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Cody et al.

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(54) **BUTTER STICK**
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(**) Term: **15 Years**

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(51) **LOC (13) Cl.** **01-01**

(52) **U.S. Cl.**
USPC **D1/100; D1/121**

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USPC D1/100-130, 199; 426/104, 108, 138, 426/391, 549, 808, 94, 143, 559, 560; D24/101-104; D28/8.1, 8.2, 63; D6/601; D32/40, 43; D9/707, 756; D30/160; D18/56; D25/113, 115; D23/366; D7/502

CPC A23G 3/50; A23G 3/54; A23J 3/26; A23L 1/0067; B41J 2/17593

See application file for complete search history.

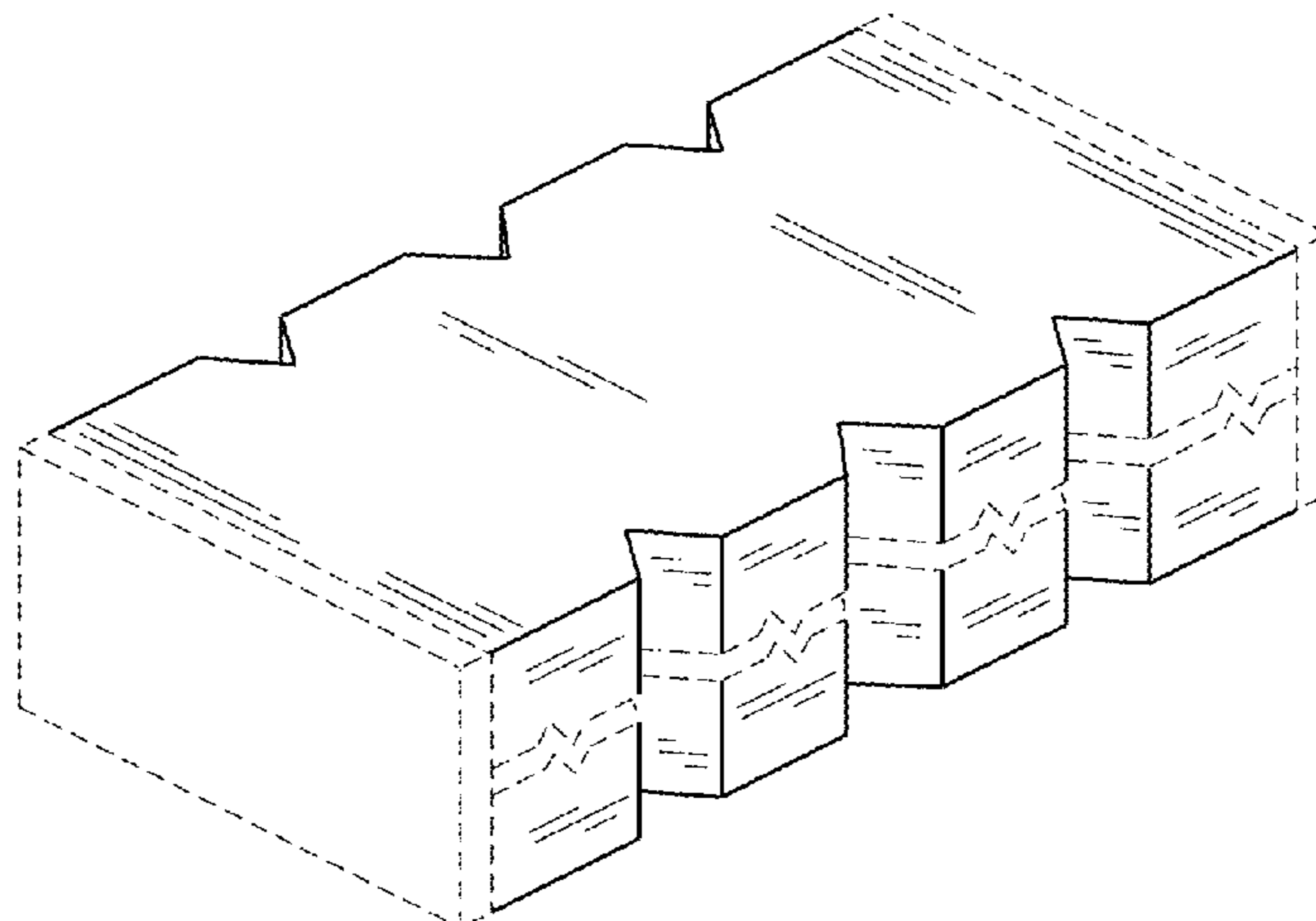
(56) **References Cited**

U.S. PATENT DOCUMENTS

44,342 A 9/1864 Sawyer
147,877 A 2/1874 Spratt

547,721 A 10/1895 Hazel
1,690,784 A 11/1928 Wilhelm
1,807,458 A 5/1931 Weland
1,855,145 A 4/1932 Bartlett
1,855,987 A 4/1932 Rammer
1,952,698 A 3/1934 Willem
D99,590 S 5/1936 Torongo
D103,190 S 2/1937 Stanley
D127,285 S 5/1941 Siemund
D131,278 S 2/1942 Voorhis
2,481,691 A 9/1949 Schaub
3,017,275 A 1/1962 Coulter
3,071,476 A * 1/1963 Werft A23G 4/205
604/890.1
3,267,512 A * 8/1966 Wiley A46B 7/04
401/201
D206,036 S 10/1966 Meeker
D206,429 S 12/1966 Eckelman et al.
3,324,551 A 6/1967 Reinhold et al.
3,410,699 A 11/1968 Leo
D213,074 S 12/1968 Griffith et al.
3,458,268 A * 7/1969 Wozab A46B 11/0003
401/261
D224,077 S 7/1972 Duvall
3,939,522 A * 2/1976 Shimizu A46B 9/005
15/244.1
D239,215 S 3/1976 Miller
3,976,796 A 8/1976 Peters
4,149,815 A * 4/1979 Kawam A46B 11/00
15/104.93
4,215,104 A 7/1980 David et al.
4,353,887 A 10/1982 Hess et al.
D296,193 S 6/1988 Grip et al.
4,866,806 A 9/1989 Bedford
D310,130 S 8/1990 Van
D320,494 S 10/1991 Cederroth et al.
5,088,136 A 2/1992 Stryker et al.
D330,149 S 10/1992 Weimer
5,312,197 A 5/1994 Abramson
D361,077 S 8/1995 Jamison
D366,380 S 1/1996 Kelly
D372,486 S 8/1996 Morris
D375,181 S 11/1996 Tourney et al.
5,776,533 A 7/1998 Okamoto et al.
5,855,937 A 1/1999 Okamoto et al.
D411,111 S 6/1999 Damion et al.
6,168,434 B1 * 1/2001 Bohm-Van Diggelen
A46B 5/0016
132/308

D485,942 S 1/2004 Mcleish
D506,587 S 6/2005 Armaly
D540,182 S 4/2007 Weaver
D545,844 S 7/2007 Kroeker



D551,825 S 9/2007 Nutting
D639,929 S 6/2011 Barford
D659,470 S 5/2012 Narwankar et al.
D666,286 S 8/2012 Chery
8,273,399 B2 9/2012 Bartkowska et al.
8,584,686 B2* 11/2013 Polanish A46B 1/00
132/320
8,776,729 B2* 7/2014 Koo A23K 40/20
119/710
D713,741 S 9/2014 Wilmers
D742,491 S 11/2015 Yamaguchi
D742,497 S 11/2015 D et al.
D748,770 S 2/2016 Hanna
D749,203 S 2/2016 Amico et al.
D760,886 S 7/2016 Peterson et al.
D762,294 S 7/2016 Hanna
D768,946 S* 10/2016 Anderson D32/40
D784,651 S* 4/2017 Loacker D1/127
D785,466 S 5/2017 Son et al.
D792,193 S 7/2017 Ullbors
D793,868 S 8/2017 Kim et al.
D801,623 S 11/2017 Wang
D813,321 S 3/2018 Zaki
D814,727 S 4/2018 Wehrle
D815,461 S 4/2018 Christmas
D836,881 S* 1/2019 Raub D1/121
D845,089 S 4/2019 Williams
D866,623 S 11/2019 Fenske
D869,116 S 12/2019 Burger et al.
D869,117 S 12/2019 Cody et al.
D871,016 S 12/2019 Burger et al.
D899,726 S* 10/2020 Burger D1/100
D902,939 S 11/2020 Chu
D918,526 S 5/2021 Cody et al.
2003/0017248 A1 1/2003 Gray
2003/0126831 A1 7/2003 Altvater et al.
2005/0123663 A1 6/2005 White et al.
2008/0306598 A1* 12/2008 Hansen A61F 2/447
623/17.16
2009/0190866 A1 7/2009 Hughes
2012/0024887 A1 2/2012 Heinze
2012/0040078 A1 2/2012 Narwankar et al.
2012/0294663 A1 11/2012 Pavero et al.
2015/0274409 A1 10/2015 Nachbagauer et al.
2015/0320072 A1 11/2015 Bufton et al.
2017/0238572 A1 8/2017 Danenberg et al.
2020/0060218 A1 2/2020 Burger et al.

FOREIGN PATENT DOCUMENTS

CN 301699053 10/2011
EP 0206674 A2 12/1986
EP 1114580 A2 7/2001
EP 2782441 B1 3/2017
FR 2690310 A1 10/1993
GB 190411615 A 4/1905
GB 190609218 A 6/1907
GB 514618 A 11/1939
JP H03251142 A 11/1991
JP H0723709 A 1/1995
RU 2131097 C1 5/1999
WO 2013190265 A1 12/2013

OTHER PUBLICATIONS

BOC—A Member of the Linde Grp., “Beacuse we love good food. Frezihng and cooling technology for the food industry.”, <https://

www.boc-gas.com.au/en/images/BOC%20Freezing%20and%20Cooling%20brochure_tcm351-68091.pdf>, 2011, 8 pages.
Fennema, O., “Cryogenic Freezing of Foods”, University of Wisconsin at Madison, Madison, Wisconsin; Plenum Press; Retrieved from Internet URL: <https://link.springer.com/content/pdf/10.1007/978-1-4613-4039-3_89.pdf>, 1978, 9 pages.
Nahid, et al., “Modelling the Freezing of Butter”, International Journal of Refrigeration. vol. 31, Issue 1, Retrieved from Internet URL: <https://www.sciencedirect.com/science/article/pii/S0140700707001491>, Jan. 2008, pp. 152-160.
Rahman, M. S., “Handbook of Food Preservation”, Second Edition; CRC Press; http://www.cold.org.gr/library/downloads/Docs/Handbook%20of%20Food%20Preservation.PDF, 2007, 33 pages.
Adekola, Kehinde A., “Influence of Food Extruder Die Dimensions on Extruded Products Expansion”, Journal of Advances in Agricultural Science and Technology; <http://watchpub.org/jaast/issues/2014/october/pdf/Adekola.pdf>, Oct. 29, 2014, pp. 052-058.
Japan, “Butter Stick”, Jun. 28, 2018, 1 page.
Krause, A. J. et al., “The Effect of Refrigerated and Frozen Storage on Butter Flavor and Texture”, J. Dairy Sci. vol. 91 No. 2, 2008, pp. 455-465.
PCT, “International Search Report and Written Opinion”, App. No. PCT/US2019/047534, dated Dec. 23, 2019, 10 pages.
Quora, “What is the Standard Weight of a Stick of Butter in the United States?”, <https://www.quora.com/What-is-the-standard-weight-of-a-stick-of-butter-in-the-United-States>, Jun. 11, 2012, 4 pages.
SPX, “Cold Extrusion of Butter”, Gerstenberg Schroder; <http://www.spxflow.com/en/assets/pdf/GS_cold_extrusion_of_butter_07_12_gb.pdf>, Jul. 2012, 2 pages.
Clay King, “North Star Dies”, www.clay-king.com/clay_extruders/north_star_dies.html, Apr. 1, 2013, 1 page.
Clextral, “Dies”, www.clextral.com/technologies-and-lines/equipment/the-die/, Oct. 29, 2013, 1 page.
Marjon Ceramics, “Extruder”, www.marjonceramics.com/pages/Product/EXTRUDERS.html, Oct. 6, 2011, 1 page.

* cited by examiner

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(57) CLAIM

The ornamental design for a butter stick, as shown and described.

DESCRIPTION

FIG. 1 is a top, front, left side perspective view of a butter stick;
FIG. 2 is a top plan view thereof, the bottom plan view being a mirror image thereof;
FIG. 3 is a front elevation view thereof, the back elevation view being a mirror image thereof; and,
FIG. 4 is a left side elevation view thereof, the right side elevation view being a mirror image thereof.
The unshaded areas shown in evenly-dashed broken lines in the drawings illustrate the portions of the butter stick that form no part of the claim. Any portion of the article between those breaks forms no part of the claimed design.

1 Claim, 2 Drawing Sheets

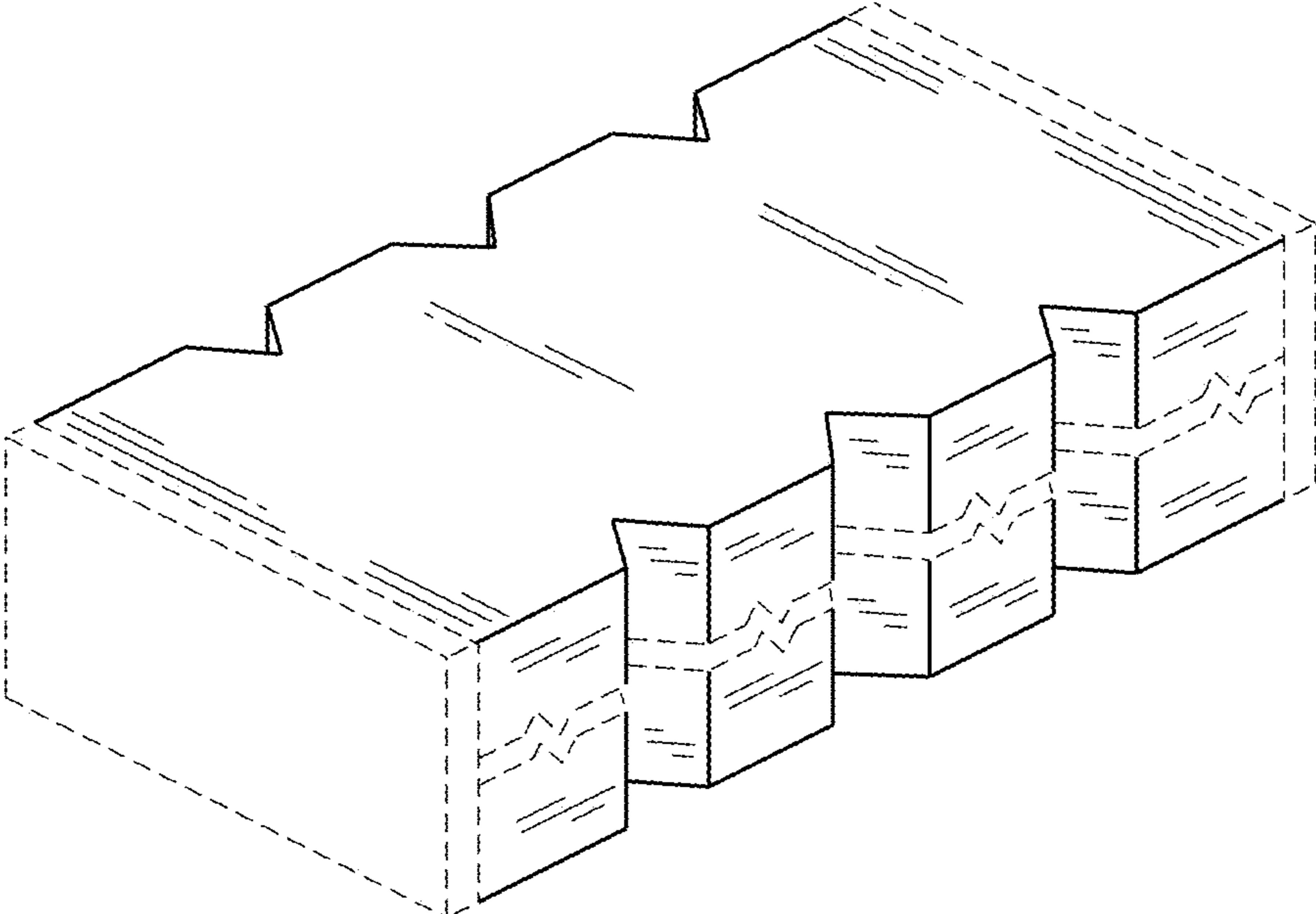


FIG. 1

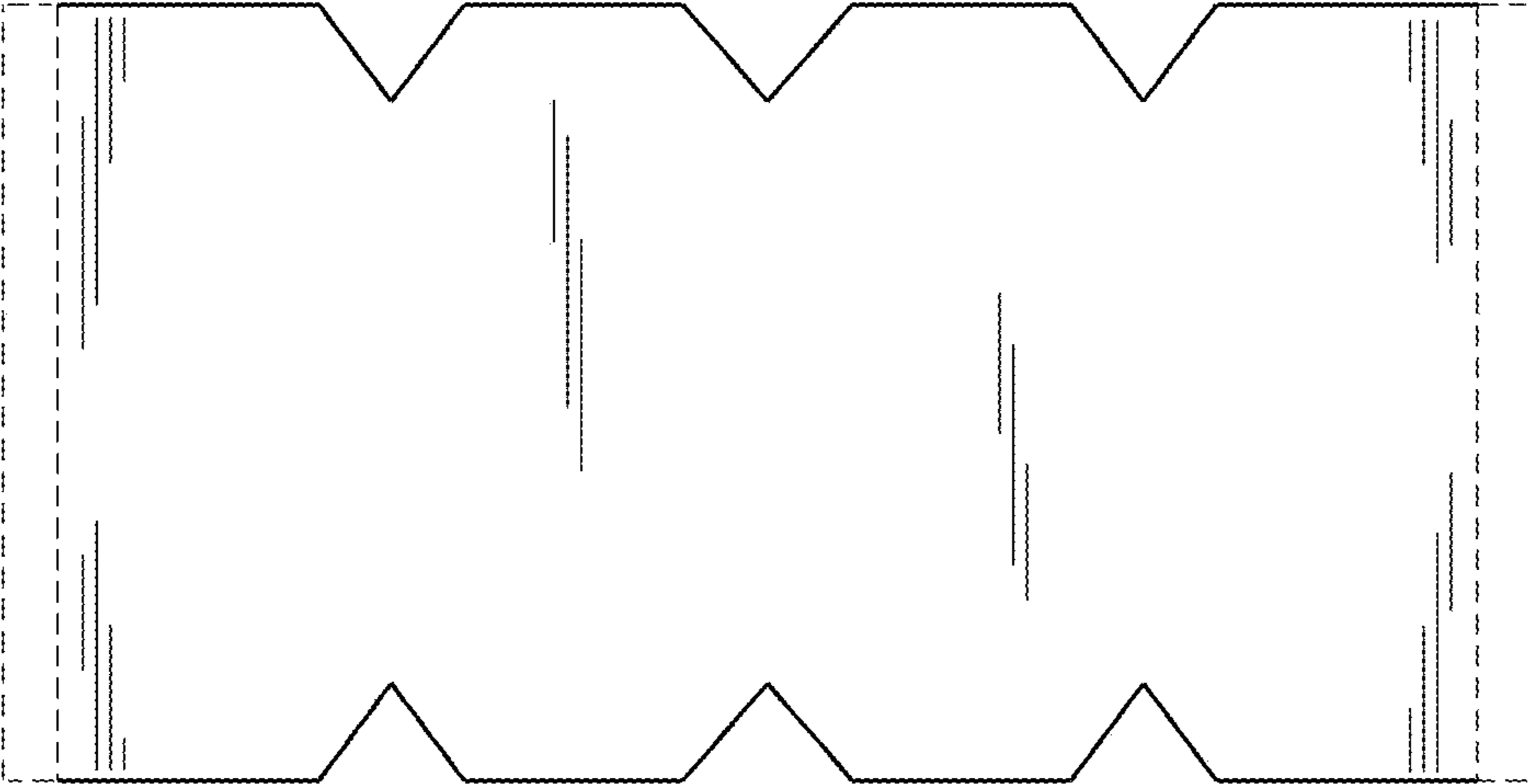


FIG. 2

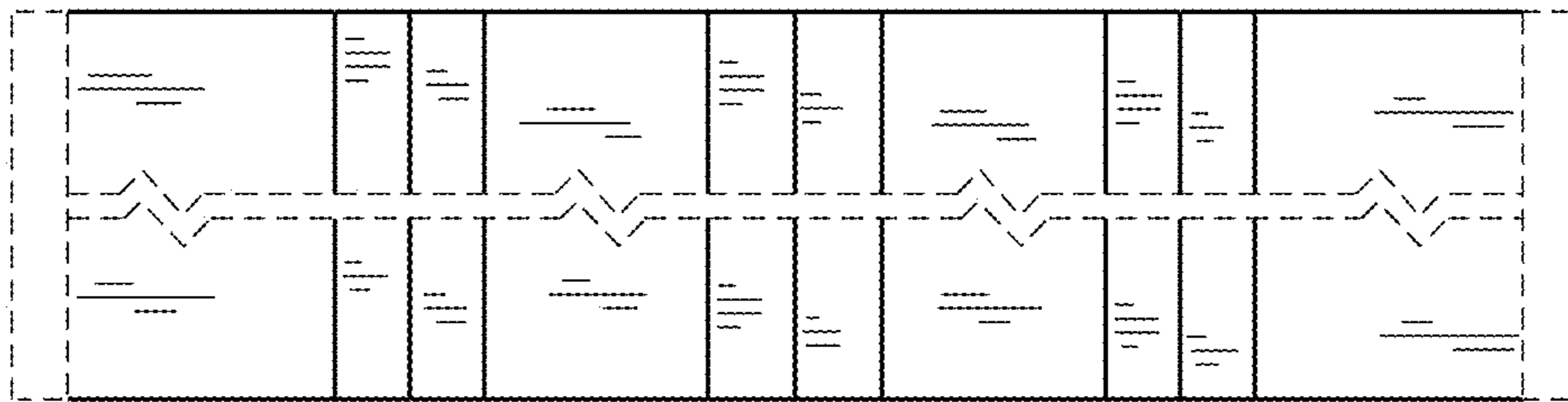


FIG. 3



FIG. 4