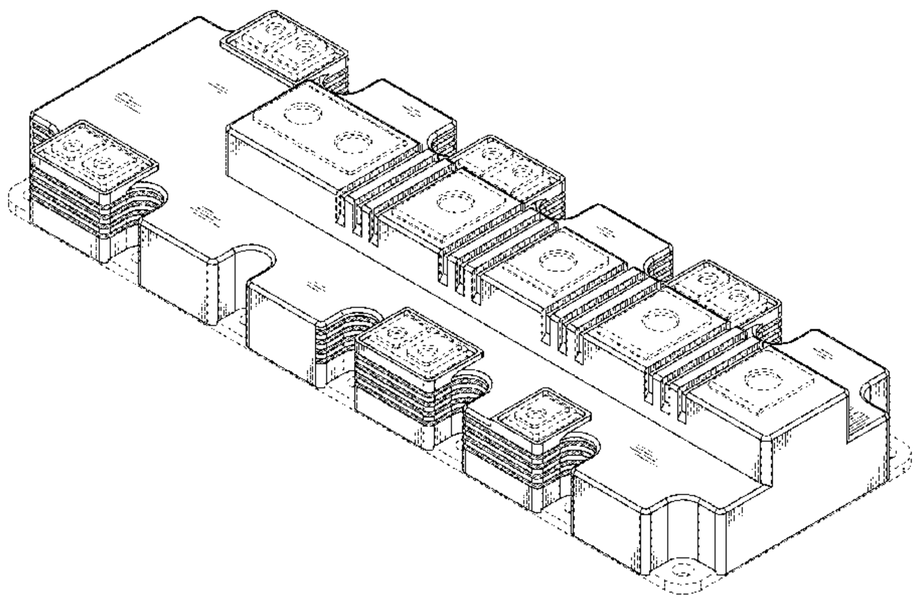
(57) **CLAIM**

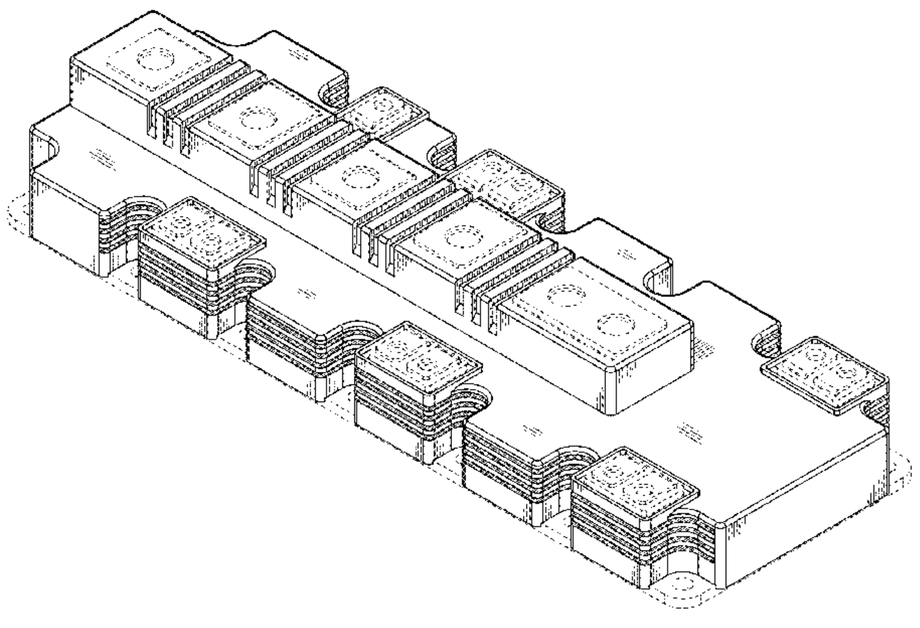
The ornamental design for a semiconductor device, as shown and described.

**DESCRIPTION**

FIG. **1** is a front view of a semiconductor device showing our new design;
FIG. **2** is a rear view of the semiconductor device of FIG. **1**;
FIG. **3** is a left side view of the semiconductor device of FIG. **1**;
FIG. **4** is a right side view of the semiconductor device of FIG. **1**;
FIG. **5** is a top view of the semiconductor device of FIG. **1**;
FIG. **6** is a bottom view of the semiconductor device of FIG. **1**;
FIG. **7** is a top, front and right side perspective view of the semiconductor device of FIG. **1**; and,
FIG. **8** is a top, rear and left side perspective view of the semiconductor device of FIG. **1**.
The broken lines shown in the drawings represent portions of the semiconductor device that form no part of the claimed design.

**1 Claim, 8 Drawing Sheets**





(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | | |
|---|---|---|---|---|
| D673,922 | S * | 1/2013 | Moriai et al. | D13/182 |
| D686,174 | S * | 7/2013 | Soyano | D13/182 |
| D689,446 | S * | 9/2013 | Soyano | D13/180 |
| 2001/0038143 | A1 * | 11/2001 | Sonobe et al. | 257/690 |
| 2011/0044012 | A1 * | 2/2011 | Matsumoto | 361/728 |

OTHER PUBLICATIONS

U.S. Appl. No. 29/458,665, filed Jun. 21, 2013.

U.S. Appl. No. 29/458,667, filed Jun. 21, 2013.

U.S. Appl. No. 29/458,669, filed Jun. 21, 2013.

* cited by examiner

Fig.1

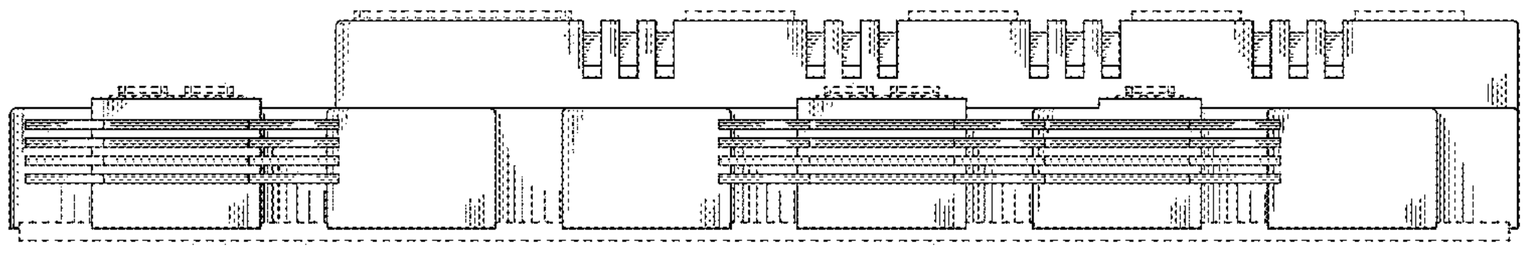


Fig.2

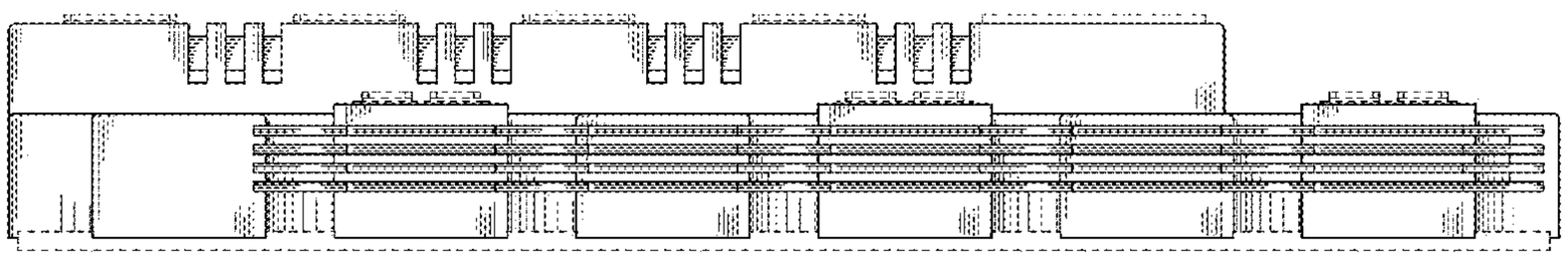


Fig.3

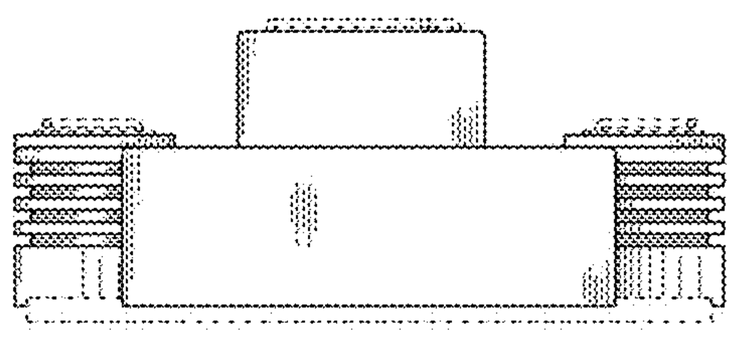


Fig.4

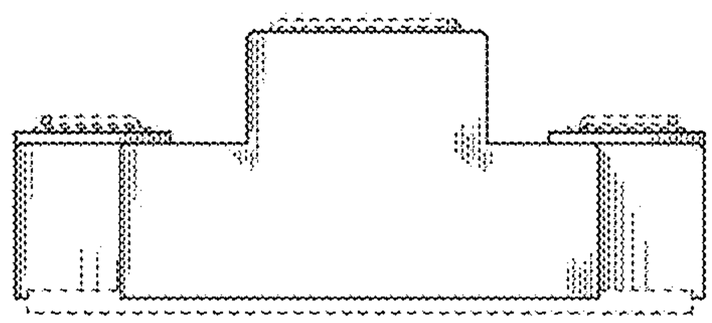


Fig.5

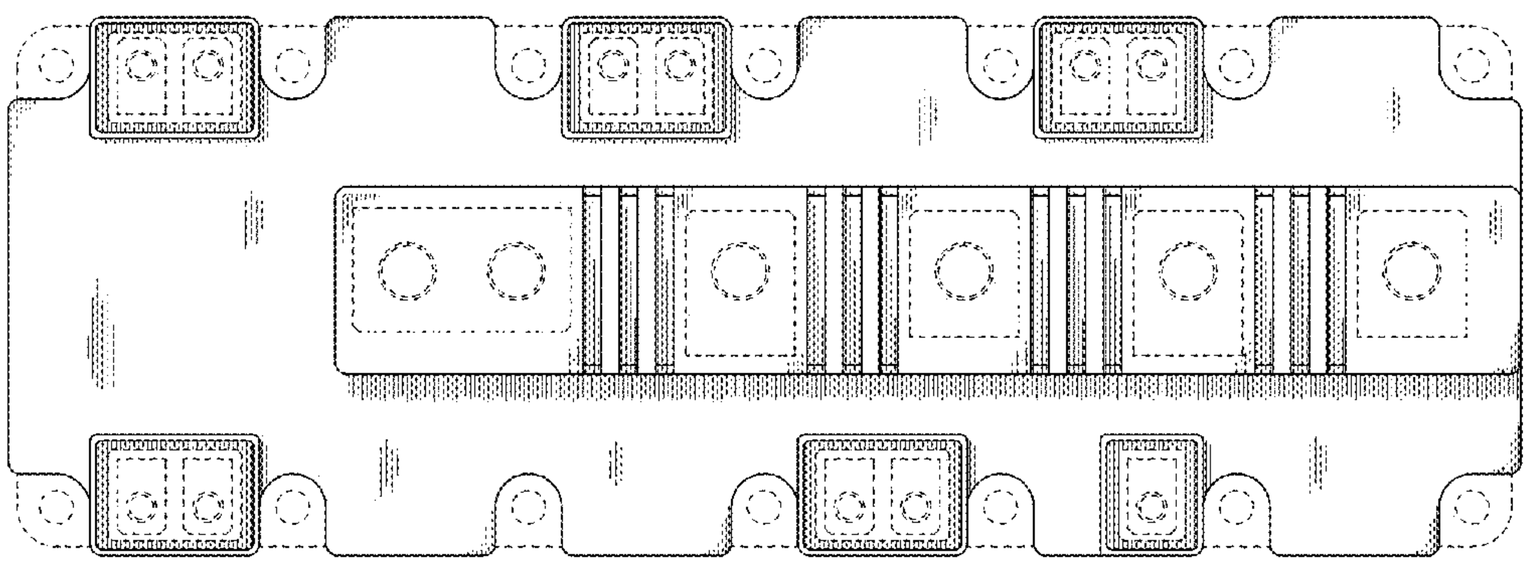


Fig.6

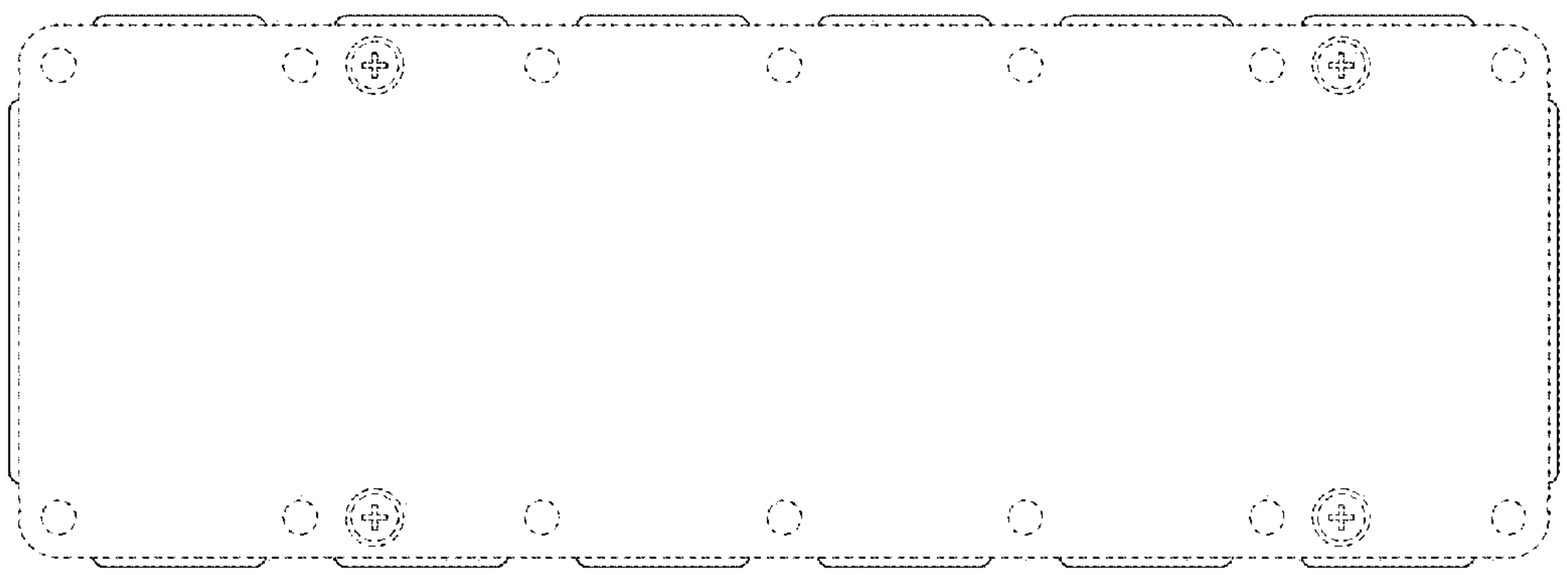


Fig.7

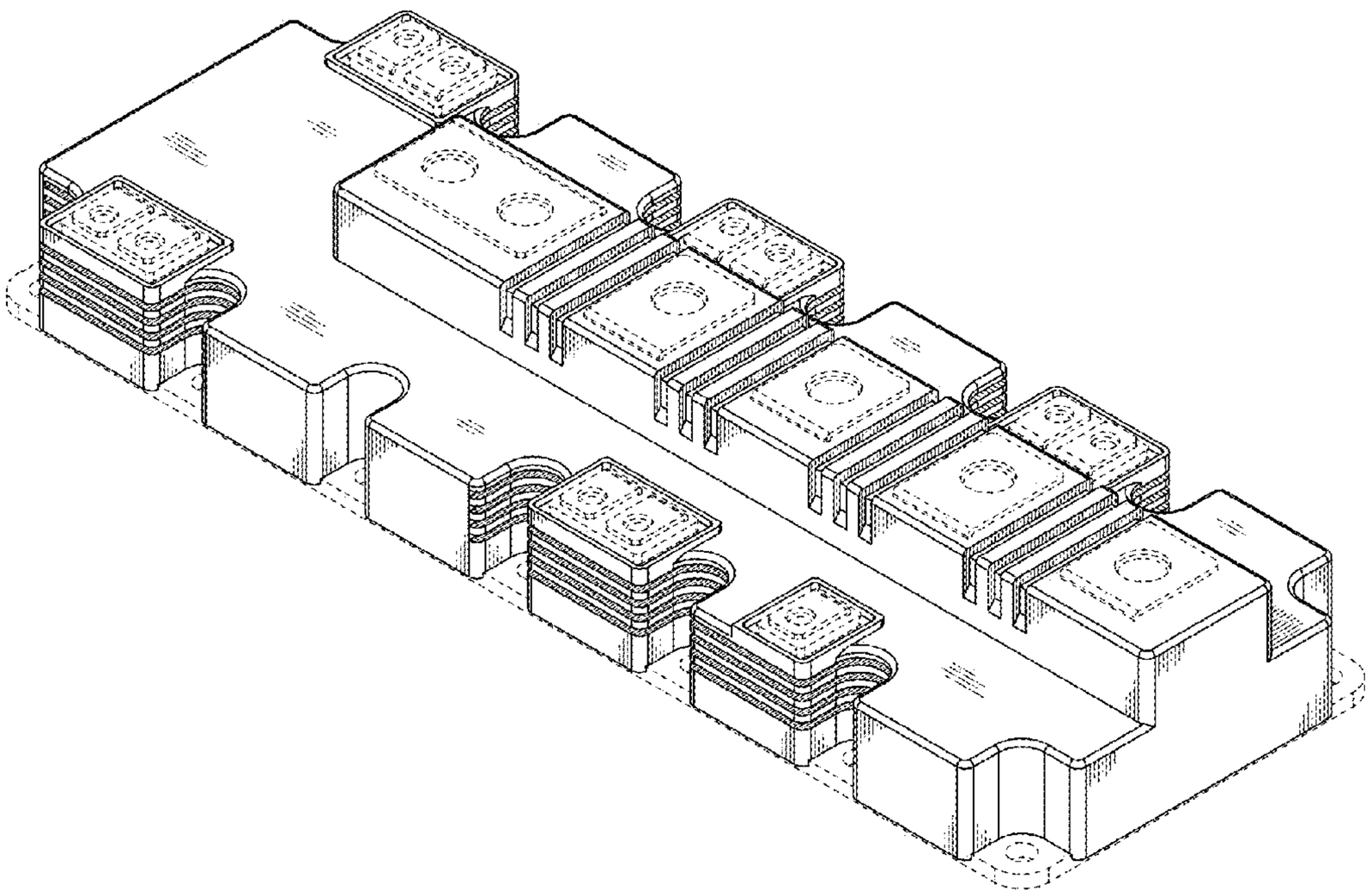


Fig.8