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(12) **United States Design Patent** (10) **Patent No.:** **US D835,587 S**  
**Byrne et al.** (45) **Date of Patent:** **\*\* Dec. 11, 2018**

(54) **RECEPTACLE FOR MODULAR WIRING SYSTEMS**

(56) **References Cited**

U.S. PATENT DOCUMENTS

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1,187,010 A	6/1916	Rodrigues
2,313,960 A	3/1943	O'Brien
2,320,332 A	5/1943	Morten
2,540,575 A	2/1951	Finizie
4,135,775 A	1/1979	Driscoll
4,367,370 A	1/1983	Wilson et al.
4,382,648 A	5/1983	Propst
4,551,577 A	11/1985	Byrne
4,775,328 A	10/1988	McCarthy
4,781,609 A	11/1988	Wilson et al.
4,959,021 A	9/1990	Byrne
4,990,110 A	2/1991	Byrne
4,993,576 A	2/1991	Byrne

(Continued)

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/609,852**

Photos of Applicant's product on sale at least as early as May 2011.  
Co-pending Design U.S. Appl. No. 29/553,670, filed Feb. 3, 2016.

(22) Filed: **Jul. 6, 2017**

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**Related U.S. Application Data**

(63) Continuation of application No. 29/553,670, filed on Feb. 3, 2016, now Pat. No. Des. 793,343, which is a continuation-in-part of application No. 14/291,791, filed on May 30, 2014, now Pat. No. 9,257,823.

(57) **CLAIM**

The ornamental design for a receptacle for modular wiring systems, as shown and described.

(51) **LOC (11) Cl.** ..... **13-03**

**DESCRIPTION**

(52) **U.S. Cl.**

USPC ..... **D13/152**

(58) **Field of Classification Search**

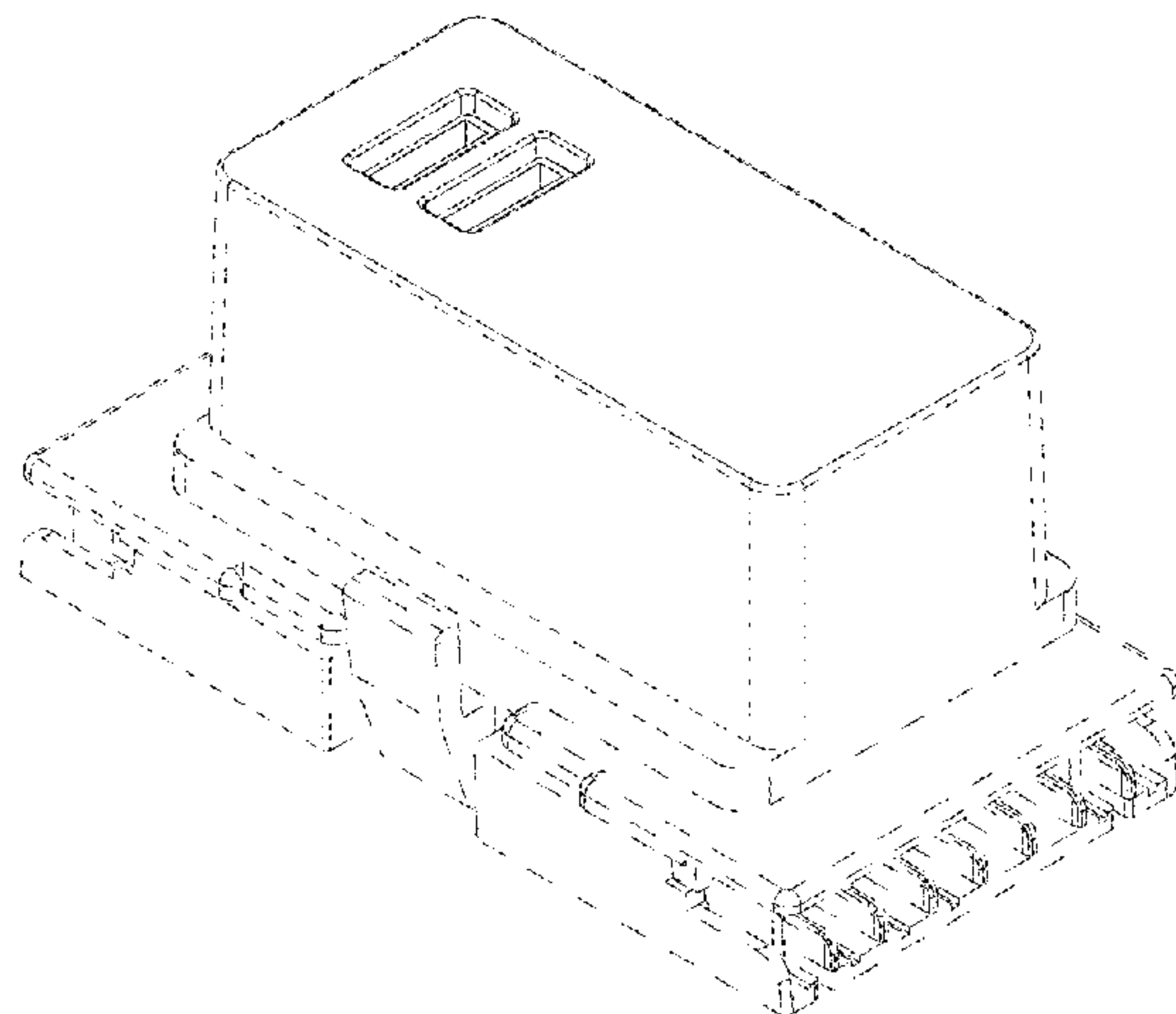
USPC ... D13/152, 139.1–139.8, 137.1–137.4, 147,  
D13/154, 108, 162, 158, 146, 107, 133,  
D13/103, 110, 156, 169, 177; D14/433,  
D14/435, 140.4, 240, 137, 140.1, 383;  
439/101, 131; D8/353; 174/66  
CPC ..... H57K 7/14; H01R 3/16; H01R 13/447;  
H02G 3/14

FIG. 1 is a front perspective view of a receptacle for modular wiring systems showing our new design;  
FIG. 2 is another front perspective view taken from an opposite end thereof;  
FIG. 3 is a front elevation thereof;  
FIG. 4 is a left side elevation thereof;  
FIG. 5 is a right side elevation thereof;  
FIG. 6 is a bottom plan view thereof; and,  
FIG. 7 is a top plan view thereof.

In the drawings, the broken lines depict unclaimed subject matter only and form no part of the claimed design.

See application file for complete search history.

**1 Claim, 2 Drawing Sheets**



(56)

## References Cited

## U.S. PATENT DOCUMENTS

- 5,013,252 A 5/1991 Nienhuis  
5,041,002 A 8/1991 Byrne  
5,073,120 A 12/1991 Lincoln  
5,087,207 A 2/1992 Byrne  
5,096,431 A 3/1992 Byrne  
5,096,434 A 3/1992 Byrne  
5,117,122 A 5/1992 Hogarth et al.  
5,164,544 A 11/1992 Snodgrass  
5,178,555 A 1/1993 Kilpatrick  
5,203,712 A 4/1993 Kilpatrick et al.  
5,252,086 A 10/1993 Russell et al.  
5,259,787 A 11/1993 Byrne  
D376,129 S \* 12/1996 Muller ..... D13/137.1  
5,582,522 A 12/1996 Johnson  
5,595,495 A 1/1997 Johnson et al.  
D382,854 S \* 8/1997 Muller ..... D13/137.2  
5,941,720 A 8/1999 Byrne  
D419,531 S \* 1/2000 Keung ..... D13/139.3  
6,027,352 A 2/2000 Byrne  
6,036,516 A 3/2000 Byrne  
6,036,517 A 3/2000 Byrne  
6,315,589 B1 11/2001 Inniss et al.  
6,405,139 B1 6/2002 Kicinski et al.  
D462,056 S \* 8/2002 Chung ..... D13/137.1  
6,445,571 B1 9/2002 Inniss et al.  
6,540,536 B1 4/2003 Young  
6,559,556 B1 5/2003 Wills  
6,857,896 B2 2/2005 Rupert et al.  
D535,256 S 1/2007 Fort et al.  
D542,223 S \* 5/2007 Bazayev ..... D13/139.3  
D544,840 S \* 6/2007 Hargreaves ..... D13/146  
D545,272 S \* 6/2007 Zhang ..... D13/139.3  
D545,764 S \* 7/2007 Allison ..... D13/137.1  
D547,272 S \* 7/2007 Ng ..... D13/137.2  
7,264,499 B2 9/2007 Kondas  
D557,396 S \* 12/2007 Cheng ..... D23/364  
D571,730 S \* 6/2008 Kidman ..... D13/139.3  
7,410,379 B1 8/2008 Byrne  
D579,880 S \* 11/2008 Birmingham ..... D13/133  
7,445,513 B1 \* 11/2008 Lee ..... H01R 31/06  
439/131  
7,455,535 B2 11/2008 Insalaco et al.  
7,465,178 B2 12/2008 Byrne  
7,520,762 B2 4/2009 Lehman et al.  
7,559,795 B2 7/2009 Byrne  
D601,514 S \* 10/2009 Lin ..... D13/177  
7,611,364 B2 \* 11/2009 Kidman ..... H01R 13/447  
174/66  
7,641,510 B2 1/2010 Byrne  
7,905,737 B2 3/2011 Byrne  
D638,357 S \* 5/2011 Sasada ..... D13/110  
8,033,846 B2 10/2011 Youssefi-Shams et al.  
D648,270 S \* 11/2011 Jiang ..... D13/103  
D662,885 S \* 7/2012 Hoffman ..... D13/139.1  
D666,973 S \* 9/2012 Junko ..... D13/139.3  
8,294,028 B2 \* 10/2012 Huang ..... H02G 3/14  
174/66  
8,317,547 B2 11/2012 Riner et al.  
D674,753 S \* 1/2013 Jansen ..... D13/139.1  
8,350,406 B2 1/2013 Byrne et al.  
D677,221 S \* 3/2013 McSweyn ..... D13/108  
D680,953 S \* 4/2013 Kuo ..... D13/137.2  
8,444,425 B2 5/2013 Byrne  
D686,577 S \* 7/2013 Flagello ..... D13/152  
8,496,492 B2 7/2013 Byrne  
8,512,065 B2 8/2013 Byrne et al.  
D689,825 S \* 9/2013 Wenji ..... D13/162  
D692,825 S 11/2013 Izen et al.  
D692,830 S \* 11/2013 Junko ..... D13/139.3  
D693,305 S \* 11/2013 Kuo ..... D13/137.2  
8,585,419 B2 11/2013 Byrne  
D694,706 S \* 12/2013 Kuo ..... D13/108  
D695,693 S 12/2013 Lee et al.  
8,680,709 B2 3/2014 Byrne et al.  
D702,635 S \* 4/2014 Haapaniemi ..... D13/110  
D702,640 S 4/2014 Restrepo et al.  
D703,139 S \* 4/2014 Dodal ..... D13/139.1  
8,696,371 B2 4/2014 Byrne  
8,736,106 B2 5/2014 Byrne et al.  
8,758,031 B2 6/2014 Cheng et al.  
D708,146 S 7/2014 Soni  
D709,463 S \* 7/2014 Junko ..... D13/169  
8,790,126 B2 7/2014 Byrne  
8,801,445 B2 8/2014 Byrne  
D715,225 S \* 10/2014 Mininger ..... D13/139.4  
D719,096 S \* 12/2014 DeCosta ..... D13/137.2  
D719,512 S \* 12/2014 Roy ..... D13/139.6  
D719,915 S \* 12/2014 McMahan ..... D13/139.1  
D720,295 S \* 12/2014 Dodal ..... D13/139.1  
D722,562 S \* 2/2015 Restrepo ..... D13/139.1  
D727,853 S \* 4/2015 Clayton ..... D13/156  
D730,835 S \* 6/2015 Murphy ..... D13/139.1  
D731,432 S \* 6/2015 Murphy ..... D13/139.1  
D732,719 S \* 6/2015 Mozdzer ..... D13/139.1  
D733,043 S \* 6/2015 Hasbrook ..... D13/103  
9,048,598 B2 6/2015 Byrne  
D734,259 S \* 7/2015 Cephress ..... D13/110  
D740,291 S \* 10/2015 Turksu ..... D14/433  
9,166,308 B2 10/2015 Byrne  
D742,825 S \* 11/2015 Tsou ..... D13/108  
D744,950 S \* 12/2015 Murphy ..... D13/139.1  
D744,951 S \* 12/2015 Oosterman ..... D13/139.1  
D744,952 S \* 12/2015 Ni ..... D13/139.3  
9,225,101 B2 12/2015 Byrne  
D751,038 S \* 3/2016 Lin ..... D13/137.2  
D751,501 S 3/2016 Riner  
D751,502 S 3/2016 Riner  
D754,074 S \* 4/2016 DeCosta ..... D13/139.3  
D755,128 S \* 5/2016 Page ..... D13/139.4  
D755,129 S 5/2016 Page et al.  
D755,171 S 5/2016 Riner  
D755,717 S \* 5/2016 Riner ..... D13/108  
D756,915 S \* 5/2016 Yang ..... D13/108  
D761,205 S 7/2016 Zhu et al.  
D762,172 S \* 7/2016 Pignotti ..... D13/108  
9,386,718 B2 \* 7/2016 Kusumi ..... H05K 7/14  
D763,196 S \* 8/2016 DeCosta ..... D13/152  
D765,033 S \* 8/2016 Oosterman ..... D13/139.1  
D773,721 S 12/2016 Hrach  
D775,076 S 12/2016 Tsai et al.  
D775,077 S \* 12/2016 Xu ..... D13/137.2  
D776,113 S \* 1/2017 Bierach ..... D14/383  
D778,853 S 2/2017 Skowranek et al.  
D790,458 S \* 6/2017 He ..... D13/108  
D790,464 S \* 6/2017 He ..... D13/110  
D793,339 S \* 8/2017 Dicks ..... D13/139.1  
D793,343 S \* 8/2017 Byrne ..... D13/152  
D794,575 S \* 8/2017 Mortun ..... D13/139.1  
D799,423 S \* 10/2017 Eliyahu ..... D13/108  
D799,934 S \* 10/2017 Poulheim ..... D8/353  
D801,276 S \* 10/2017 Lin ..... D13/139.7  
D804,429 S \* 12/2017 Baldwin ..... D13/156  
D805,479 S \* 12/2017 Lin ..... D13/137.2  
D808,339 S \* 1/2018 Page ..... D13/139.4  
D812,009 S \* 3/2018 Hayes ..... D13/139.4  
D812,054 S \* 3/2018 Bierach ..... D14/383  
D813,818 S \* 3/2018 Ni ..... D13/137.2  
D814,420 S \* 4/2018 Chen ..... D13/137.2  
2008/0214033 A1 9/2008 Byrne  
2012/0127637 A1 5/2012 Byrne et al.  
2014/0179132 A1 6/2014 Byrne  
2014/0292289 A1 10/2014 Gelonese

\* cited by examiner



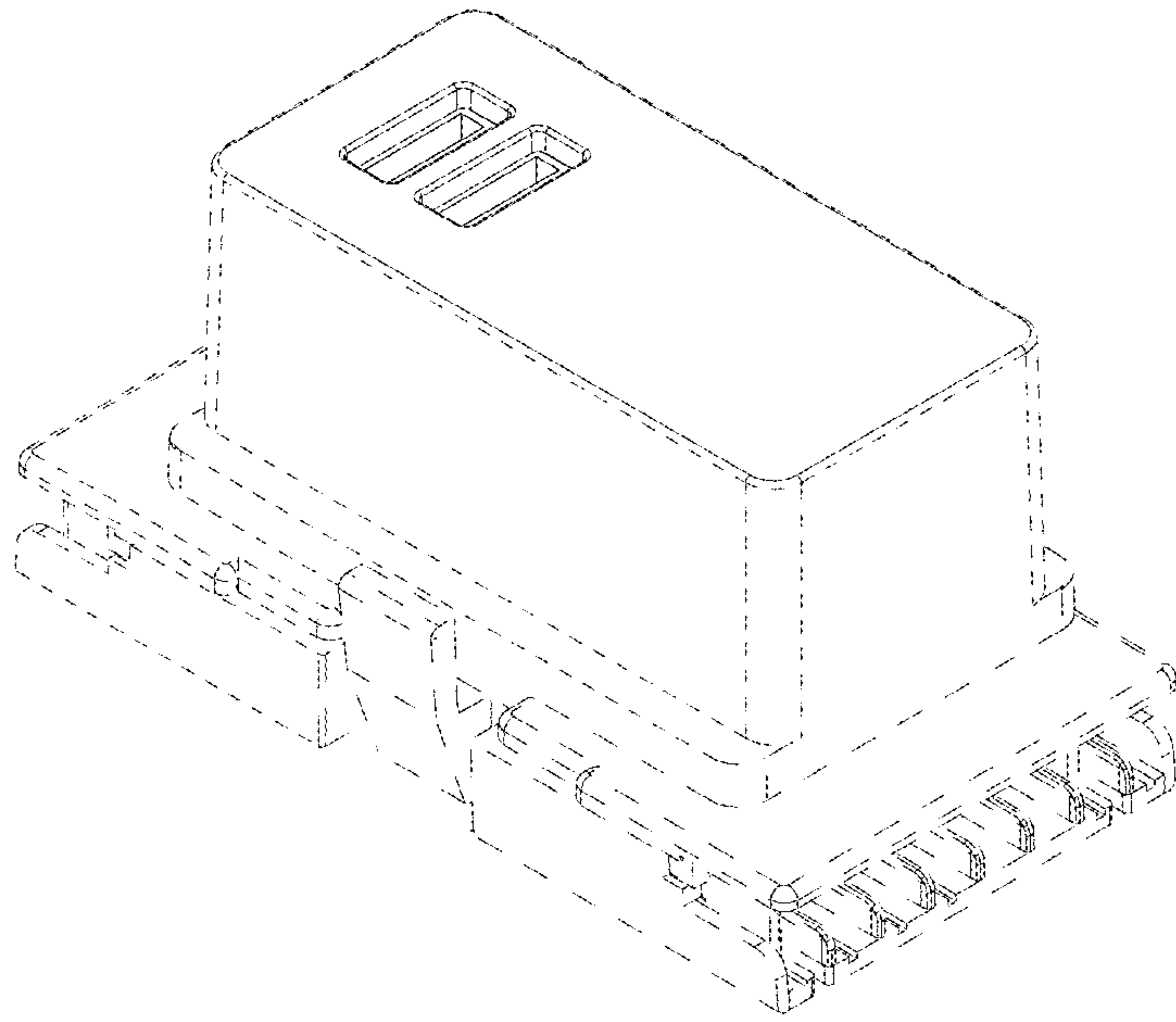


Fig. 1

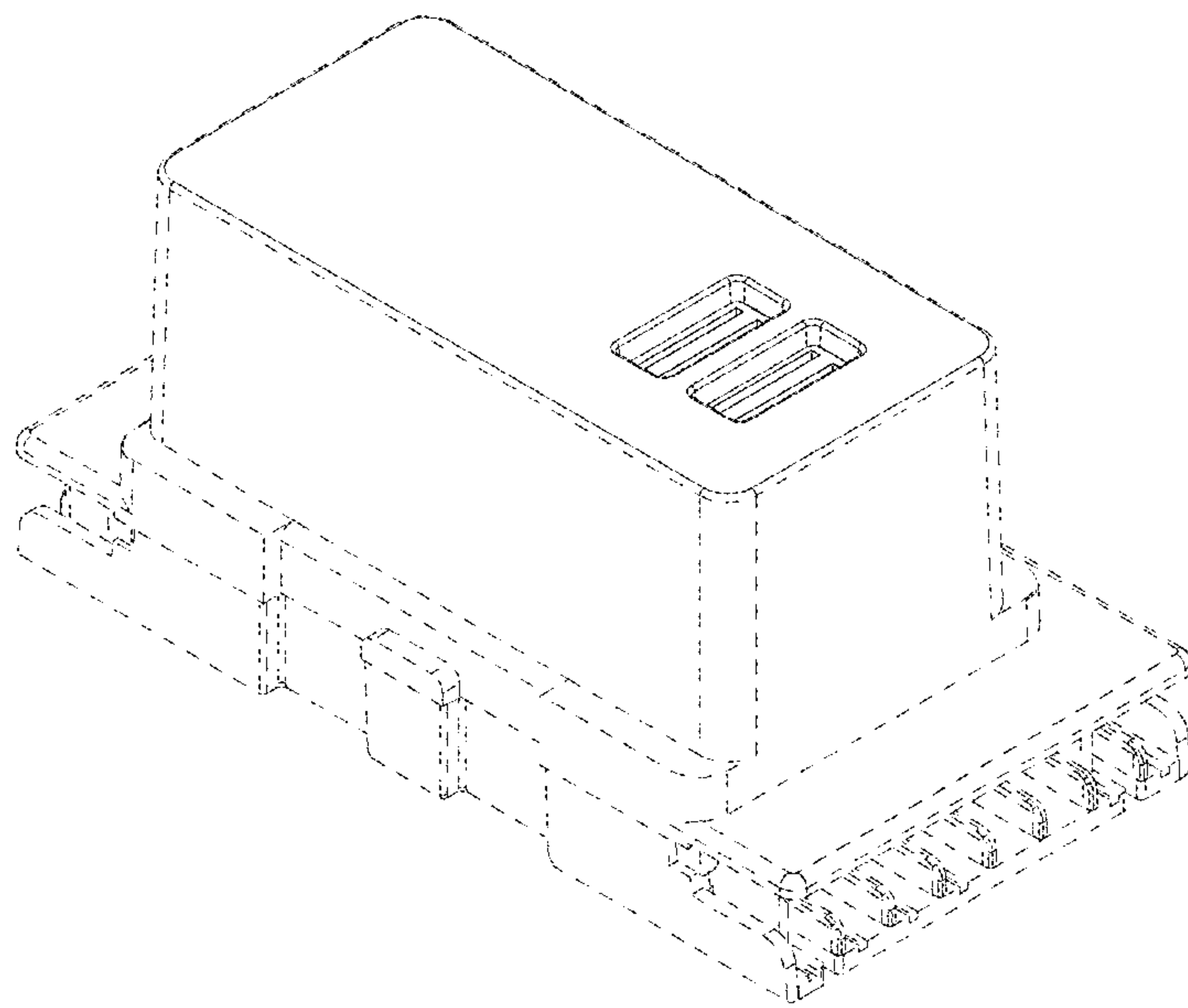


Fig. 2

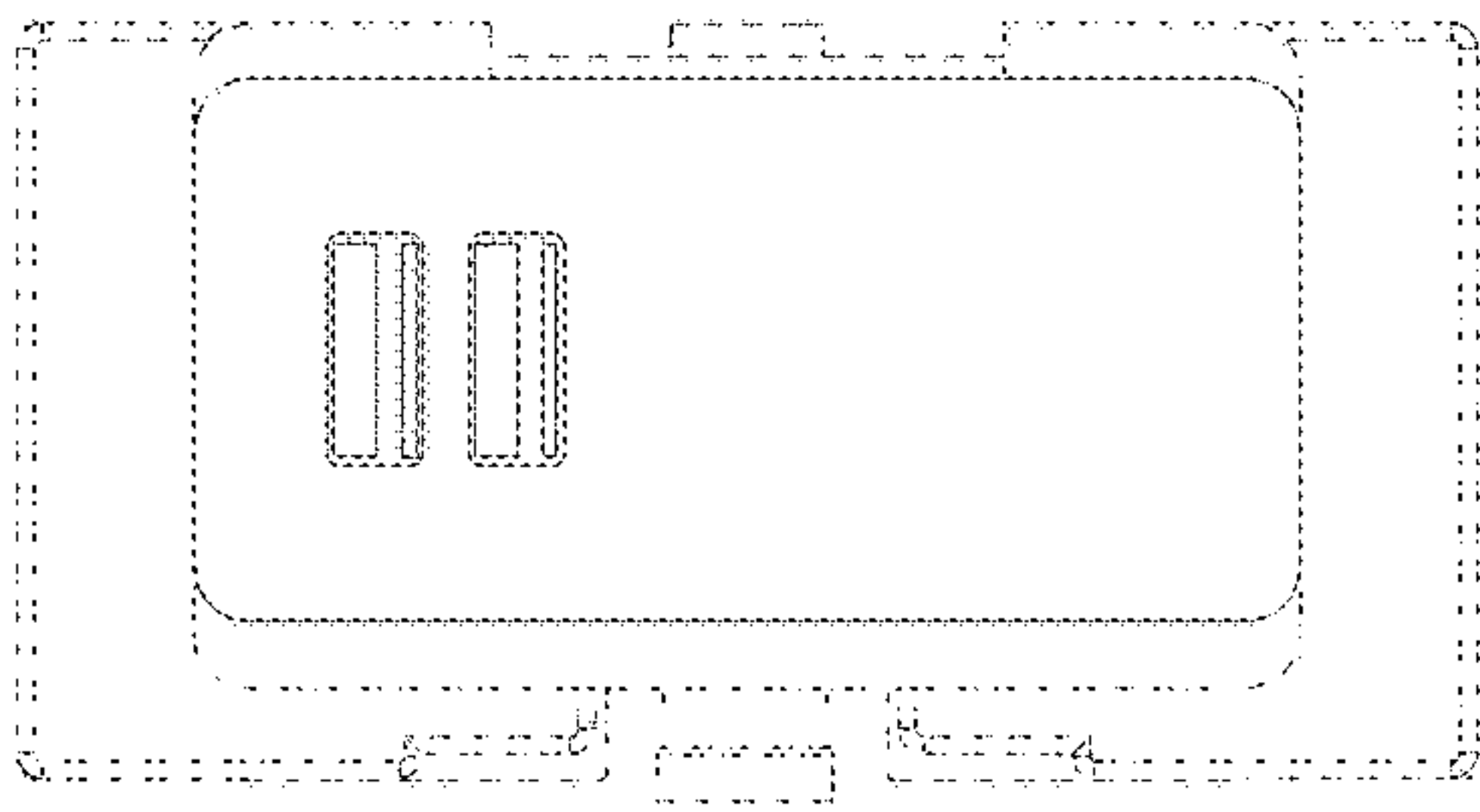


Fig. 3

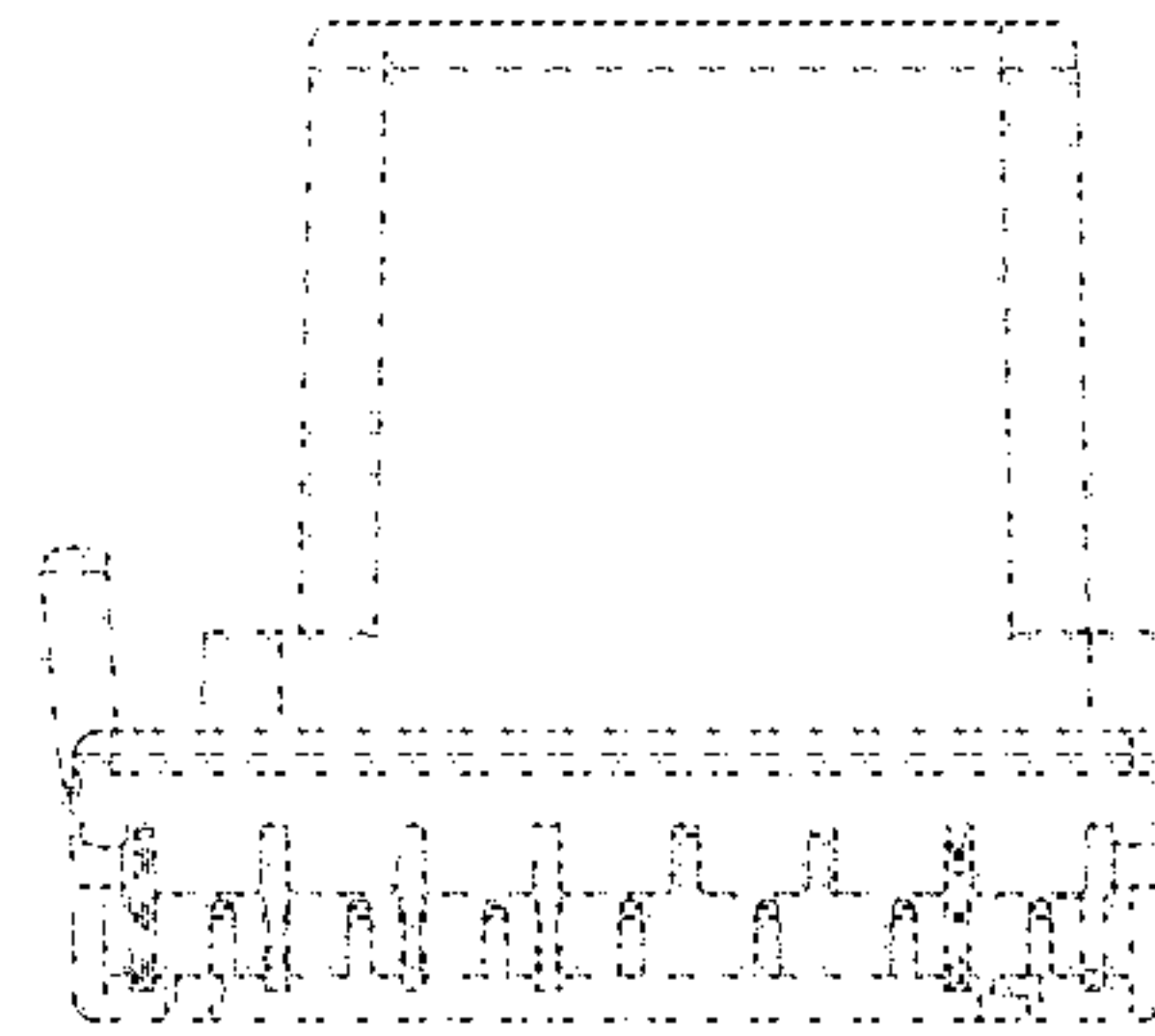


Fig. 4

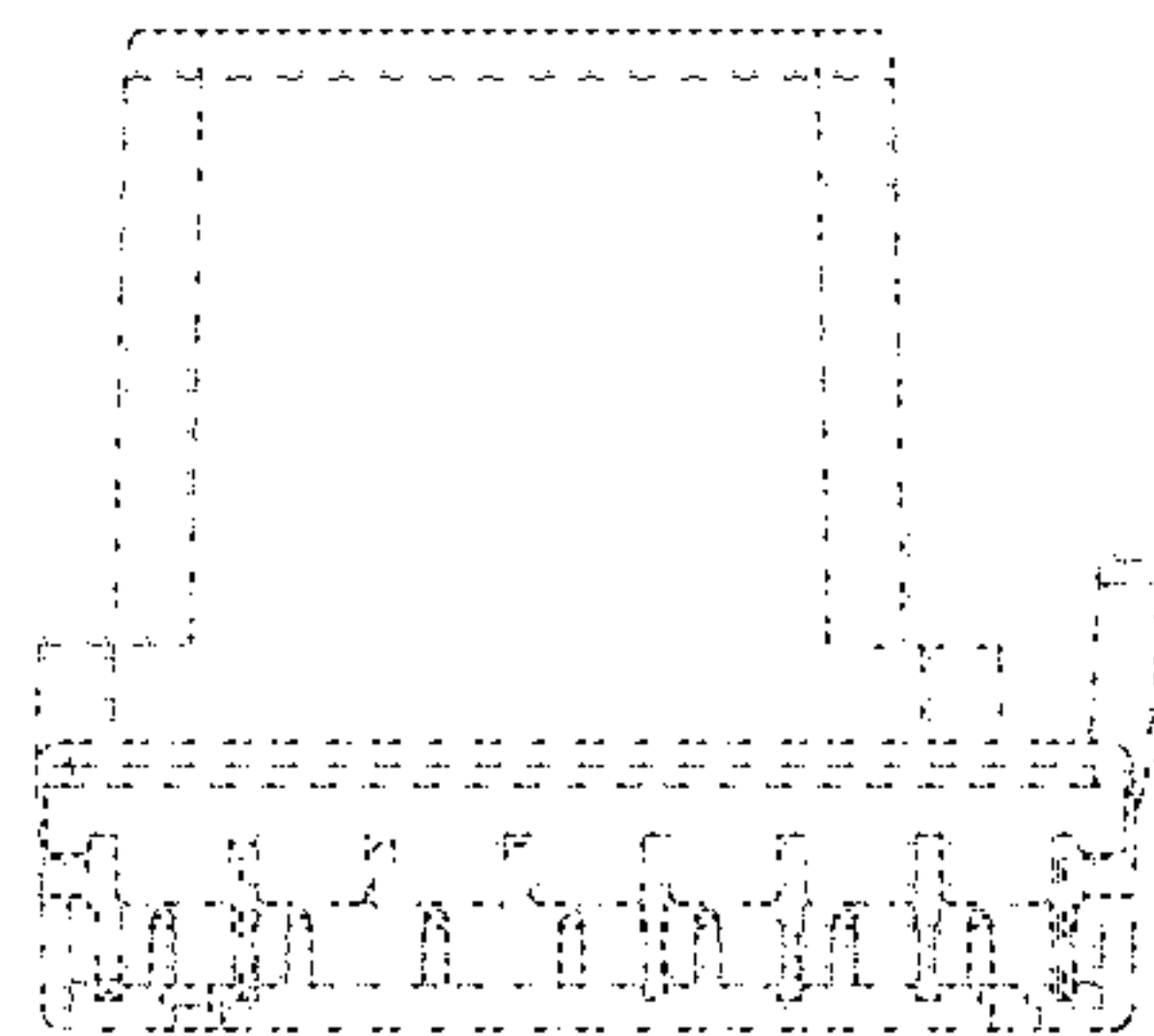


Fig. 5

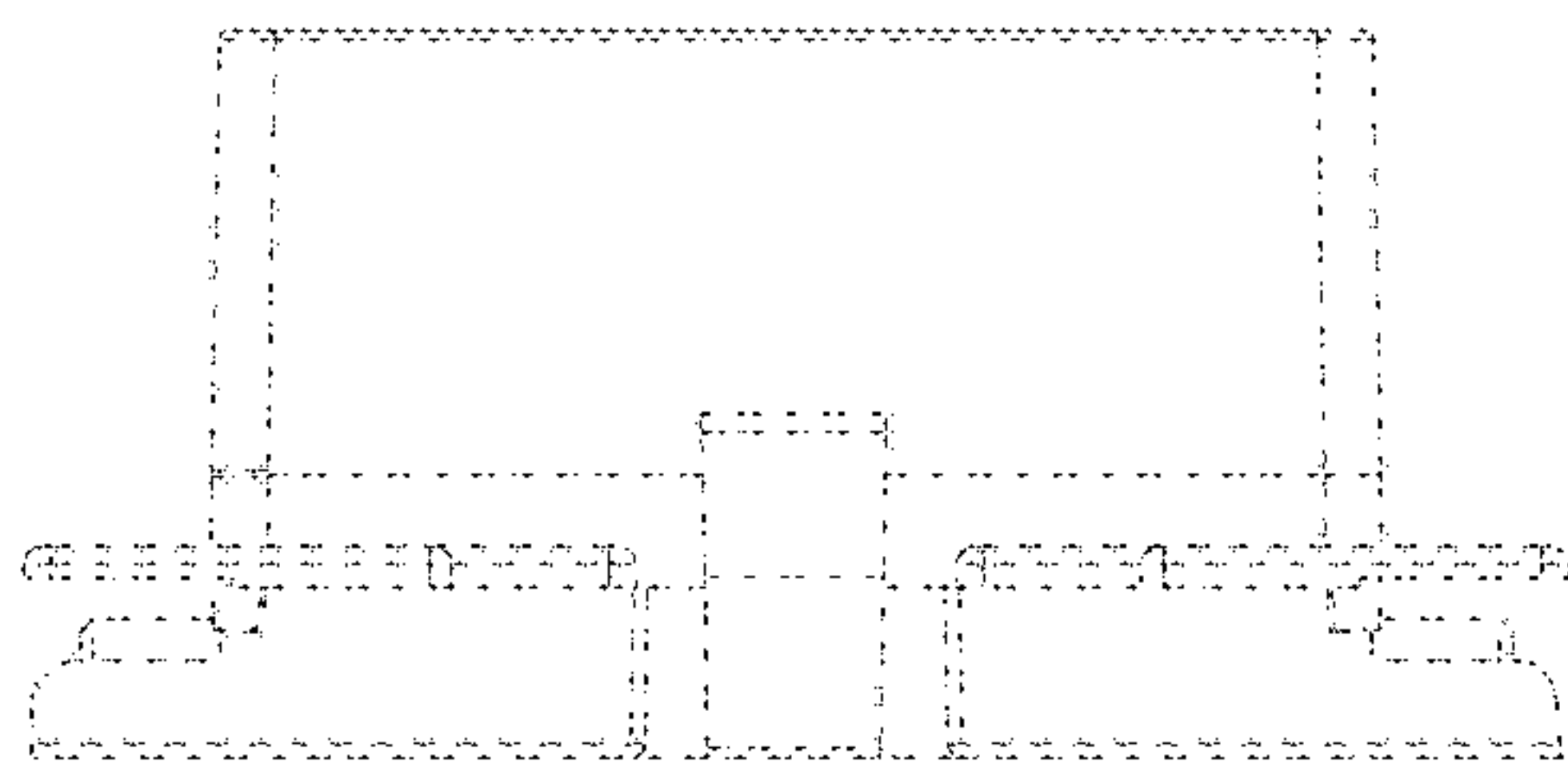


Fig. 6

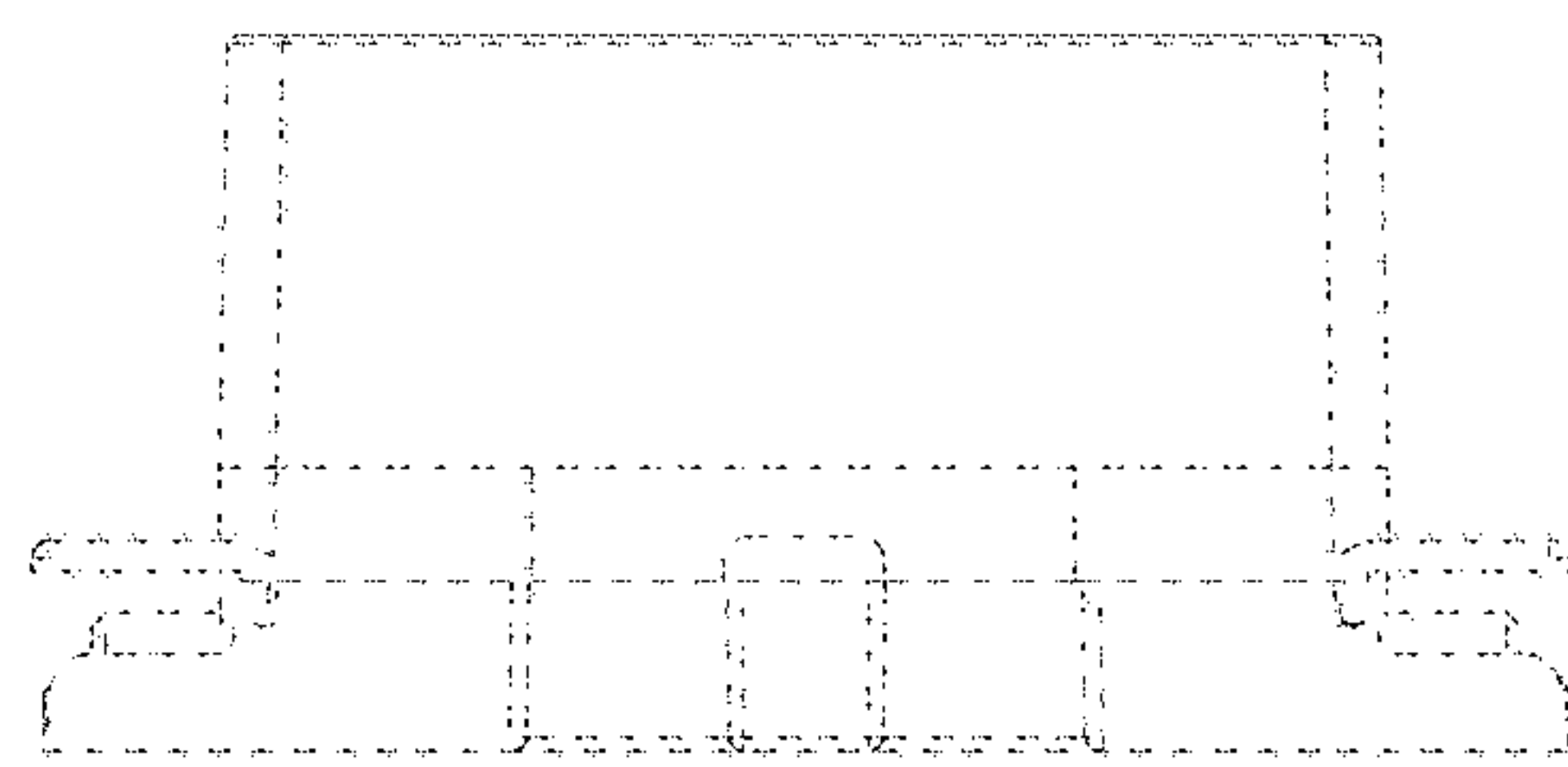


Fig. 7