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(12) **United States Design Patent** (10) **Patent No.:** **US D780,112 S**
Lin (45) **Date of Patent:** **** Feb. 28, 2017**

(54) **RECHARGEABLE BATTERY DEVICE**
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(73) Assignee: **LIMEFUEL, LLC**, Boulder, CO (US)
(**) Term: **14 Years**
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(52) **U.S. Cl.**
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(58) **Field of Classification Search**
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429/96-100, 163, 176
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

D311,373 S 10/1990 Morisse et al.
D320,212 S 9/1991 Someya
D357,896 S * 5/1995 Berry D13/103
D363,056 S 10/1995 Vinciarelli et al.
D375,933 S * 11/1996 Kao D13/103
D382,536 S 8/1997 Amero, Jr.
D409,136 S * 5/1999 Sumita D13/103
D409,623 S 5/1999 Bianco
D419,131 S * 1/2000 Andrews D13/103
D438,169 S * 2/2001 Minagawa D13/103

6,394,343 B1 5/2002 Berg et al.
6,406,811 B1 6/2002 Hall et al.
6,499,190 B2 12/2002 Ruiz Rodriguez
D468,720 S 1/2003 Birkholz
6,617,063 B1 * 9/2003 Ohnishi G06F 1/1616
429/122
D496,906 S * 10/2004 Vinciarelli D13/110
D506,438 S 6/2005 Vinciarelli et al.
D509,472 S 9/2005 Vinciarelli et al.
D517,476 S 3/2006 Green
D524,242 S 7/2006 Adams et al.
D531,134 S 10/2006 Nielsen et al.
D580,953 S 11/2008 Andre et al.
D593,489 S 6/2009 Yang

(Continued)

OTHER PUBLICATIONS

U.S. Appl. No. 29/479,883, filed Jan. 21, 2014.

(Continued)

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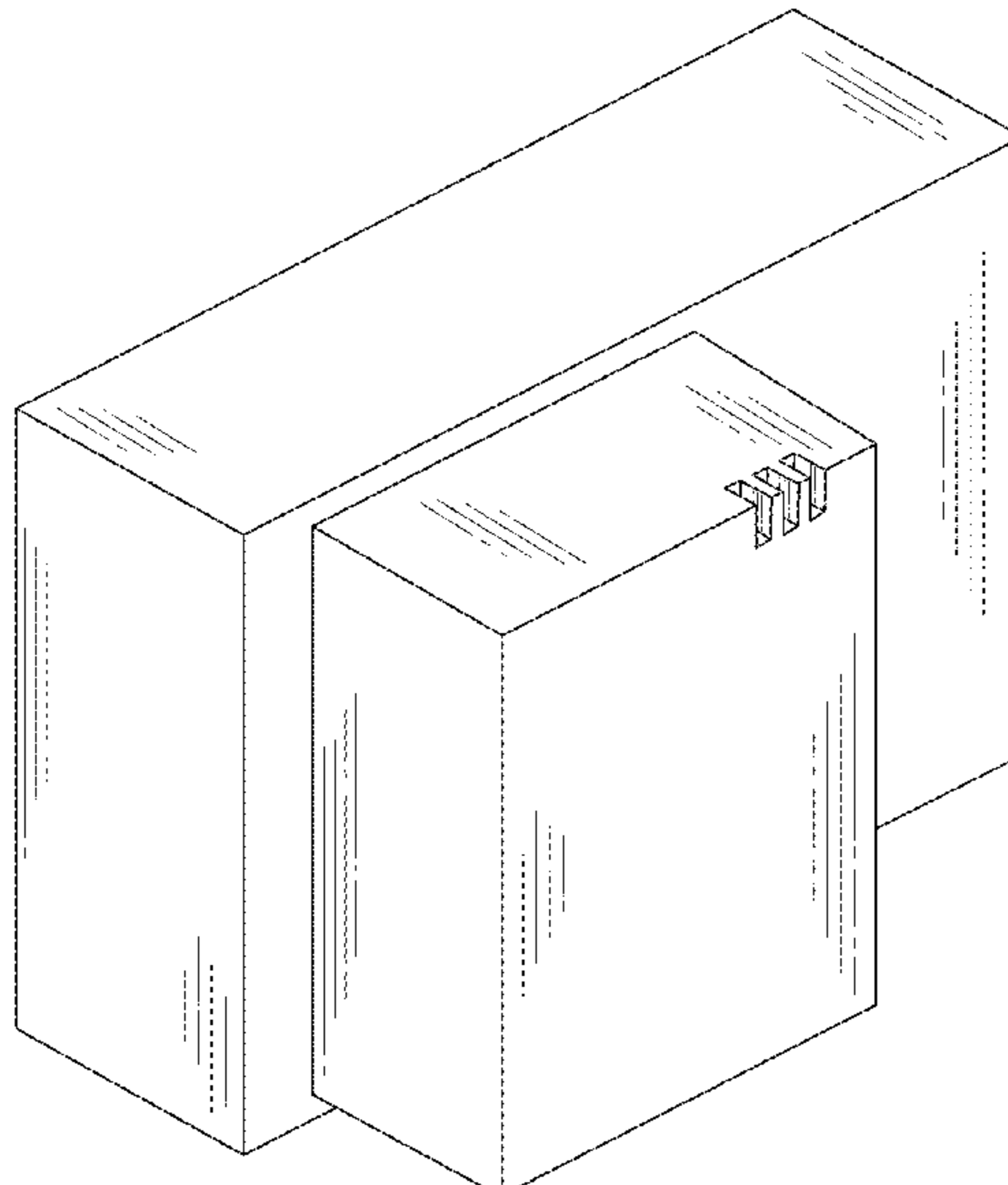
(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a front perspective view of a rechargeable battery device;
FIG. 2 is a rear perspective view thereof;
FIG. 3 is a rear elevation view thereof;
FIG. 4 is a front elevation view thereof;
FIG. 5 is a right elevation view thereof;
FIG. 6 is a left elevation view thereof;
FIG. 7 is a bottom plan view thereof;
FIG. 8 is a top plan view thereof;
FIG. 9 is a front perspective view thereof; and,
FIG. 10 is a rear perspective view thereof.

1 Claim, 10 Drawing Sheets



(56)

References Cited

OTHER PUBLICATIONS

U.S. PATENT DOCUMENTS

- | | | | |
|-----------------|---------|--------------------|------------------------|
| D611,407 S | 3/2010 | Webb | |
| D629,365 S | 12/2010 | Garcia De Vicuna | |
| D662,044 S | 6/2012 | Lemelman et al. | |
| D669,427 S | 10/2012 | Ignor et al. | |
| 8,361,645 B2 * | 1/2013 | Kim | H01M 2/0404 429/121 |
| D678,187 S * | 3/2013 | Huang | D13/103 |
| D682,778 S | 5/2013 | Baumgartner et al. | |
| D684,926 S | 6/2013 | Murchison | |
| D685,319 S | 7/2013 | Ignor et al. | |
| D689,019 S * | 9/2013 | Sato | D13/103 |
| D700,139 S * | 2/2014 | Chan | D13/103 |
| 8,658,294 B2 * | 2/2014 | Jang | H01M 2/1061 429/61 |
| D705,782 S | 5/2014 | McParland et al. | |
| D708,571 S * | 7/2014 | Ji | D13/103 |
| D709,440 S * | 7/2014 | Kwon | D13/103 |
| D709,441 S * | 7/2014 | Kwon | D13/103 |
| D709,442 S * | 7/2014 | Kwon | D13/103 |
| D709,443 S * | 7/2014 | Kwon | D13/103 |
| D711,311 S | 8/2014 | Corbin et al. | |
| D712,346 S * | 9/2014 | Kwon | D13/103 |
| D712,825 S * | 9/2014 | Kwon | D13/103 |
| D715,219 S | 10/2014 | Cepress et al. | |
| D716,221 S * | 10/2014 | Kwon | D13/103 |
| D716,222 S * | 10/2014 | Kwon | D13/103 |
| D716,722 S * | 11/2014 | Kwon | D13/103 |
| D719,087 S | 12/2014 | Bataillou et al. | |
| D724,019 S * | 3/2015 | Kwon | D13/103 |
| D724,020 S | 3/2015 | Kwon et al. | |
| D724,528 S | 3/2015 | Kwon et al. | |
| D724,529 S * | 3/2015 | Kwon | D13/103 |
| D724,530 S * | 3/2015 | Kwon | D13/103 |
| D724,533 S | 3/2015 | Kwon et al. | |
| D725,590 S | 3/2015 | Clyne et al. | |
| D727,254 S * | 4/2015 | Kinoshita | D13/103 |
| 8,999,536 B2 * | 4/2015 | Kwag | H01M 2/204 429/7 |
| D729,727 S * | 5/2015 | Lin | D13/103 |
| D731,419 S | 6/2015 | Kao et al. | |
| D733,051 S | 6/2015 | Wang | |
| D742,312 S | 11/2015 | Gupta et al. | |
| D743,329 S | 11/2015 | Aiken et al. | |
| D743,333 S | 11/2015 | Nomi | |
| 9,214,651 B1 | 12/2015 | Ahn et al. | |
| 9,214,671 B2 | 12/2015 | Saruwatari et al. | |
| 9,219,257 B2 | 12/2015 | Yamaguchi et al. | |
| 9,224,516 B2 | 12/2015 | Nelson et al. | |
| 9,231,236 B2 | 1/2016 | Koh | |
| 9,231,238 B2 | 1/2016 | Noda et al. | |
| 9,263,744 B2 | 2/2016 | Yamamoto et al. | |
| D751,499 S * | 3/2016 | Phillips | D13/103 |
| D751,981 S * | 3/2016 | Lin | D13/103 |
| D751,982 S * | 3/2016 | Lin | D13/103 |
| D751,983 S * | 3/2016 | Lin | D13/103 |
| D751,984 S * | 3/2016 | Lin | D13/103 |
| D752,509 S * | 3/2016 | Lin | D13/103 |
| D752,510 S * | 3/2016 | Lin | D13/103 |
| 2009/0098443 A1 | 4/2009 | Yamamoto et al. | |
| 2011/0117418 A1 | 5/2011 | Meintschel | |
| 2013/0202932 A1 | 8/2013 | Song et al. | |
| 2014/0072850 A1 | 3/2014 | Kwon | |
| 2015/0288021 A1 | 10/2015 | Kwon | |
| 2015/0318579 A1 | 11/2015 | Kwon | |
| 2015/0380715 A1 | 12/2015 | Ahn | |
| 2016/0013680 A1 | 1/2016 | Liang | |
| 2016/0036012 A1 | 2/2016 | Kreitman | |
| 2016/0072154 A1 | 3/2016 | Kim | |
| 2016/0079635 A1 | 3/2016 | Niwa | |
| 2016/0093837 A1 | 3/2016 | Bushnell | |
| 2016/0104919 A1 | 4/2016 | Arishima | |
- U.S. Appl. No. 29/491,238, filed May 19, 2014.
U.S. Appl. No. 29/502,977, filed Sep. 22, 2014.
U.S. Appl. No. 29/502,983, filed Sep. 22, 2014.
U.S. Appl. No. 29/502,985, filed Sep. 22, 2014.
U.S. Appl. No. 29/502,986, filed Sep. 22, 2014.
U.S. Appl. No. 29/502,988, filed Sep. 22, 2014.
U.S. Appl. No. 29/502,990, filed Sep. 22, 2014.
U.S. Appl. No. 29/514,954, filed Jan. 19, 2015.
U.S. Appl. No. 29/517,938, filed Feb. 18, 2015.
U.S. Appl. No. 29/518,222, filed Feb. 20, 2015.
U.S. Appl. No. 29/548,448, filed Dec. 14, 2015, Lin.
U.S. Appl. No. 29/548,450, filed Dec. 14, 2015, Lin.
U.S. Appl. No. 29/548,453, filed Dec. 14, 2015, Lin.
U.S. Appl. No. 29/548,457, filed Dec. 14, 2015, Lin.
U.S. Appl. No. 29/548,458, filed Dec. 14, 2015, Lin.
U.S. Appl. No. 29/548,459, filed Dec. 14, 2015, Lin.
U.S. Appl. No. 29/548,460, filed Dec. 14, 2015, Lin.
U.S. Appl. No. 29/548,461, filed Dec. 14, 2015, Lin.
U.S. Appl. No. 29/548,463, filed Dec. 14, 2015, Lin.
Notice of Allowance for U.S. Appl. No. 29/502,977, mailed Nov. 2, 2015 11 pages.
Notice of Allowance for U.S. Appl. No. 29/502,983, mailed Nov. 13, 2015 8 pages.
Notice of Allowance for U.S. Appl. No. 29/502,985, mailed Nov. 10, 2015 11 pages.
Notice of Allowance for U.S. Appl. No. 29/502,986, mailed Nov. 4, 2015 12 pages.
Notice of Allowance for U.S. Appl. No. 29/502,988, mailed Nov. 18, 2015 12 pages.
Notice of Allowance for U.S. Appl. No. 29/502,990, mailed Nov. 2, 2015 11 pages.
U.S. Appl. No. 29/548,448, filed Dec. 14, 2015.
U.S. Appl. No. 29/548,450, filed Dec. 14, 2015.
U.S. Appl. No. 29/548,453, filed Dec. 14, 2015.
U.S. Appl. No. 29/548,457, filed Dec. 14, 2015.
U.S. Appl. No. 29/548,458, filed Dec. 14, 2015.
U.S. Appl. No. 29/548,459, filed Dec. 14, 2015.
U.S. Appl. No. 29/548,460, filed Dec. 14, 2015.
U.S. Appl. No. 29/548,461, filed Dec. 14, 2015.
U.S. Appl. No. 29/548,463, filed Dec. 14, 2015.
Notice of Allowance for U.S. Appl. No. 29/548,448, mailed Jun. 27, 2016 9 pages.
Notice of Allowance for U.S. Appl. No. 29/548,450, mailed Jun. 28, 2016 9 pages.
Notice of Allowance for U.S. Appl. No. 29/548,453, mailed Jun. 17, 2016 9 pages.
Notice of Allowance for U.S. Appl. No. 29/548,457, mailed Jun. 16, 2016 9 pages.
Notice of Allowance for U.S. Appl. No. 29/548,458, mailed Jun. 28, 2016 9 pages.
Notice of Allowance for U.S. Appl. No. 29/548,459, mailed Jun. 20, 2016 9 pages.
Notice of Allowance for U.S. Appl. No. 29/548,461, mailed Jun. 20, 2016 9 pages.
Notice of Allowance for U.S. Appl. No. 29/548,460, mailed Jun. 27, 2016 9 pages.
Notice of Allowance for U.S. Appl. No. 29/548,463, mailed Jun. 20, 2016 9 pages.
U.S. Appl. No. 29/479,883, filed Jan. 21, 2014, Lin.
U.S. Appl. No. 29/491,238, filed May 19, 2014, Lin.
U.S. Appl. No. 29/502,977, filed Sep. 22, 2014, Lin.
U.S. Appl. No. 29/502,983, filed Sep. 22, 2014, Lin.
U.S. Appl. No. 29/502,985, filed Sep. 22, 2014, Lin.
U.S. Appl. No. 29/502,986, filed Sep. 22, 2014, Lin.
U.S. Appl. No. 29/502,988, filed Sep. 22, 2014, Lin.
U.S. Appl. No. 29/502,990, filed Sep. 22, 2014, Lin.
U.S. Appl. No. 29/514,954, filed Jan. 19, 2015, Lin.
U.S. Appl. No. 29/517,938, filed Feb. 18, 2015, Lin.
U.S. Appl. No. 29/518,222, filed Feb. 20, 2015, Lin.
Notice of Allowance for U.S. Appl. No. 29/491,238, mailed Jan. 5, 2015, 8 pages.
Notice of Allowance for U.S. Appl. No. 29/479,883, mailed Jan. 21, 2015 6 pages.

* cited by examiner

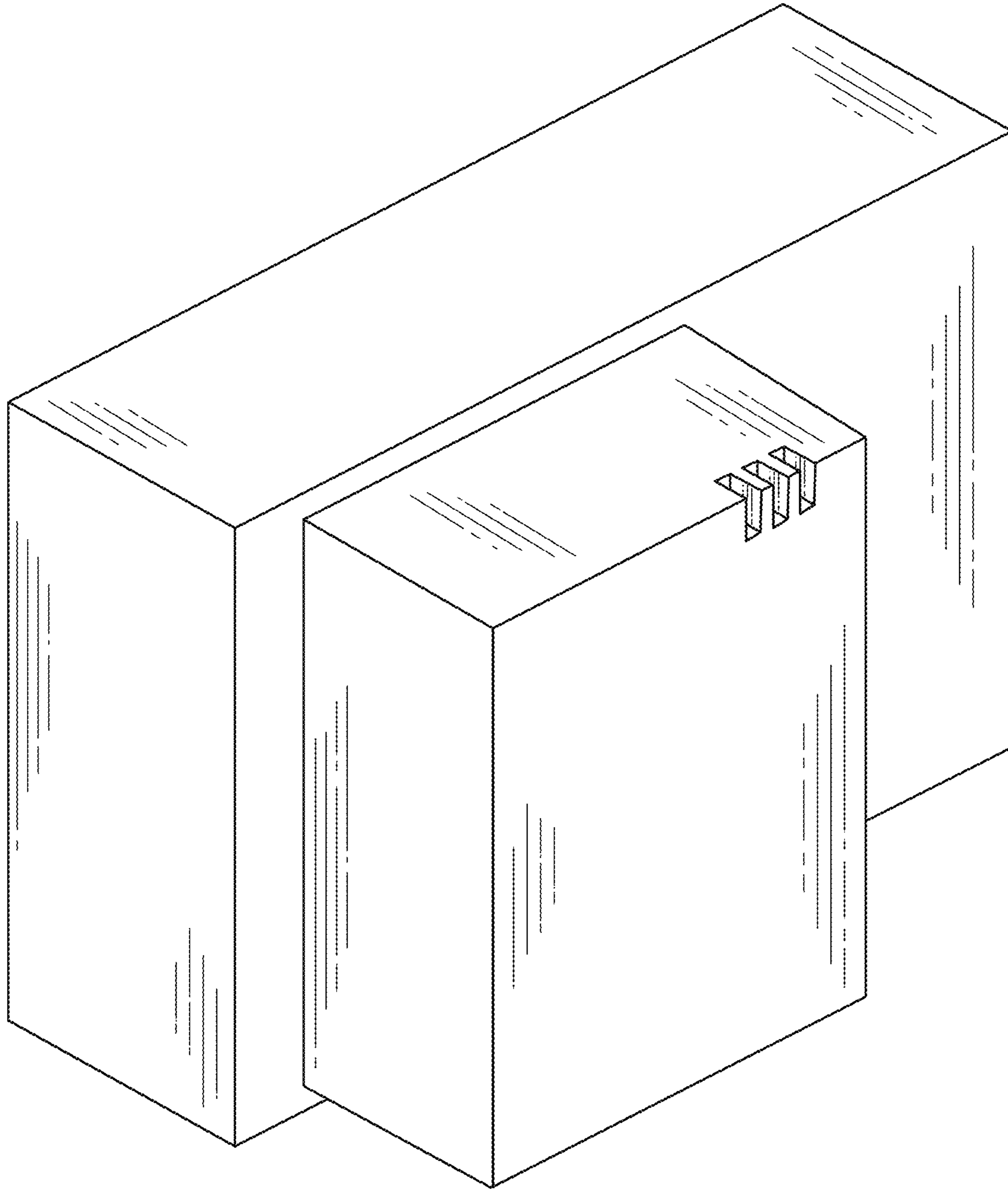


FIG. 1

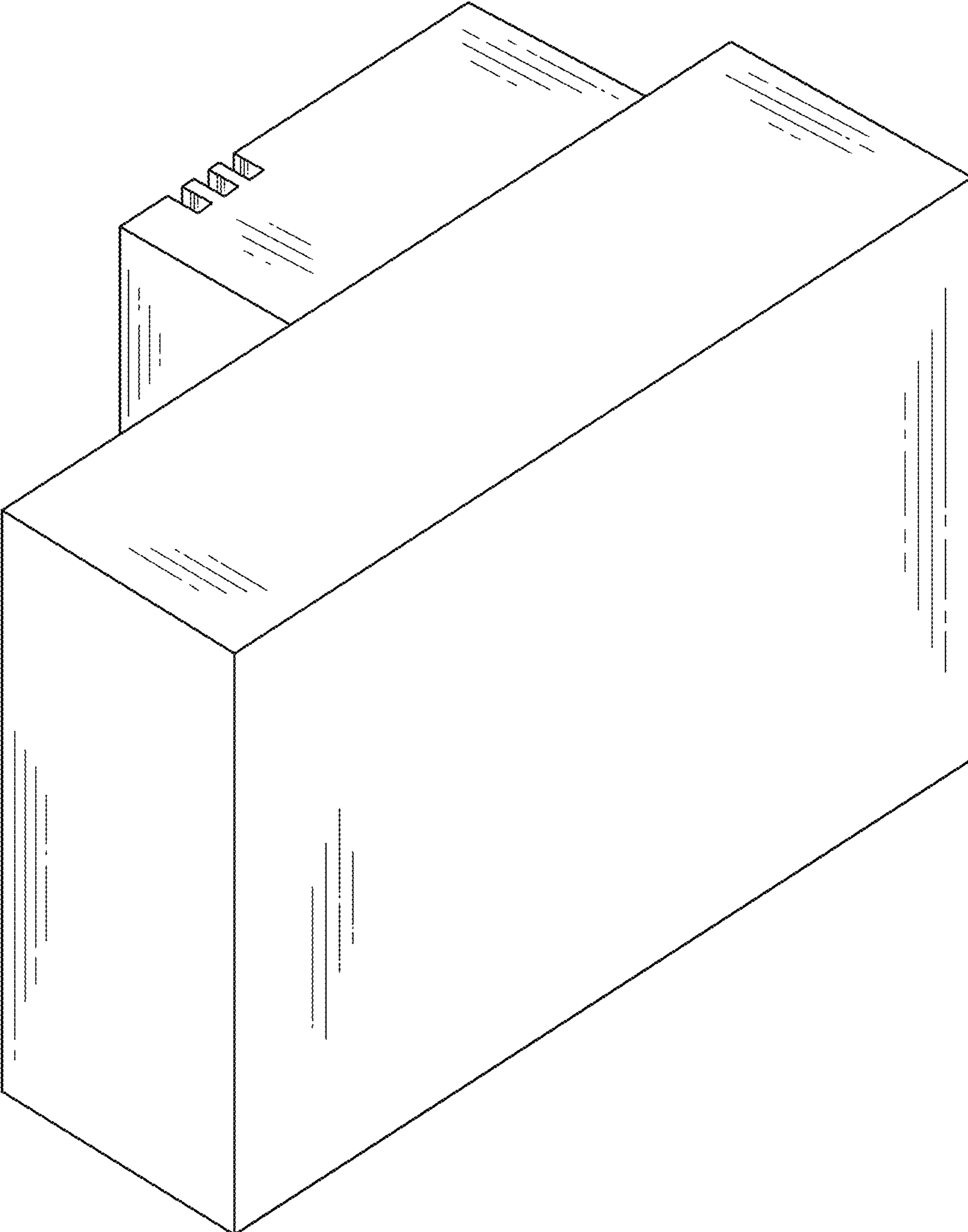


FIG. 2



FIG. 3

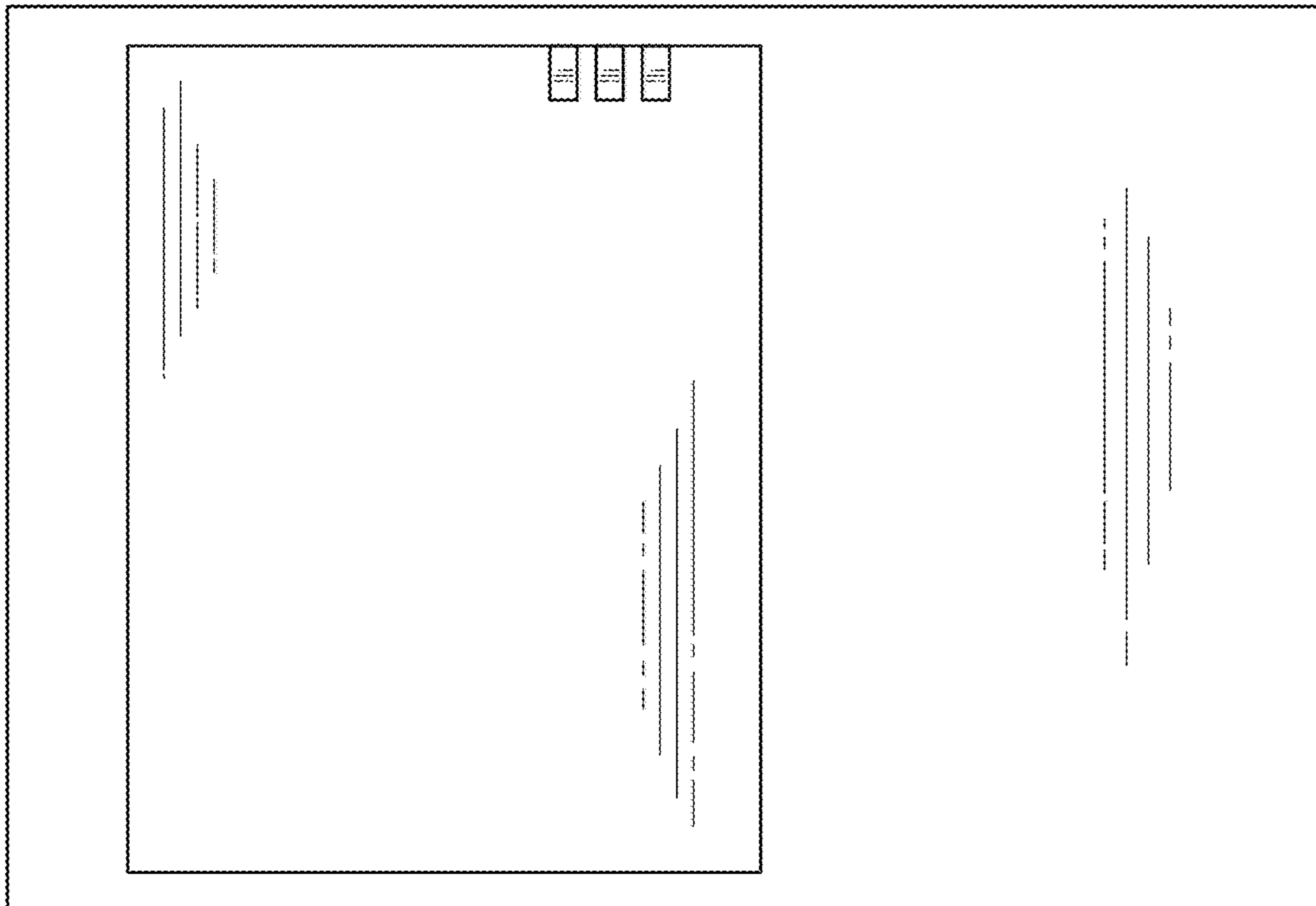


FIG. 4

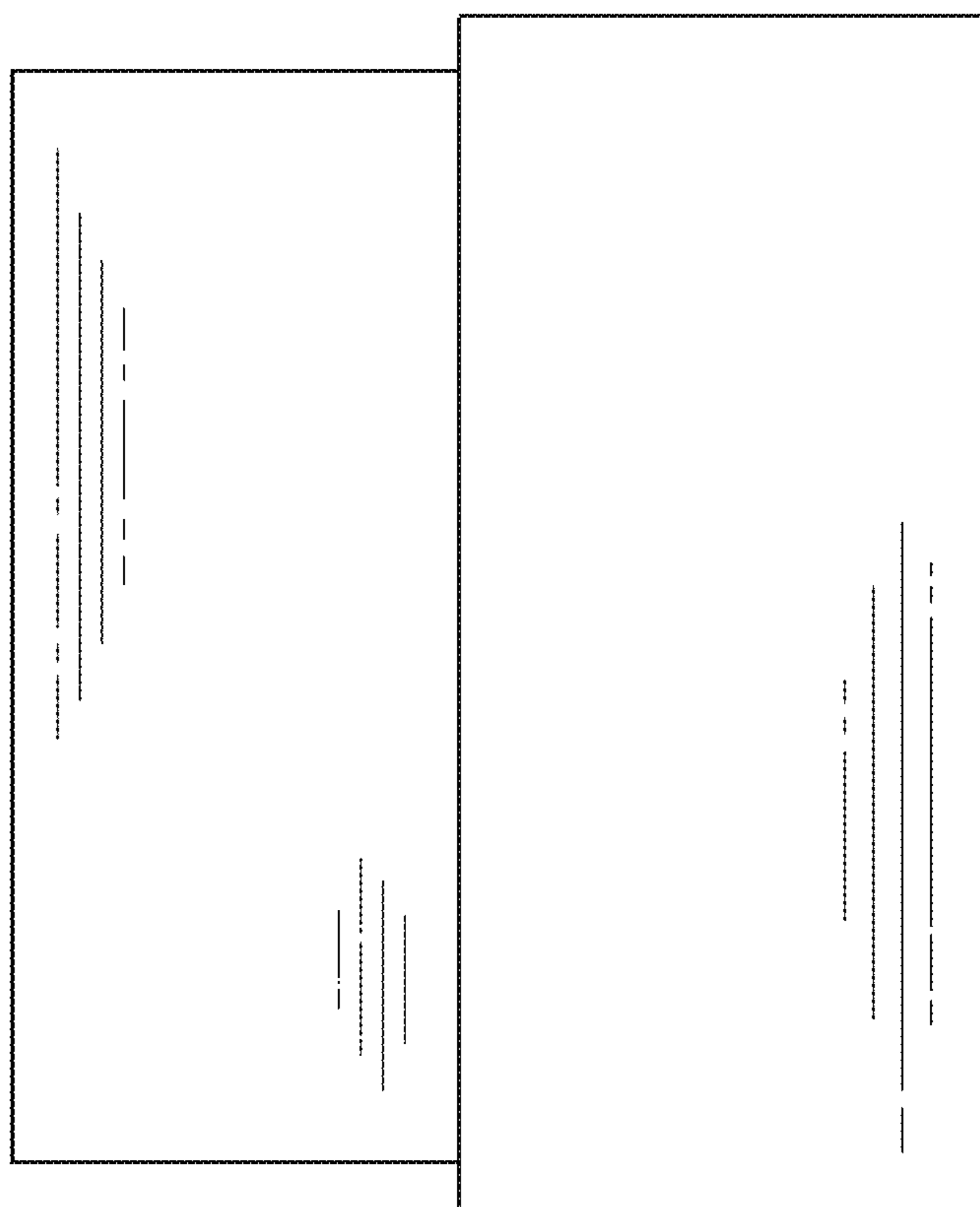


FIG. 5

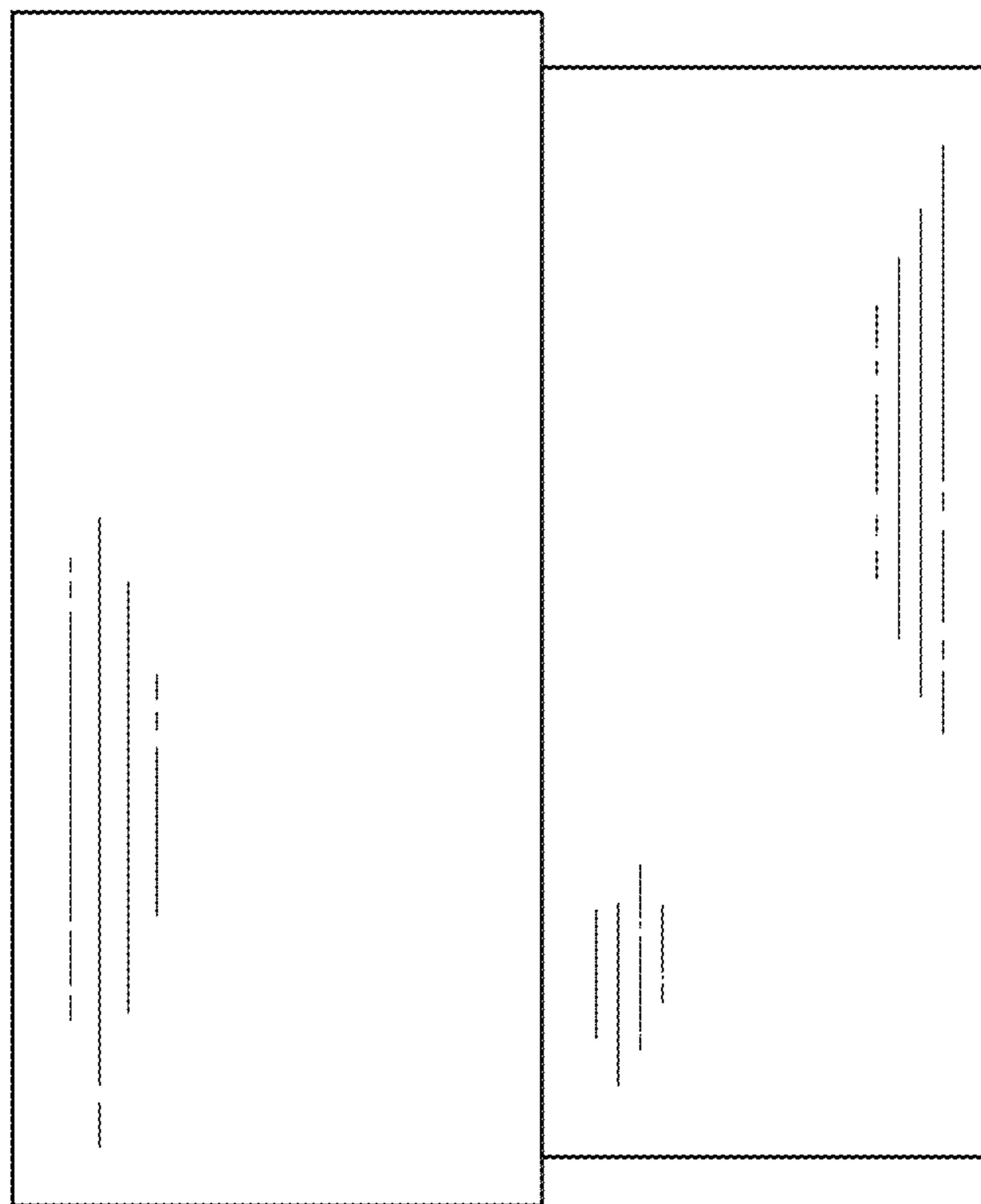


FIG. 6

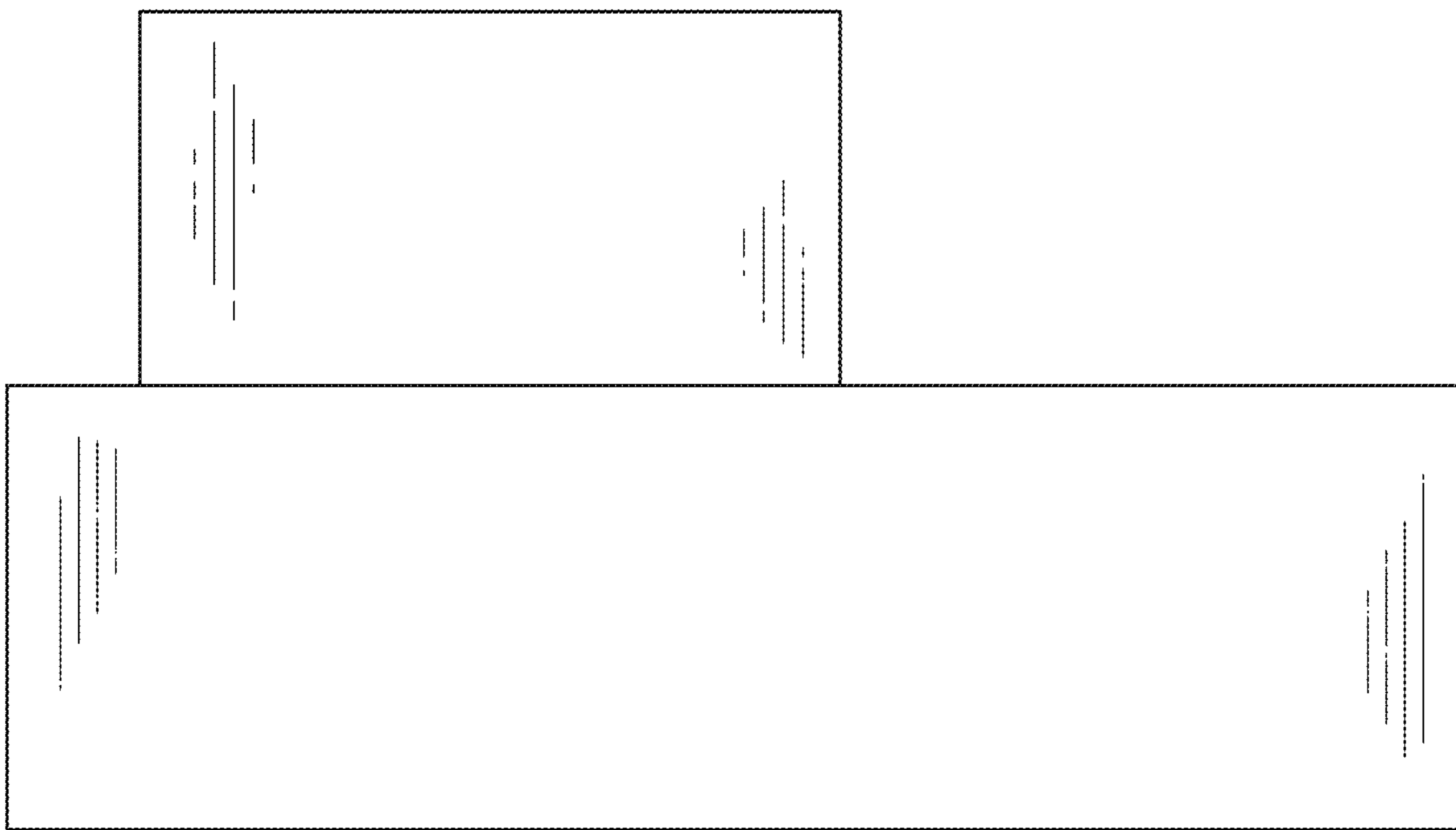


FIG. 7

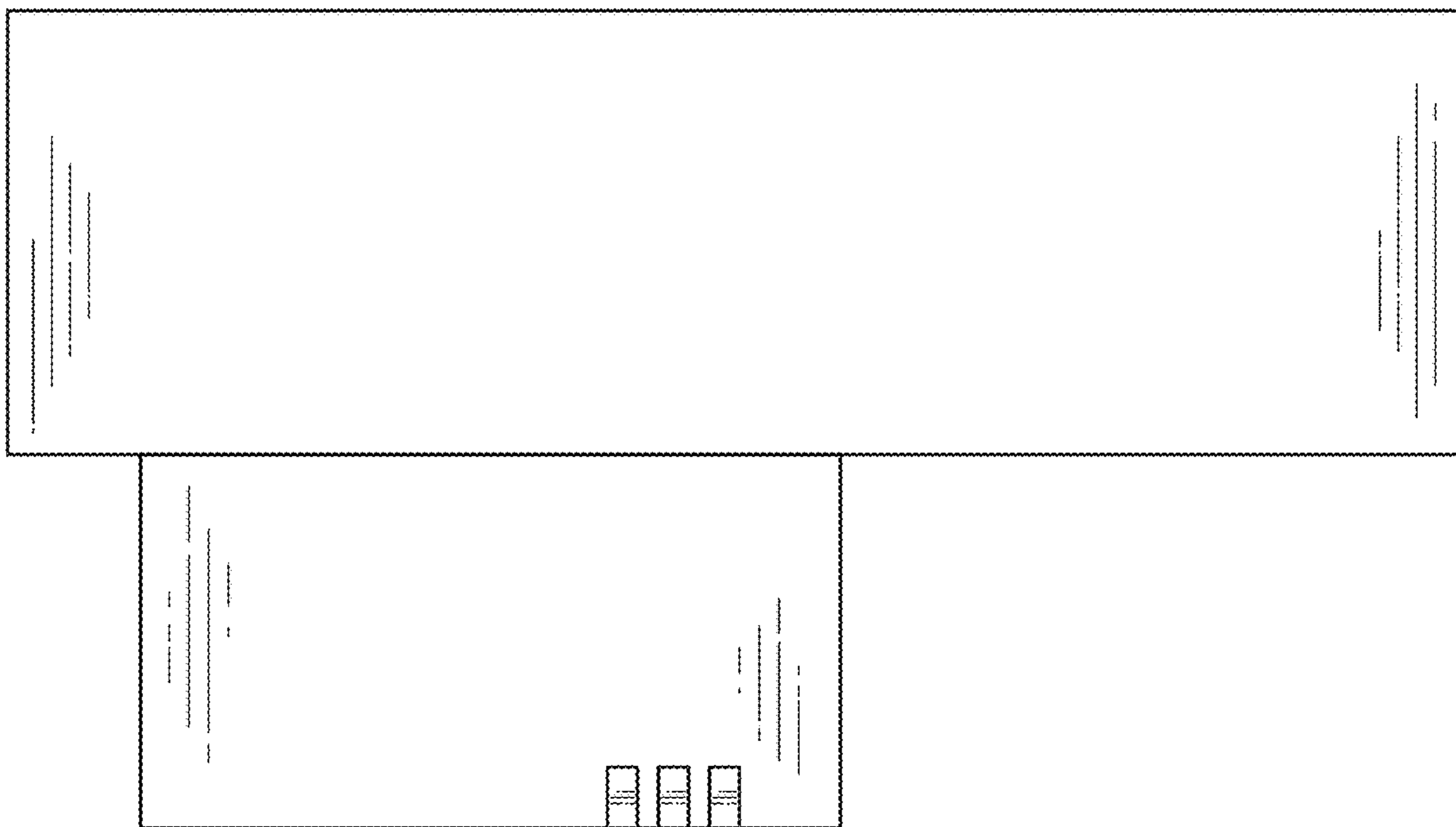


FIG. 8

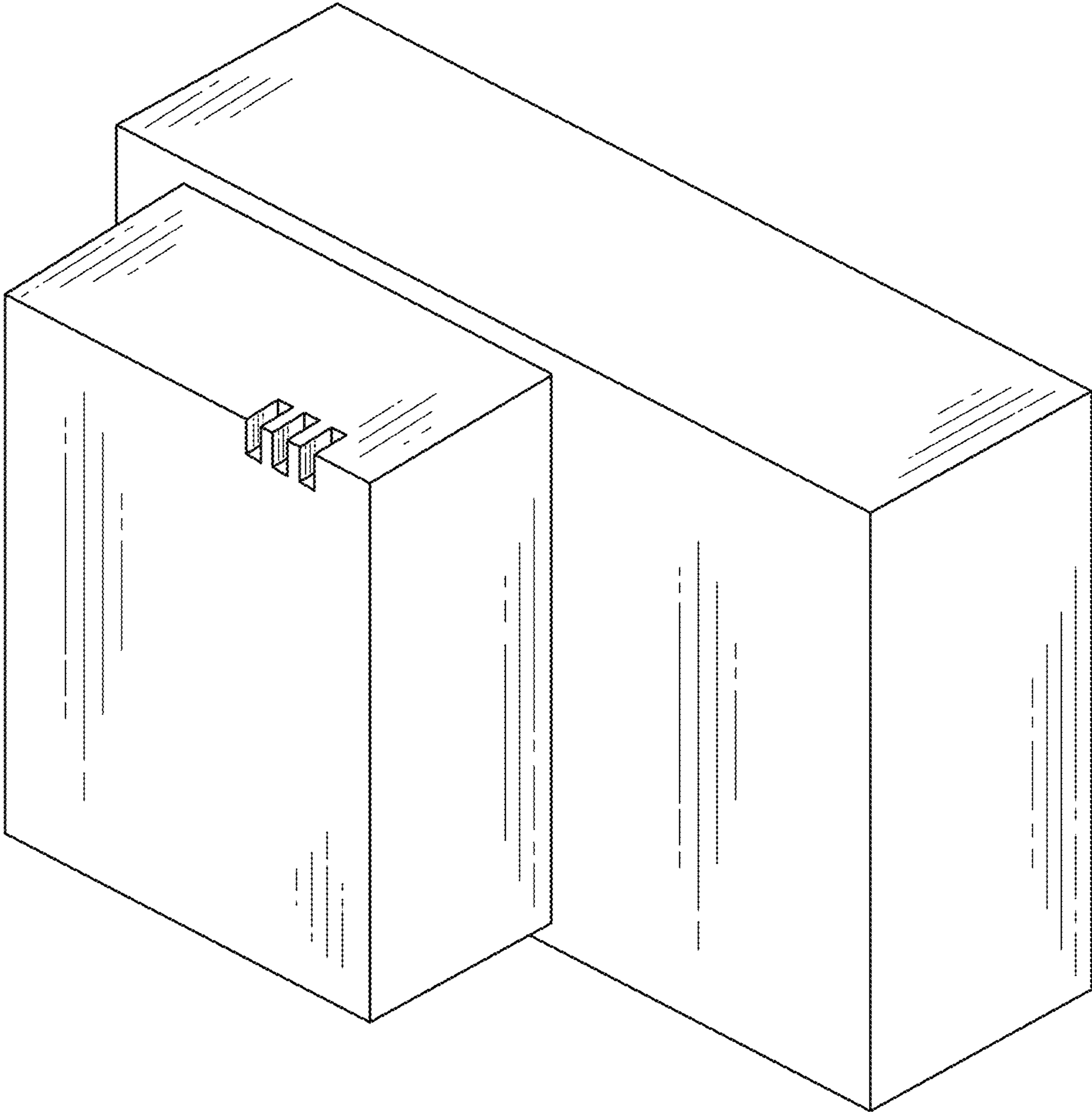


FIG. 9

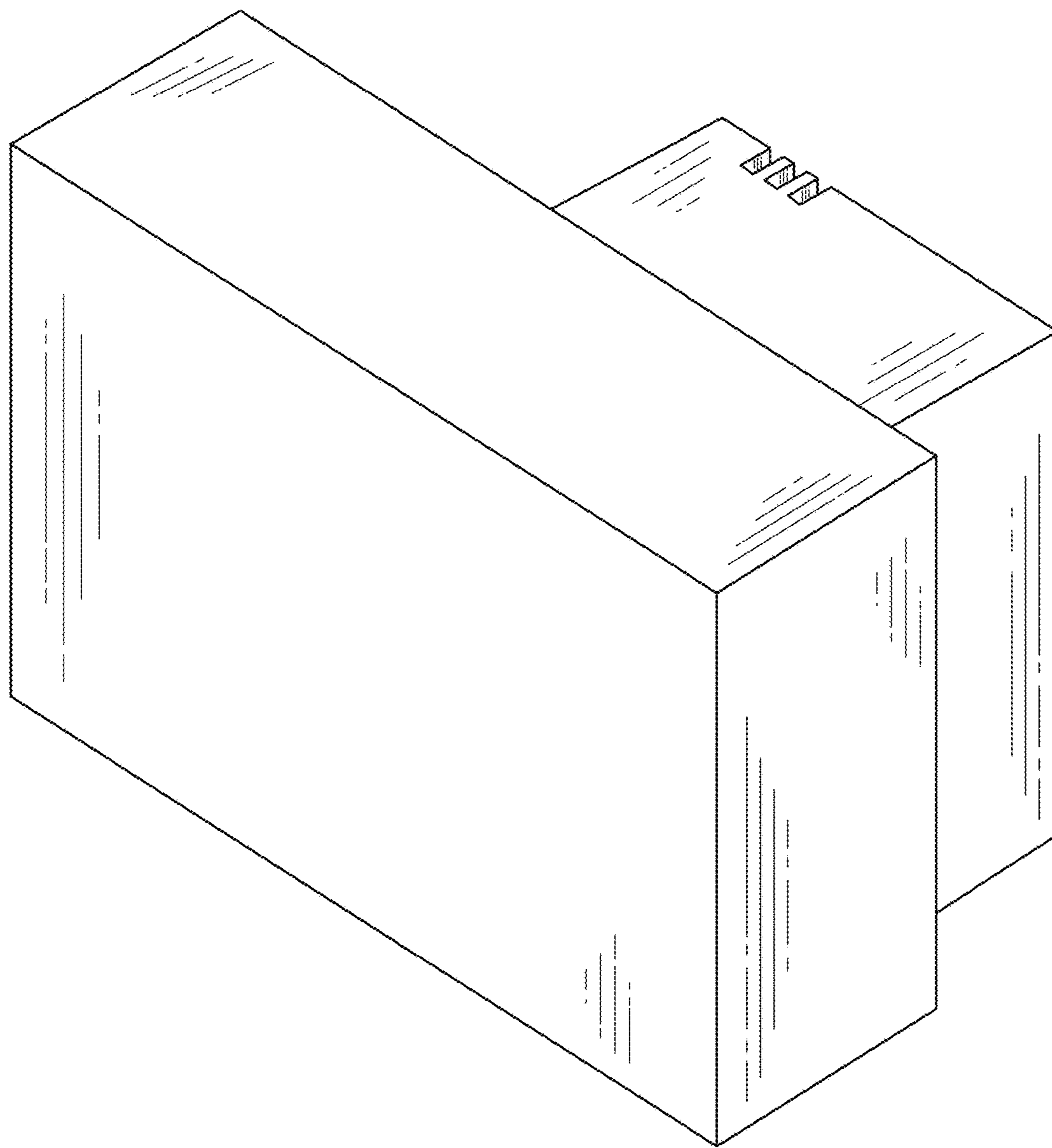


FIG. 10