



US00D780112S

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

(54) **RECHARGEABLE BATTERY DEVICE**  
(71) Applicant: **Limefuel, LLC**, Boulder, CO (US)  
(72) Inventor: **Paul Lin**, Boulder, CO (US)  
(73) Assignee: **LIMEFUEL, LLC**, Boulder, CO (US)  
(\*\*) Term: **14 Years**  
(21) Appl. No.: **29/517,939**  
(22) Filed: **Feb. 18, 2015**  
(51) **LOC (10) Cl.** ..... **13-02**  
(52) **U.S. Cl.**  
USPC ..... **D13/103**  
(58) **Field of Classification Search**  
USPC ..... D13/102-104, 110, 118-121, 184, 199;  
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)

*Primary Examiner* — Rosemary K Tarcza  
(74) *Attorney, Agent, or Firm* — Sheridan Ross P.C.

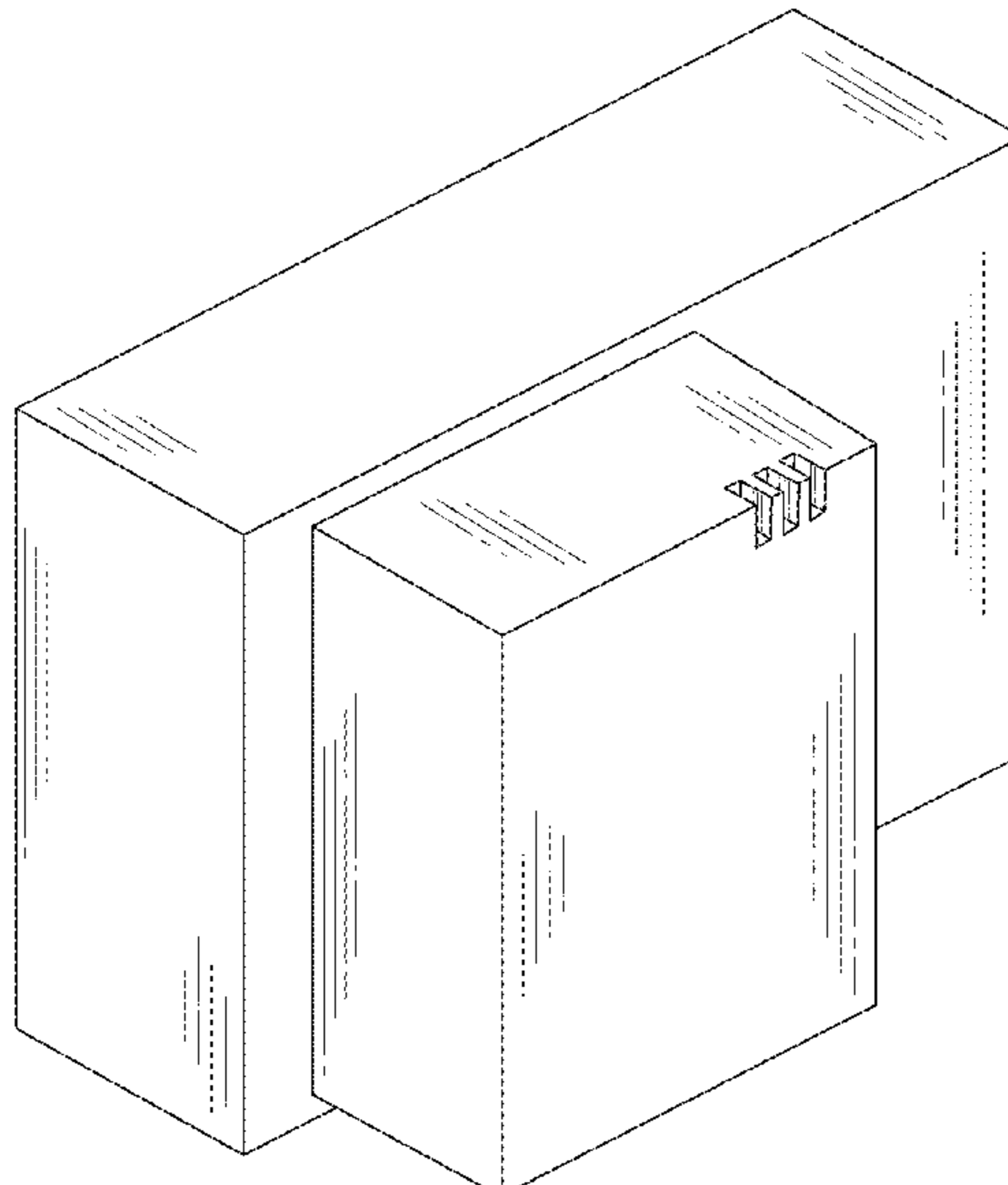
(57) **CLAIM**

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 Ceyress 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



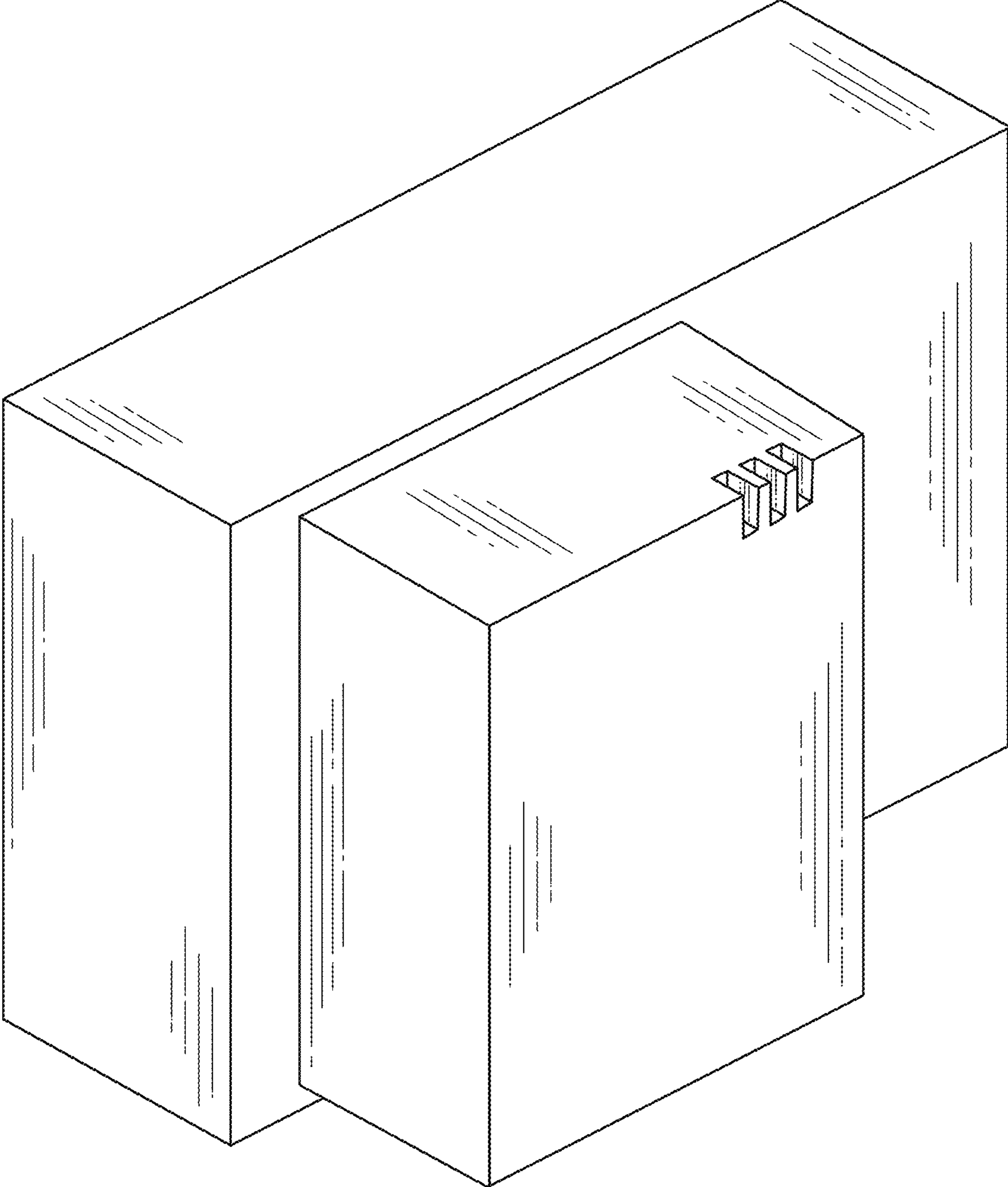


FIG. 1

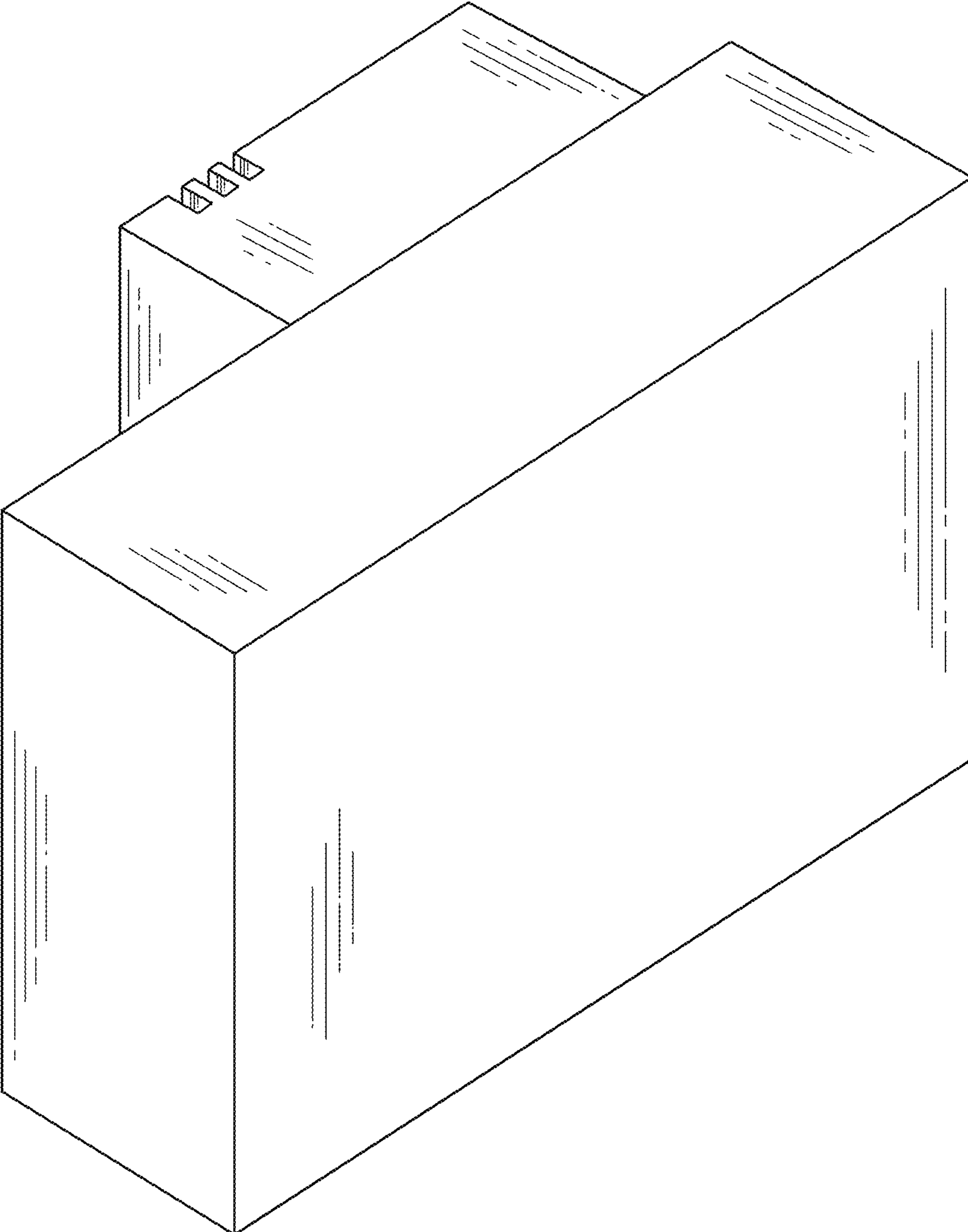


FIG. 2



FIG. 3

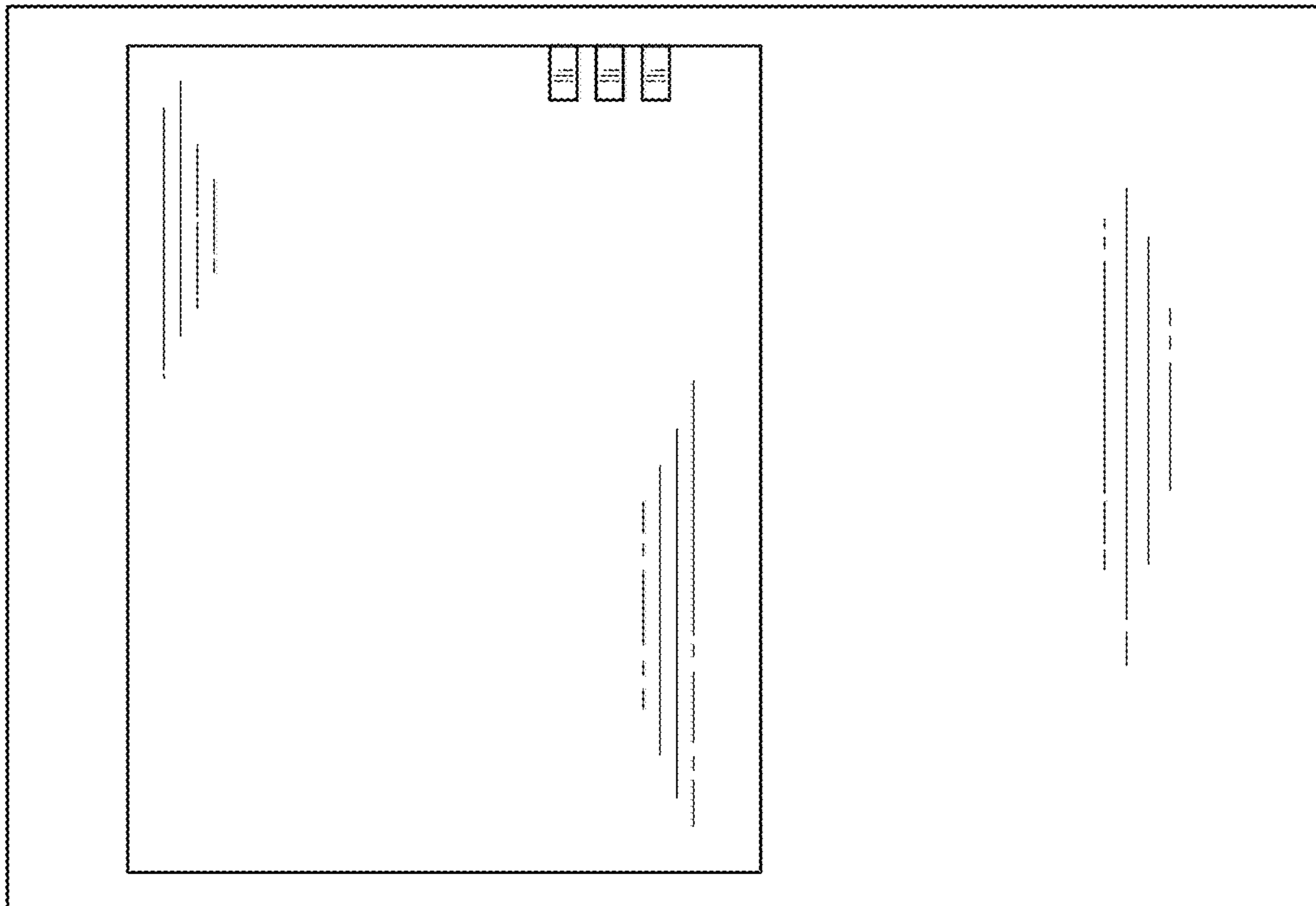


FIG. 4

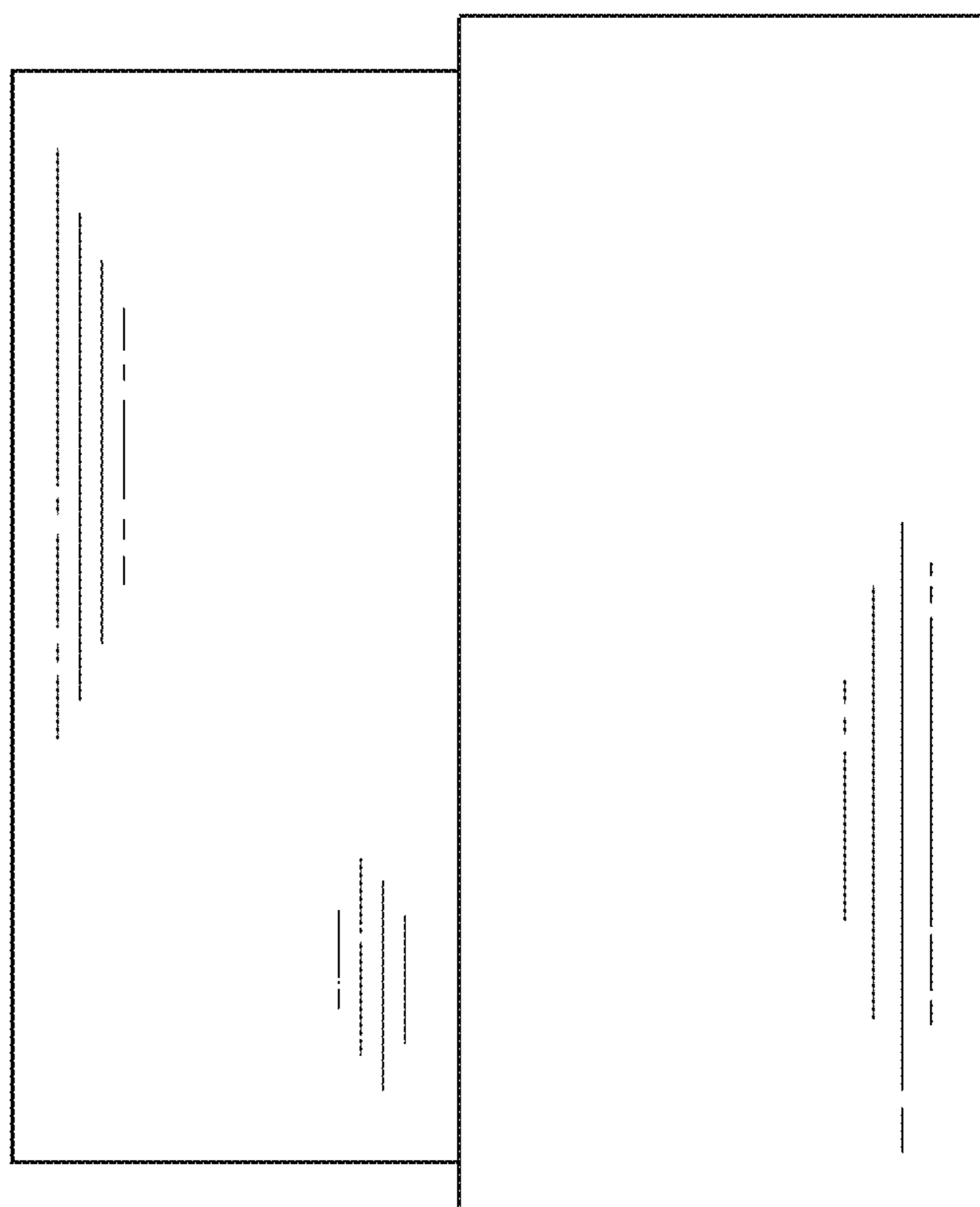


FIG. 5

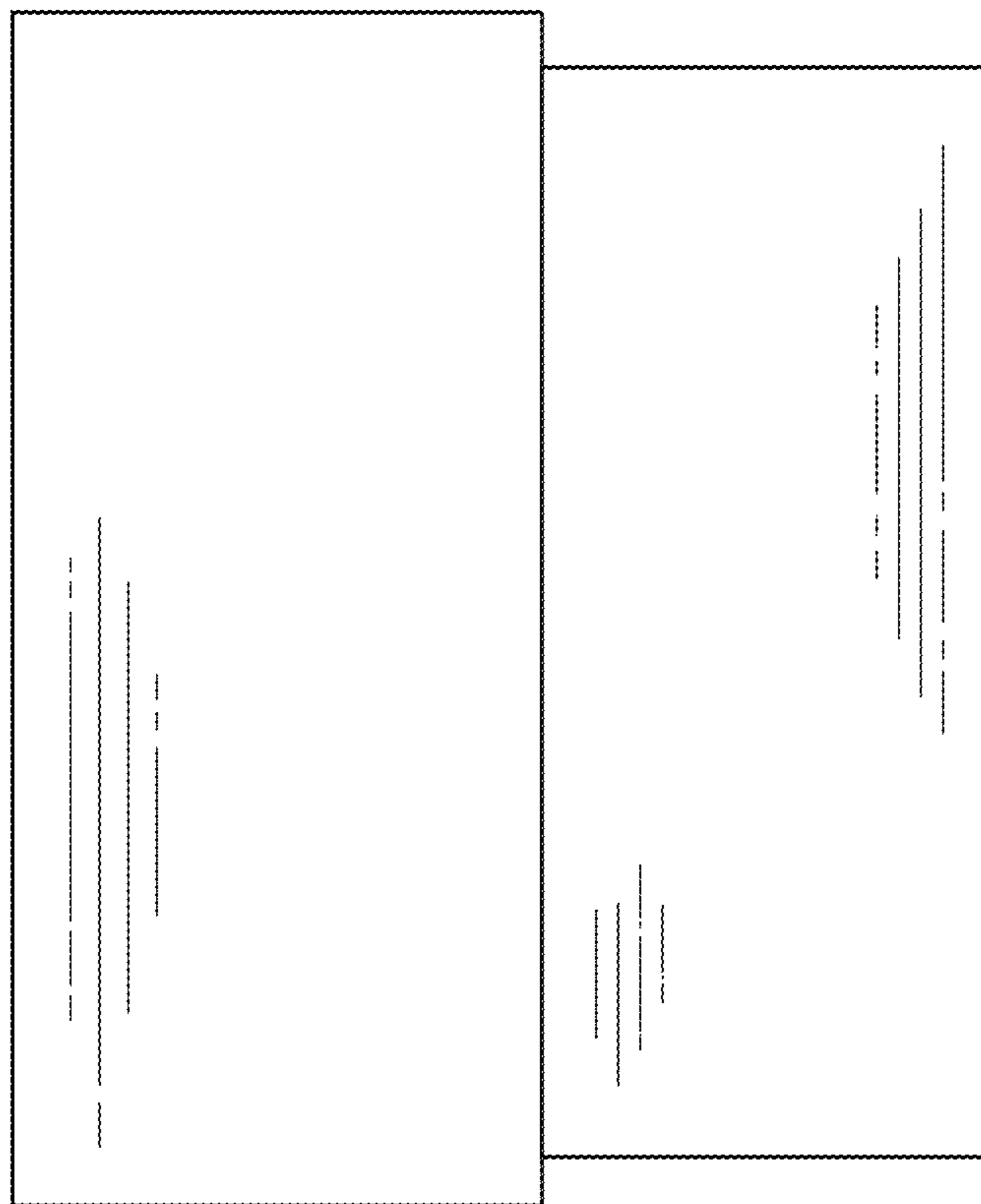


FIG. 6



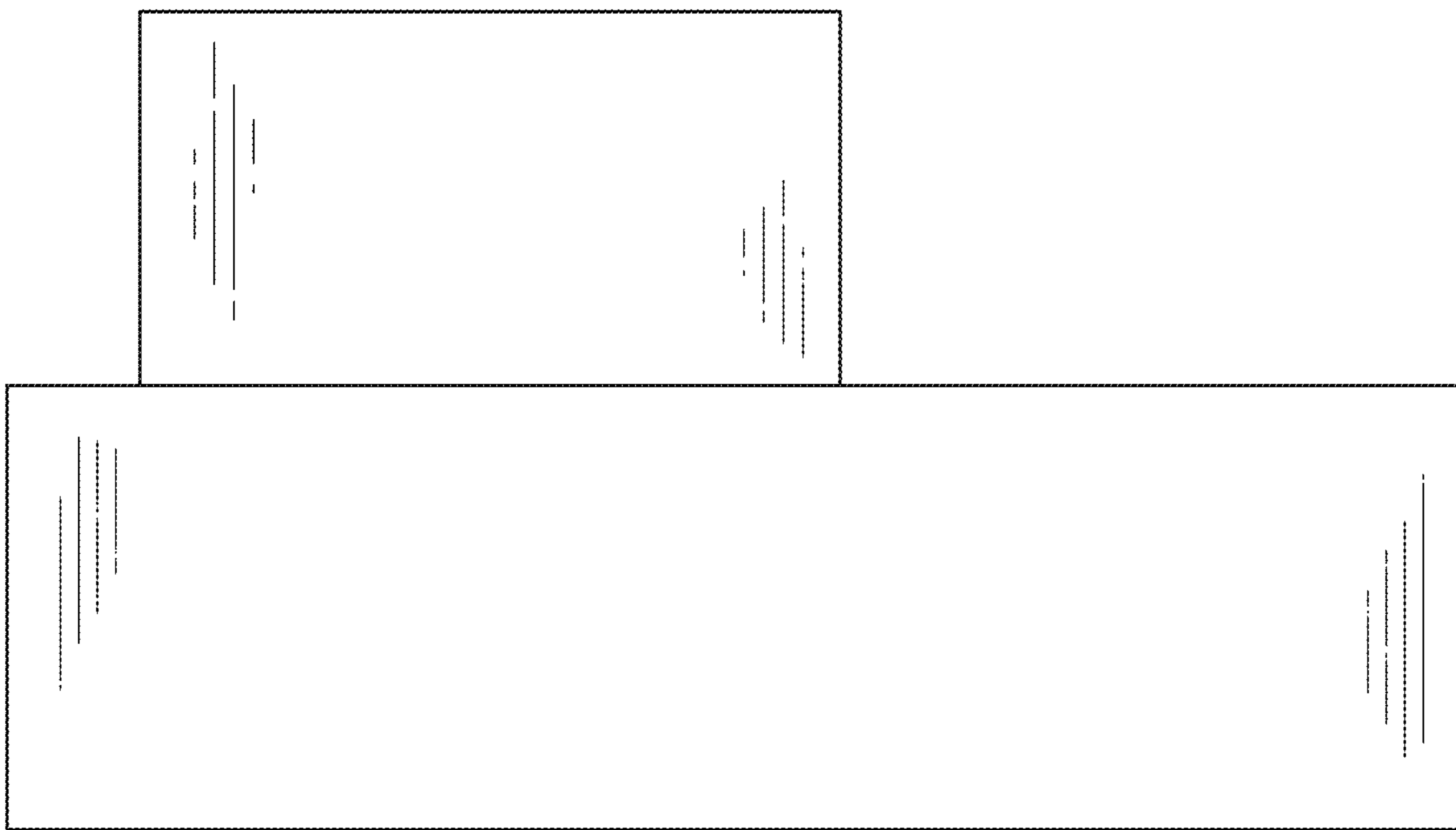


FIG. 7

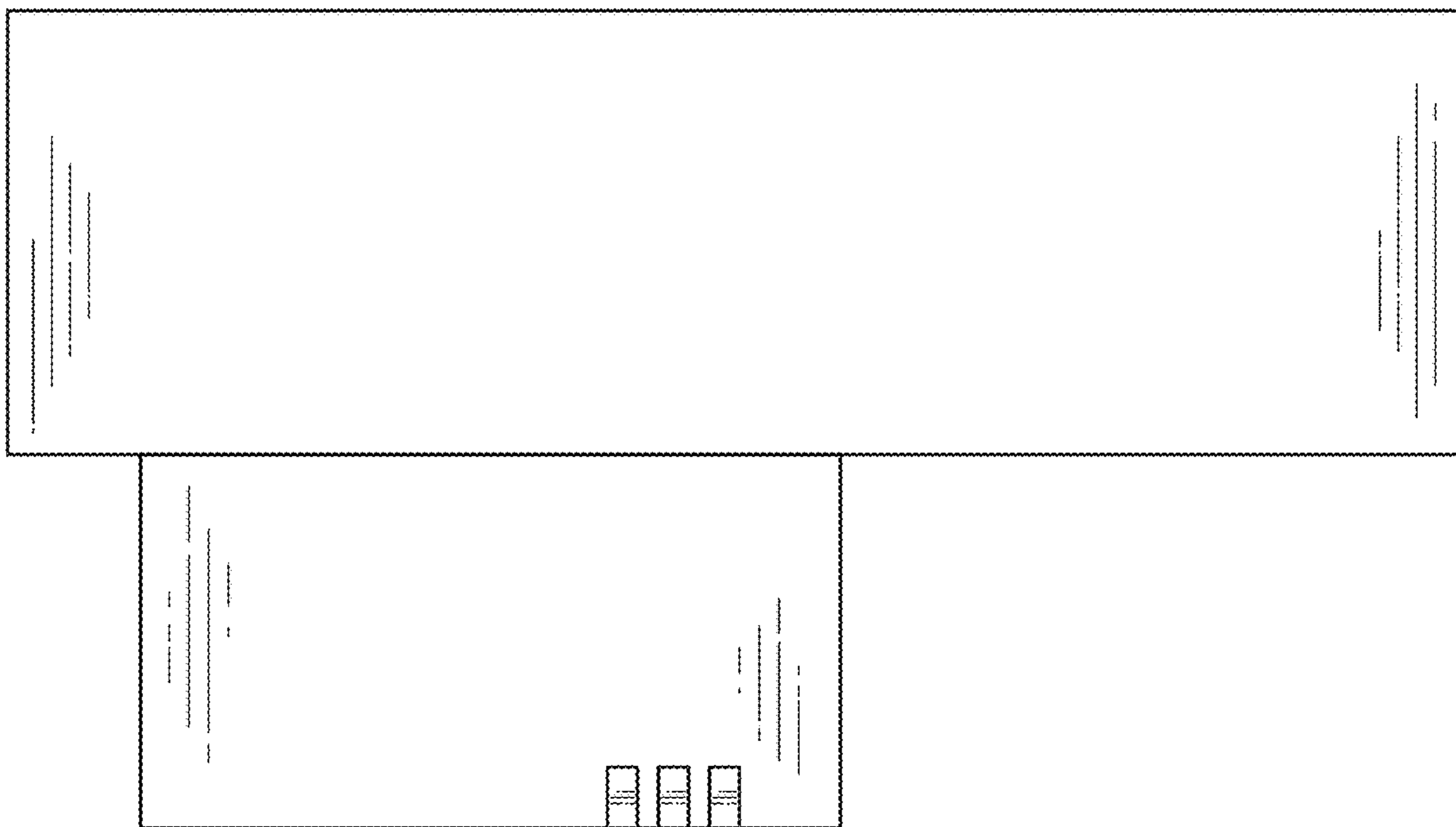


FIG. 8

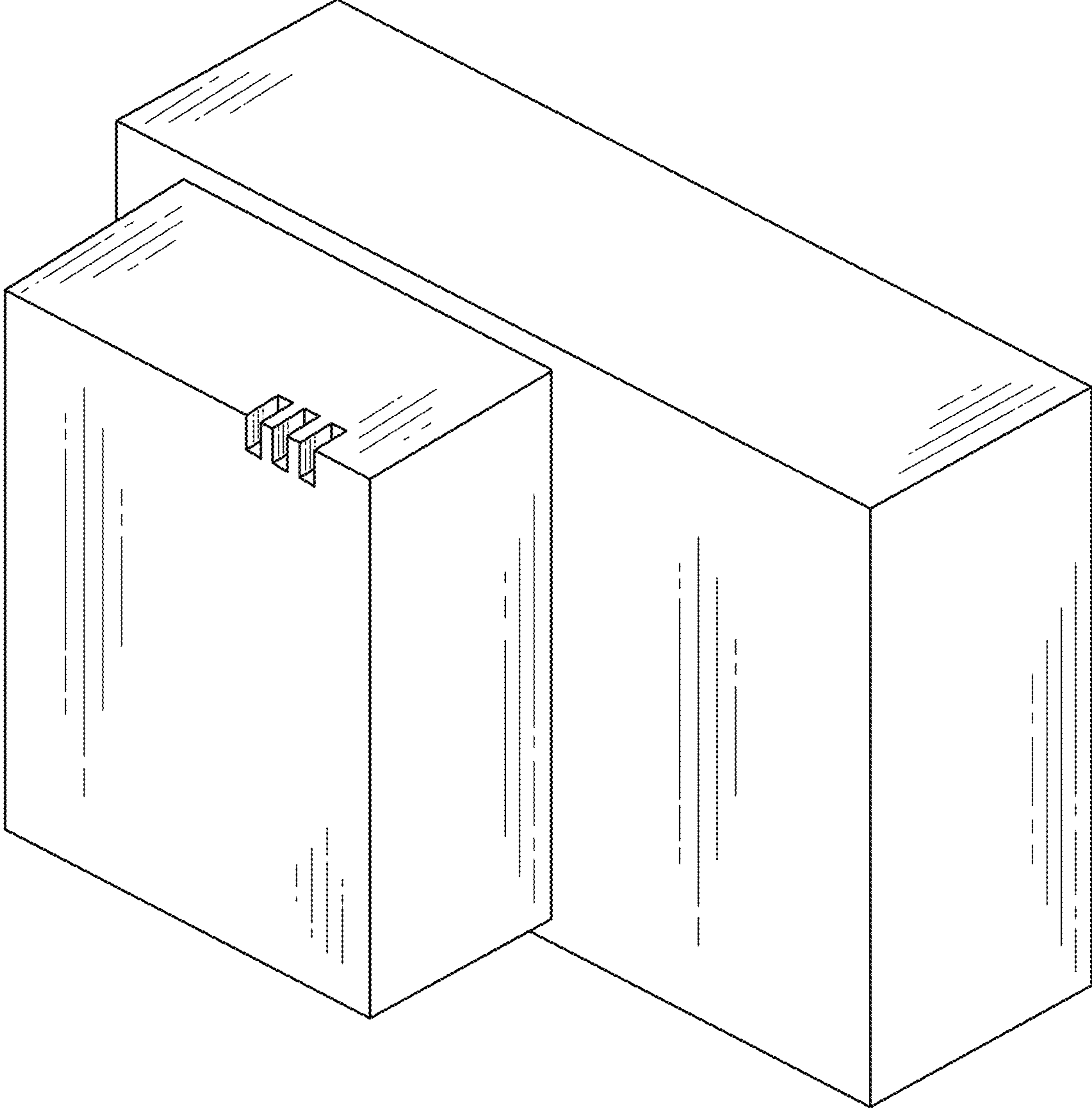


FIG. 9

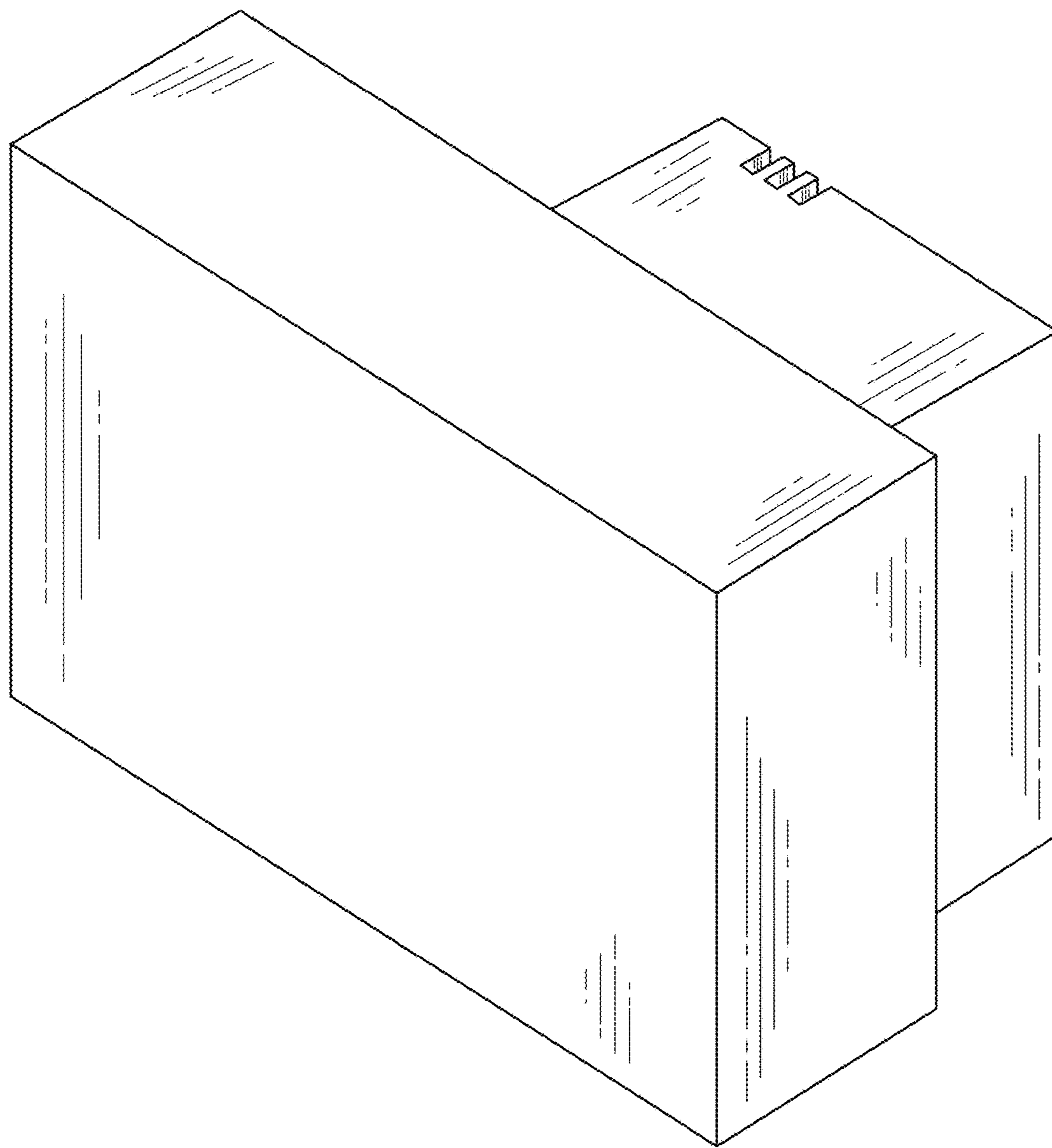


FIG. 10