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(12) **United States Design Patent**
Kondo et al.

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(54) **INTEGRATED CIRCUIT BUILT-IN CARD**
(71) Applicant: **KIOXIA CORPORATION**, Tokyo (JP)
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(73) Assignee: **KIOXIA CORPORATION**, Tokyo (JP)

(56) **References Cited**

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

U.S. PATENT DOCUMENTS

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D445,111 S 7/2001 Okamoto et al.
D459,355 S 6/2002 Shimoda et al.

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(30) **Foreign Application Priority Data**

FOREIGN PATENT DOCUMENTS

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CN 302873810 S 7/2014
JP 1078722 S 7/2000

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

USPC **D14/436**

(58) **Field of Classification Search**

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361/730, 725–728, 753, 799–802, 807,
361/816, 818, 829; 257/678, 679, 693,
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439/136–140, 181, 55, 60, 630, 680, 951;
174/250, 260, 52.1, 52.2; 710/300–303;
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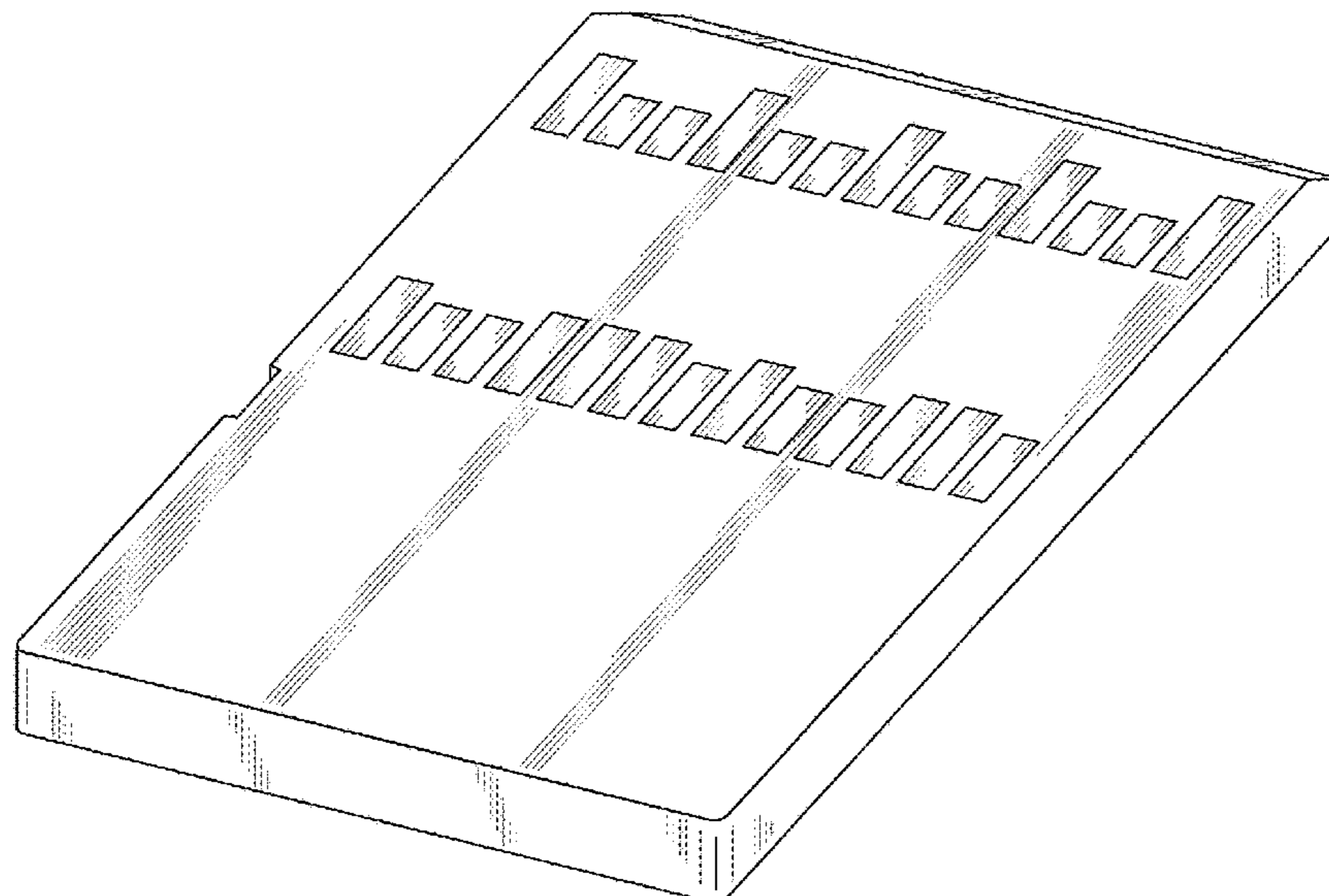
(57) **CLAIM**

The ornamental design for an integrated circuit built-in card, as shown and described.

DESCRIPTION

FIG. 1 is a front, bottom, right side perspective view of an integrated circuit built-in card, showing our new design; FIG. 2 is a rear, bottom, left side perspective view thereof; FIG. 3 is a front view thereof; FIG. 4 is a top view thereof; FIG. 5 is a right side view thereof; FIG. 6 is a left side view thereof; FIG. 7 is a bottom view thereof; and, FIG. 8 is a rear view thereof.

1 Claim, 6 Drawing Sheets



(58) **Field of Classification Search**

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 7/1427-1439; H05K 7/1461; H05K
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 2201/09763; H05K 2201/09772; H05K
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 2201/10462; H05K 2201/10545; H05K
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,538,331 B2 * 3/2003 Masuda B82Y 10/00
 257/676
 6,590,778 B1 * 7/2003 Hojo G06K 19/073
 257/679
 D517,559 S 3/2006 Yu et al.
 D531,181 S 10/2006 Cuellar et al.
 D537,824 S 3/2007 Day et al.
 7,193,161 B1 * 3/2007 Takiar H01L 23/49855
 174/521
 7,218,528 B2 * 5/2007 Chen H05K 5/0282
 235/487
 D547,371 S * 7/2007 Miller D19/1
 D552,098 S 10/2007 Nishizawa et al.

D554,123 S 10/2007 Day et al.
 D588,597 S 3/2009 Nakamura
 D588,598 S 3/2009 Nakamura
 D588,599 S 3/2009 Nakamura
 7,583,071 B2 * 9/2009 Skultety-Betz G01V 3/15
 324/67
 7,830,666 B2 * 11/2010 Hiew H01L 23/544
 174/521
 D639,302 S 6/2011 Nakamura
 D639,812 S 6/2011 Nakamura
 D643,040 S 8/2011 Sedio et al.
 D643,432 S 8/2011 Nakamura
 8,291,144 B2 * 10/2012 Pinto G06F 13/409
 710/301
 D681,640 S 5/2013 Aoki et al.
 D730,911 S * 6/2015 Lim D14/436
 D734,755 S * 7/2015 Kim D14/435
 D735,202 S * 7/2015 Kim D14/435
 D735,203 S * 7/2015 Kim D14/435
 D735,204 S * 7/2015 Kim D14/435
 D736,212 S * 8/2015 Kang D14/436
 D736,213 S * 8/2015 Kang D14/436
 D736,216 S * 8/2015 Kang D14/436
 D739,856 S * 9/2015 Kang D14/436
 D772,232 S * 11/2016 Cho D14/436
 D773,467 S * 12/2016 Cho D14/436
 D783,621 S * 4/2017 Lee D14/436
 D783,622 S * 4/2017 Lee D14/436
 D814,473 S * 4/2018 Kadonaga D14/436
 10,037,784 B2 * 7/2018 Han H01R 12/73
 D848,431 S * 5/2019 Kadonaga D14/436
 10,403,329 B2 * 9/2019 Han G06K 19/07732
 2004/0070952 A1 * 4/2004 Higuchi G06K 19/07741
 361/737
 2004/0175976 A1 * 9/2004 Park G06K 19/07732
 439/176
 2005/0082375 A1 * 4/2005 Nishizawa G06K 19/077
 235/492
 2005/0132093 A1 * 6/2005 Yoon G06F 13/1694
 710/8
 2005/0189426 A1 * 9/2005 Nishizawa G06K 19/07732
 235/492
 2005/0253239 A1 * 11/2005 Nishizawa G06K 19/077
 257/679
 2005/0279838 A1 * 12/2005 Wang G06K 19/07732
 235/492
 2005/0281010 A1 * 12/2005 Wang H05K 1/117
 361/752
 2006/0049265 A1 * 3/2006 Ho H05K 1/117
 235/492
 2006/0166559 A1 * 7/2006 Nakai G06K 19/077
 439/630
 2006/0194479 A1 * 8/2006 Osako H01R 12/7005
 439/638
 2006/0202041 A1 * 9/2006 Hishizawa H01L 21/52
 235/492
 2006/0288145 A1 * 12/2006 Chen H05K 5/0282
 710/301
 2006/0289500 A1 * 12/2006 Okumura G06K 19/07732
 219/686
 2007/0145133 A1 * 6/2007 Jolivet G06K 7/10297
 235/441
 2007/0228536 A1 * 10/2007 Aoki H01L 23/49855
 257/678
 2007/0259567 A1 * 11/2007 Chen G06K 19/07739
 439/638
 2007/0294440 A1 * 12/2007 Haku G06K 19/07732
 710/62
 2008/0083828 A1 * 4/2008 Le G06K 19/07739
 235/441
 2008/0132091 A1 * 6/2008 Choi G06K 19/07
 439/55
 2008/0145968 A1 * 6/2008 Hiew H01L 21/561
 438/107
 2008/0173995 A1 * 7/2008 Kuratomi H05K 3/284
 257/679

(56)

References Cited

U.S. PATENT DOCUMENTS

2008/0173996 A1* 7/2008 Han H01L 25/18
257/679
2010/0049878 A1* 2/2010 Yu G06F 13/387
710/11
2010/0205341 A1* 8/2010 Chen G06F 13/385
710/301
2010/0312965 A1* 12/2010 Cooke G06F 13/4068
711/115
2011/0026213 A1* 2/2011 Chang H01R 12/721
361/679.31
2011/0145465 A1* 6/2011 Okada G06F 13/409
710/301
2012/0117315 A1* 5/2012 Okada G06K 19/07732
711/103
2013/0262764 A1* 10/2013 Jow G06K 19/07732
711/115
2014/0070381 A1* 3/2014 Doi H01L 23/49558
257/666
2014/0169090 A1* 6/2014 Ma G06K 19/07732
365/185.05
2014/0258563 A1* 9/2014 Otsuka G06F 13/385
710/13
2017/0154003 A1* 6/2017 Han G06F 13/4068

FOREIGN PATENT DOCUMENTS

JP 1090240 S 11/2000
JP 1090338 S 11/2000
JP 1090339 S 11/2000
JP 1175800 S 6/2003
JP 1175801 S 6/2003
JP 1175802 S 6/2003
JP 1175803 S 6/2003

JP 1178921 S 7/2003
JP 1178922 S 7/2003
JP 1178923 S 7/2003
JP 1178924 S 7/2003
JP 1178925 S 7/2003
JP 1178926 S 7/2003
JP 1178927 S 7/2003
JP 1206888 S 5/2004
JP 1337855 S 8/2008
JP 1337857 S 8/2008
JP 1337858 S 8/2008
JP 1337859 S 8/2008
JP 1337860 S 8/2008
JP 1337861 S 8/2008
JP 1337866 S 8/2008
JP 1338208 S 8/2008
JP 1338210 S 8/2008
JP 1338211 S 8/2008
JP 1338212 S 8/2008
JP 1344164 S 11/2008
JP 1347784 S 1/2009
JP 1349185 S 1/2009
JP 1349186 S 1/2009
JP 1377077 S 1/2010
JP 1406263 S 1/2011
JP 1406520 S 1/2011
JP 1406521 S 1/2011
JP 1406522 S 1/2011
JP 1407201 S 2/2011
JP 1407202 S 2/2011
JP 1407203 S 2/2011
JP 1407204 S 2/2011
JP 1407554 S 2/2011
JP 1407555 S 2/2011
JP 1423975 S 9/2011
JP 1429402 S 12/2011
JP 1429521 S 12/2011

* cited by examiner

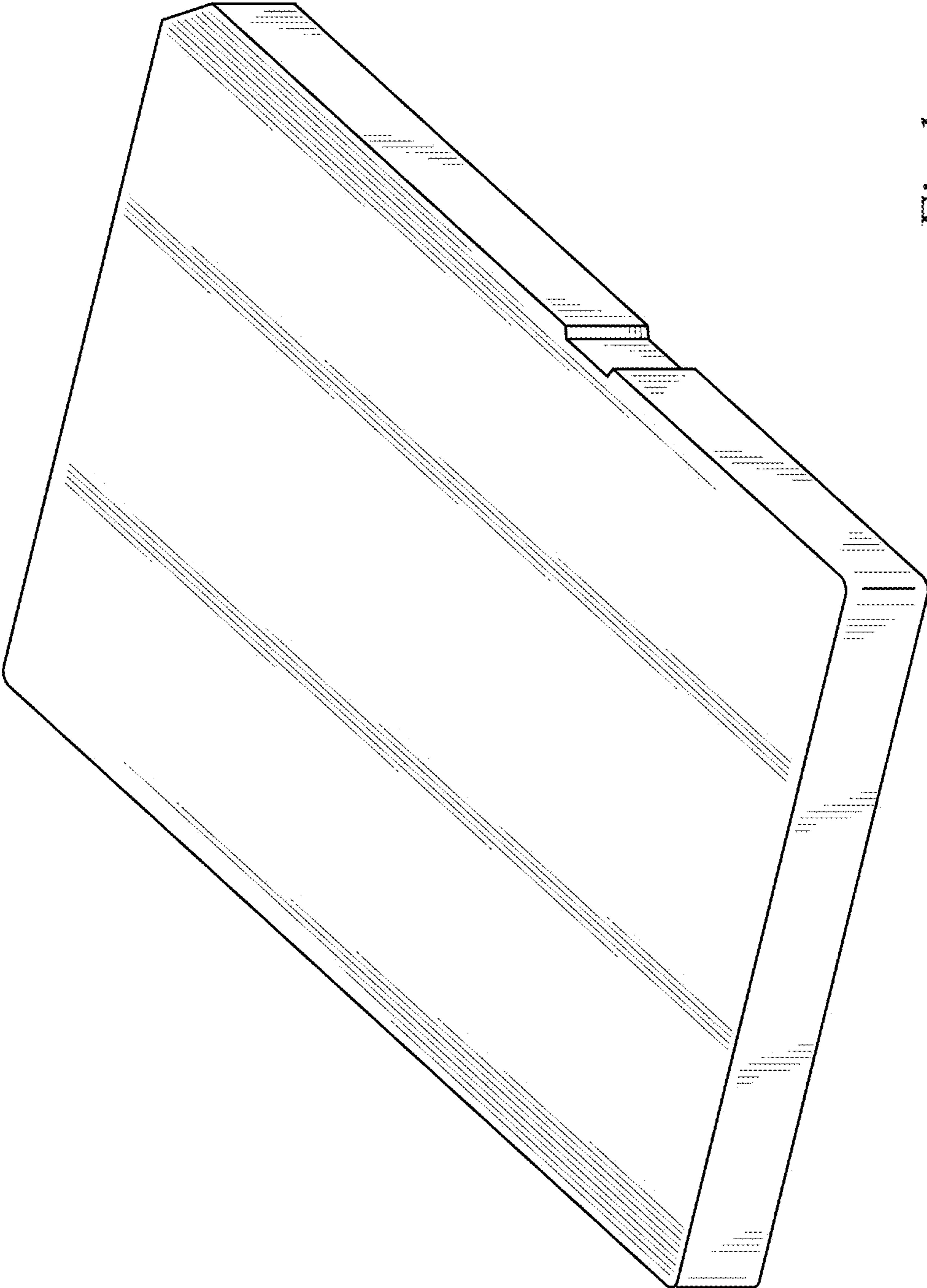


Fig. 1

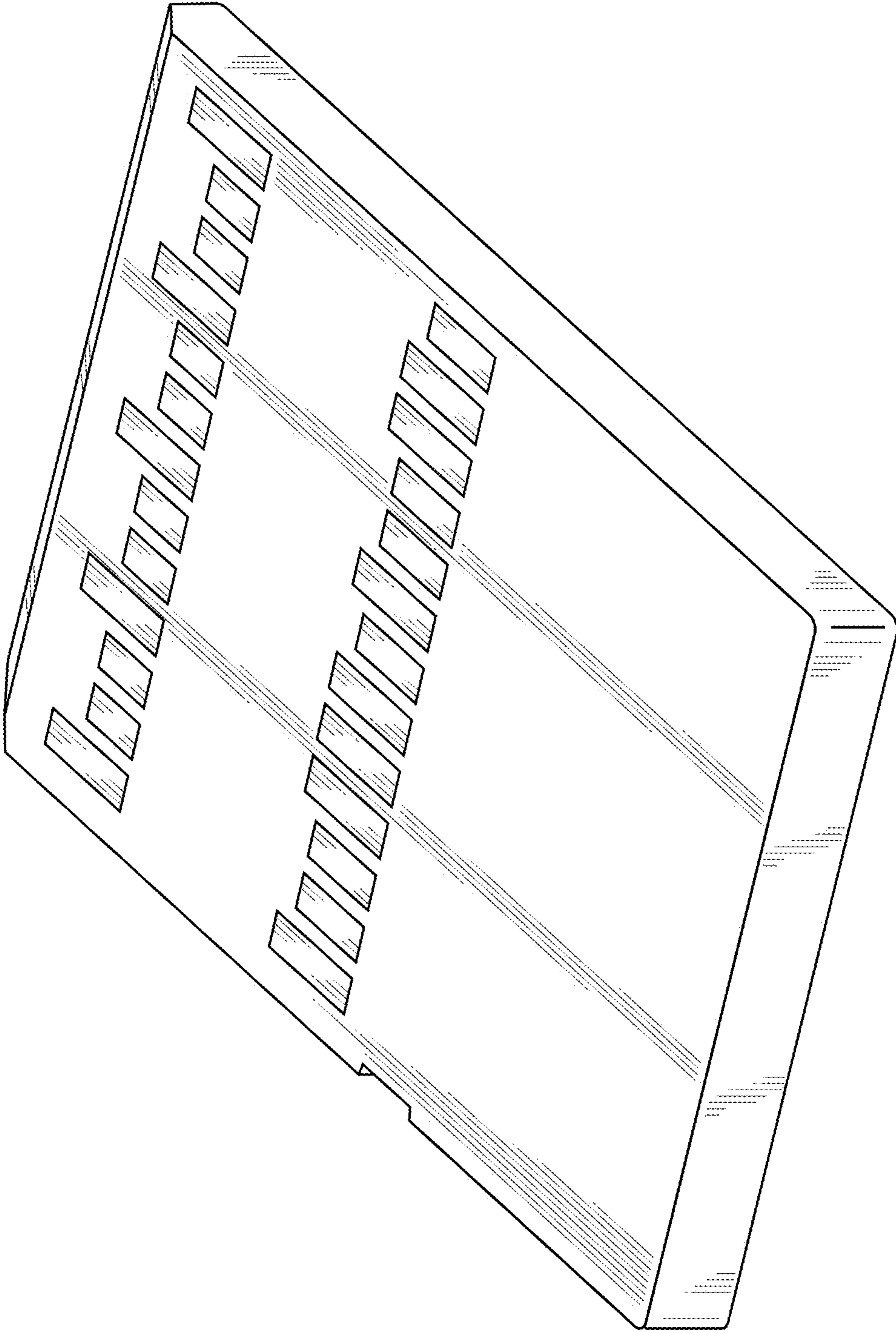


Fig. 2



Fig. 3



Fig. 5

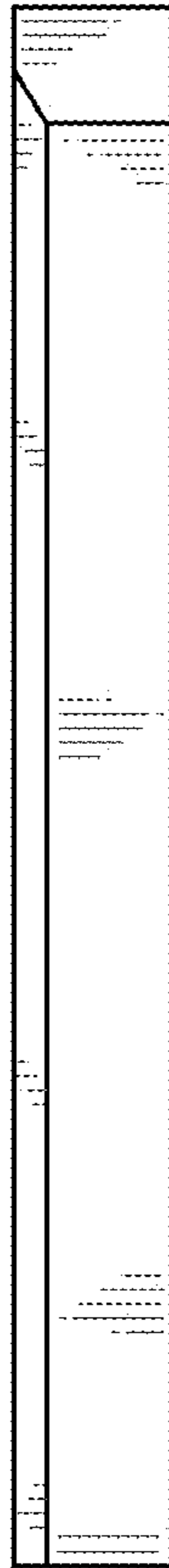


Fig. 4



Fig. 6

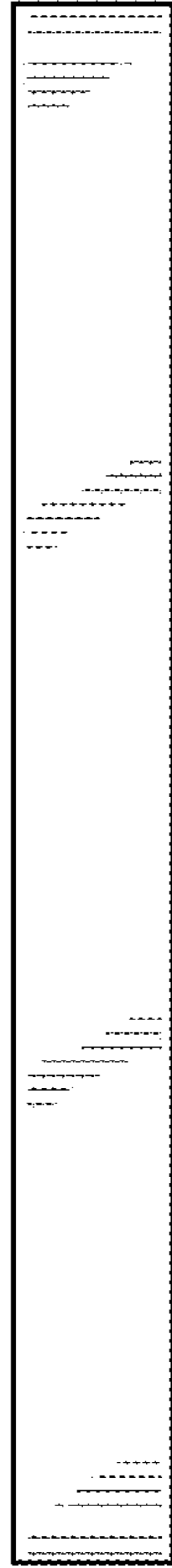


Fig. 7

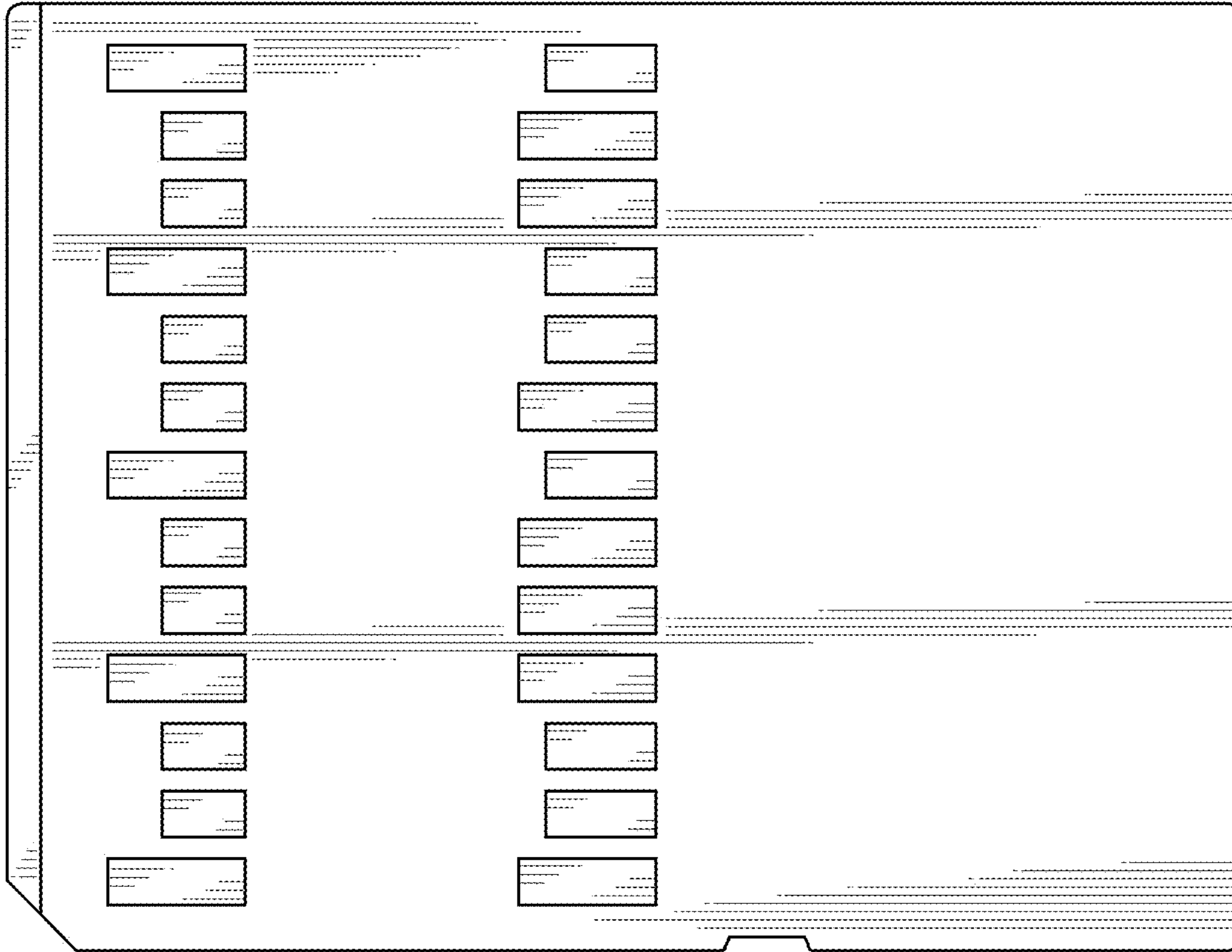


Fig. 8