



US00D893505S

(12) **United States Design Patent** (10) **Patent No.:** **US D893,505 S**
Suzuki (45) **Date of Patent:** **** Aug. 18, 2020**

(54) **CASSETTE FOR A DIGITAL SLIDE
SCANNER**

(71) Applicant: **HAMAMATSU PHOTONICS K.K.**,
Hamamatsu-shi, Shizuoka (JP)

(72) Inventor: **Yasumoto Suzuki**, Hamamatsu (JP)

(73) Assignee: **HAMAMATSU PHOTONICS K.K.**,
Hamamatsu-shi, Shizuoka (JP)

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

(21) Appl. No.: **29/621,876**

(22) Filed: **Oct. 12, 2017**

(30) **Foreign Application Priority Data**

Apr. 13, 2017 (JP) 2017-007960

(51) **LOC (12) Cl.** **14-02**

(52) **U.S. Cl.**
USPC **D14/453**

(58) **Field of Classification Search**

USPC 2/DIG. 6; 5/417, 419–420, 465,
5/632–634; 108/43; 248/118, 118.1,
248/118.3, 118.5, 205.2, 346, 346.01,
248/346.07, 346.1, 438, 633, 918;
273/338, 438, DIG. 30; 297/218.1,
297/228.12, 352, 377, 440.1, 440.11,
297/440.15, 452.1, 452.16;
312/208.1–208.4, 223.2, 322; 340/710;

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,248,498 A 2/1981 Georges
D275,553 S 9/1984 Emmie et al.

(Continued)

Primary Examiner — Susan Moon Lee

(74) *Attorney, Agent, or Firm* — Faegre Drinker Biddle &
Reath LLP

(57) **CLAIM**

The ornamental design for a cassette for a digital slide
scanner, as shown and described.

DESCRIPTION

FIG. 1 is a front view of a cassette for a digital slide scanner
of the present invention.

FIG. 2 is a rear view thereof.

FIG. 3 is a top plan view thereof.

FIG. 4 is a bottom view thereof.

FIG. 5 is a right side view thereof.

FIG. 6 is a left side view thereof.

FIG. 7 is a perspective view thereof.

FIG. 8 is an enlarged view showing a portion of FIG. 1
defined by the line 8-8.

FIG. 9 is an enlarged view showing a portion of FIG. 2
defined by the line 9-9.

FIG. 10 is an enlarged view showing a portion of FIG. 5
defined by the line 10-10.

FIG. 11 is an enlarged view showing a portion of FIG. 7
defined by the line 11-11.

FIG. 12 is an enlarged cross-sectional view taken along the
line 12-12 in FIG. 8.

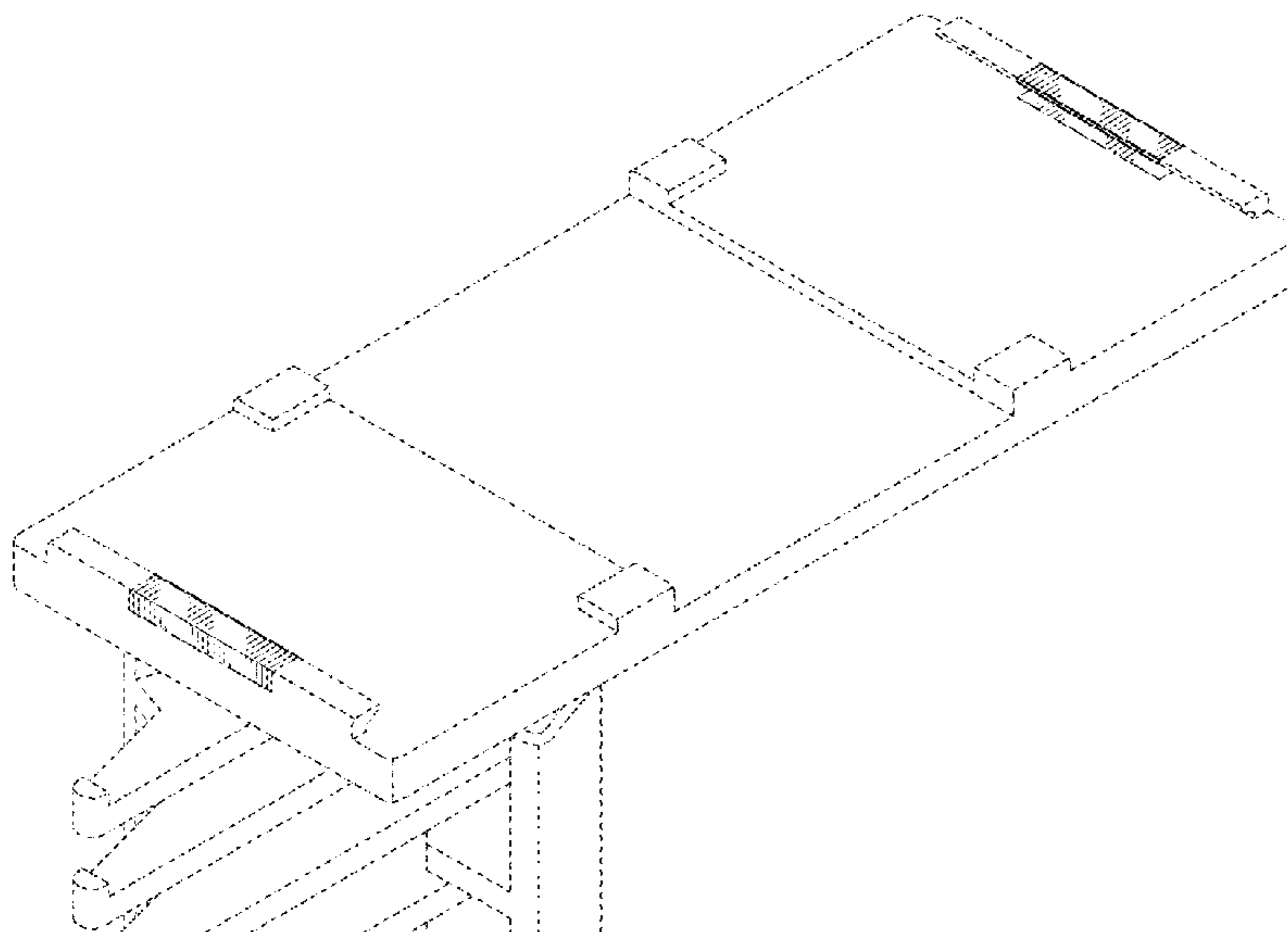
FIG. 13 is an enlarged cross-sectional view taken along the
line 13-13 in FIG. 3 of a portion of FIG. 10 defined by the
line 1301-1301.

FIG. 14 is an enlarged cross-sectional view taken along the
line 14-14 in FIG. 3 of a portion of FIG. 10 defined by the
line 1301-1301; and,

FIG. 15 is an enlarged cross-sectional view taken along the
line 15-15 in FIG. 10.

The features shown in broken lines depict environmental
subject matter only and form no part of the claimed design.
The alternating long and short dashed lines indicate bounds
of the claimed design and form no part thereof.

1 Claim, 15 Drawing Sheets



US D893,505 S

Page 2

(58) Field of Classification Search

USPC 345/163, 173; 360/69, 97.02;
361/679.33–679.45, 737, 752, 736, 728,
361/796, 797, 729, 730, 725–727, 801,
361/798; 400/412, 713–715;
428/137–138, 140, 304.4, 457; 442/9;
D3/273; D6/201, 204, 429–431, 449,
D6/474, 509–510; D9/432; D10/65, 75,
D10/78; D13/103, 119, 162, 184, 199;
D14/110, 114, 125, 240, 242, 299–302,
D14/314, 348–370, 435–438, 496,
D14/478–480, 432, 453; D18/1, 7, 9, 11;
235/441, 443, 487, 492, 493, 495, 380,
235/382, 382.5, 375, 494; 257/678, 679,
257/693, E23.064; 439/946, 948, 159,
439/352, 157, 298, 328, 377, 64;
174/250, 260, 52.1, 52.2; 710/300–303;
438/121; 348/79, 80; D8/354;
403/322.1, 322.4; 353/103, 104, 108–118
CPC G06K 19/06196; G06K 19/072; G06K
19/0721; G06K 19/0722; G06K 19/0723;
G06K 19/0724; G06K 19/0725; G06K
19/0727; G06K 19/0728; G06K 19/073;
G06K 19/07309; G06K 19/077; G06K
19/077; G06K 19/07715; G06K 19/0772;
G06K 19/07724; G06K 19/0726; G06K
19/07728; G06K 19/06037–06206; G06K
19/067; G06K 2019/06262; G06K
7/1417–1495; G06K 19/07726; G06F
21/86; G06F 21/87; G06F 21/77–80;
G06F 21/85–88; G06F 21/00; G06F
1/186–188; G06Q 20/3229; G06Q 20/34;
G06Q 20/341; G06Q 20/346; G06Q
20/349; G06Q 20/3563; G06Q 20/3567;
G06Q 20/357; G06Q 20/3576; G06Q
20/3276; H05K 5/026; H05K 5/0256;
H05K 5/0265; H05K 5/0269; H05K
5/0273; H05K 5/0278; H05K 5/0282;
H05K 5/0286; H05K 5/0291; H05K
5/0295; H05K 5/03; H05K 5/04; H05K
5/06; H05K 5/061; H05K 5/062; H05K
5/063; H05K 5/064; H05K 5/065; H05K
5/066; H05K 5/067; H05K 5/068; H05K
5/069; H05K 7/00; H05K 7/005; H05K
7/02; H05K 7/023; H05K 7/026; H05K
7/04; H05K 7/10; H05K 7/1418; H05K
7/1424; H05K 7/1427–1439; H05K
7/1461; H05K 7/1464–1474; H05K
7/1479; H05K 7/1481; H05K
7/1485–1488; H05K 2201/09745; H05K
2201/09754; H05K 2201/09763; H05K
2201/09772; H05K 2201/098; H05K
2201/09818; H05K 2201/10; H05K
2201/10007; H05K 7/1411; H05K
7/1409; H05K 7/1417; H05K 7/142;
H05K 7/1421–1454; H04N 2201/216;
G07C 9/00722; G07C 9/00571; G07C
9/00904; G07C 9/00103; G03B 23/00;
G03B 23/048; G02B 21/365; G02B
21/367; G02B 21/002; Y10T 403/591;
Y10T 403/595; Y10T 74/18944; Y10T
74/1896; H01R 13/62933; H01R
13/62944; H01R 13/6295; H01R
13/62955; H01R 13/62961; H01R
13/62983; H01R 12/70; H01R 12/7005;
H01R 12/7011

See application file for complete search history.

(56)

References Cited

U.S. PATENT DOCUMENTS

D303,988	S	10/1989	Buchweitz, Jr. et al.	
D310,520	S	9/1990	Bedard	
D310,823	S	9/1990	Chabala et al.	
D311,391	S *	10/1990	Ueshin	D14/438
D312,205	S	11/1990	de Rooij	
D315,720	S	3/1991	Freehauf	
D325,573	S *	4/1992	Glegg	D14/438
D326,447	S *	5/1992	Hofland	D14/438
5,136,864	A	8/1992	Spiekermann et al.	
D348,258	S *	6/1994	Giompalo	D14/438
D376,135	S *	12/1996	Sharp	D14/438
5,726,435	A	3/1998	Hara et al.	
D393,459	S *	4/1998	Barbeau	D14/438
5,845,978	A *	12/1998	Jung	G06F 1/181 312/244
D414,165	S	9/1999	Klein	
D464,354	S *	10/2002	Small	D14/435
D468,743	S *	1/2003	Kawanobe	D14/435
D494,975	S *	8/2004	McClelland, II	D14/435
6,878,006	B1	4/2005	Heidenreich et al.	
6,912,124	B2	6/2005	Megason et al.	
D509,219	S *	9/2005	Avery	D14/435
6,948,961	B2	9/2005	Oguchi	
6,992,900	B1	1/2006	Suzue et al.	
D520,015	S *	5/2006	Peddle	D14/435
7,140,738	B2	11/2006	Guiney et al.	
D543,206	S *	5/2007	Maruyama	D14/435
D544,866	S *	6/2007	Wang	D14/438
D555,653	S *	11/2007	Tseng	D14/435
7,295,447	B2	11/2007	Strmiska et al.	
7,300,163	B2	11/2007	Scampini	
7,301,778	B1	11/2007	Fang	
D578,127	S	10/2008	Crisp et al.	
D579,940	S *	11/2008	Pepin	D14/435
D588,132	S *	3/2009	Lauffer	D14/432
7,571,864	B2	8/2009	Kiliccote	
D600,698	S *	9/2009	Kramer	D14/432
D611,049	S *	3/2010	Kramer	D14/432
7,753,457	B2	7/2010	Wood	
7,859,667	B2	12/2010	Scampini	
8,098,956	B2	1/2012	Tatke et al.	
D656,391	S	3/2012	McClain et al.	
D659,133	S *	5/2012	Crisp	D14/301
D664,544	S *	7/2012	Yi	D14/436
D673,956	S	1/2013	Yokoyama	
D686,623	S	7/2013	Bennett, Jr. et al.	
8,573,499	B1	11/2013	Boyle	
8,593,827	B1	11/2013	Lewis et al.	
8,625,930	B2	1/2014	Tatke et al.	
8,675,992	B2	3/2014	Dietz et al.	
D702,646	S	4/2014	Uebayashi et al.	
8,744,213	B2	6/2014	Tatke et al.	
D711,387	S *	8/2014	Kuehn	D14/435
8,797,396	B2	8/2014	Dietz et al.	
8,985,443	B1	3/2015	Boyle	
D729,250	S *	5/2015	Han	D14/436
D740,817	S	10/2015	Ignomirello	
9,300,658	B1	3/2016	Sadacharam et al.	
D755,182	S	5/2016	Bassett et al.	
9,576,172	B2	2/2017	Huang et al.	
D794,643	S *	8/2017	Bang	D14/435
D794,644	S *	8/2017	Bang	D14/435
D795,262	S *	8/2017	Bang	D14/435
9,776,322	B2	10/2017	Nilsson et al.	
D804,484	S *	12/2017	Kim	D14/435
D808,970	S	1/2018	Gessford et al.	
D828,357	S *	9/2018	Lim	D14/436
D830,363	S	10/2018	Helms et al.	
D830,974	S	10/2018	Kufner et al.	
D839,271	S	1/2019	King-Murrey et al.	
10,178,807	B2 *	1/2019	Conn	H05K 7/1485
D842,304	S *	3/2019	Depay	D14/435
D848,434	S *	5/2019	Toyoda	D14/436
D855,617	S *	8/2019	Williams	D14/436
D857,021	S *	8/2019	Ohta	D14/435

(56)

References Cited

U.S. PATENT DOCUMENTS

D860,140 S 9/2019 Wu
D862,475 S * 10/2019 Lim D14/436
D863,311 S * 10/2019 Depay D14/435
D866,555 S * 11/2019 Suzuki D14/432
D868,069 S * 11/2019 Hung D14/435
D868,787 S * 12/2019 Magi D14/436
D869,470 S * 12/2019 Lim D14/436
D872,699 S 1/2020 Chen
D876,443 S * 2/2020 Morgan D14/436
2005/0142940 A1 6/2005 Manine
2006/0109432 A1 5/2006 Guiney et al.
2008/0002853 A1 1/2008 Kawabe et al.
2008/0013272 A1 1/2008 Bailey et al.
2008/0121688 A1 5/2008 Harrop
2008/0240613 A1 10/2008 Dietz et al.
2008/0301464 A1 12/2008 Parkinson
2009/0043783 A1 2/2009 Wakasa et al.
2009/0057420 A1 3/2009 Onoda et al.
2009/0108057 A1 4/2009 Mu et al.
2009/0255992 A1 10/2009 Shen
2011/0043858 A1 2/2011 Jetter
2012/0027325 A1 2/2012 Lacarra
2012/0104105 A1 5/2012 Nemet et al.
2012/0197660 A1 8/2012 Prodanovich
2012/0209688 A1 8/2012 Lamothe et al.
2012/0267440 A1 10/2012 Nakaya et al.
2012/0323699 A1 12/2012 Phillips
2013/0026241 A1 1/2013 Sakahashi et al.
2013/0043302 A1 2/2013 Powlen et al.
2013/0087609 A1 4/2013 Nichol et al.
2013/0126598 A1 5/2013 Beadles et al.
2013/0146658 A1 6/2013 Guerra

2013/0166441 A1 6/2013 Kobylkin et al.
2013/0221114 A1 8/2013 Myers et al.
2013/0320099 A1 12/2013 Acton et al.
2013/0341417 A1 12/2013 Argue et al.
2014/0070012 A1 3/2014 Hunt et al.
2014/0100973 A1 4/2014 Brown et al.
2014/0108606 A1 4/2014 Beadles
2014/0110468 A1 4/2014 Kandregula
2014/0110486 A1 4/2014 Nemet
2014/0117100 A1 5/2014 Black et al.
2014/0117101 A1 5/2014 Cok
2014/0144996 A1 5/2014 Friedman et al.
2014/0149285 A1 5/2014 De et al.
2014/0224888 A1 8/2014 Bomer et al.
2014/0224889 A1 8/2014 Key
2014/0263667 A1 9/2014 Mege
2014/0263674 A1 9/2014 Cervený
2014/0263675 A1 9/2014 Beadles
2014/0281855 A1 9/2014 Bhatnagar
2015/0008257 A1 1/2015 Beadles
2015/0161496 A1 6/2015 Rodriguez et al.
2015/0199601 A1 7/2015 Bienek
2015/0213734 A1 7/2015 Glickman
2015/0229603 A1 8/2015 Chor
2015/0269466 A1 9/2015 Inotay et al.
2015/0269469 A1 9/2015 Sharma et al.
2015/0363683 A1 12/2015 Polzoni
2016/0086072 A1 3/2016 Castillo
2016/0140428 A1 5/2016 Kamitani et al.
2016/0155033 A1 6/2016 Nakano et al.
2016/0180131 A1 6/2016 Seo et al.
2017/0235977 A1 8/2017 Nadabar et al.
2018/0025263 A1 1/2018 Toyozumi et al.
2018/0137323 A1 5/2018 Jiang et al.
2018/0157813 A1 6/2018 Rodriqs et al.

* cited by examiner

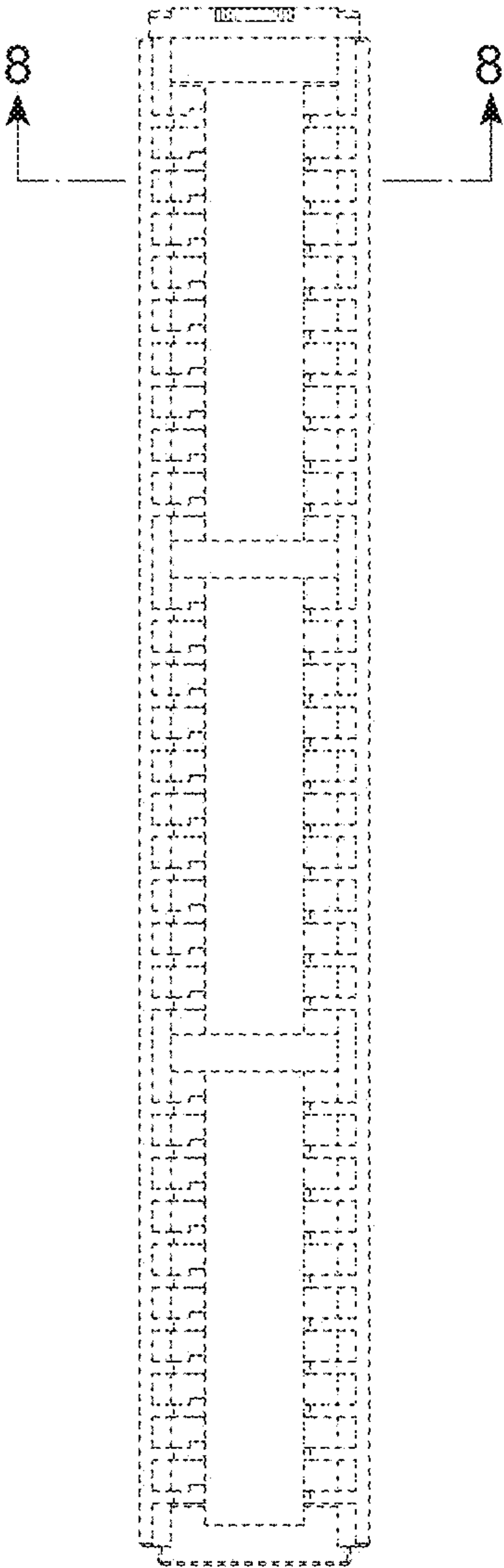


FIG. 1

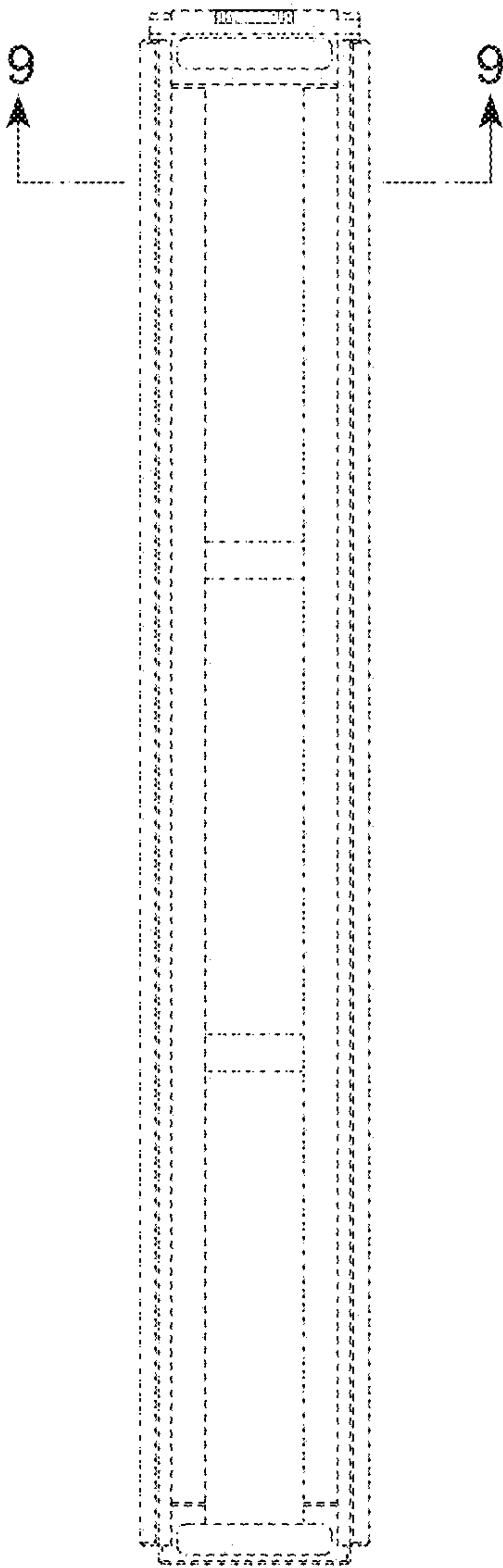


FIG. 2

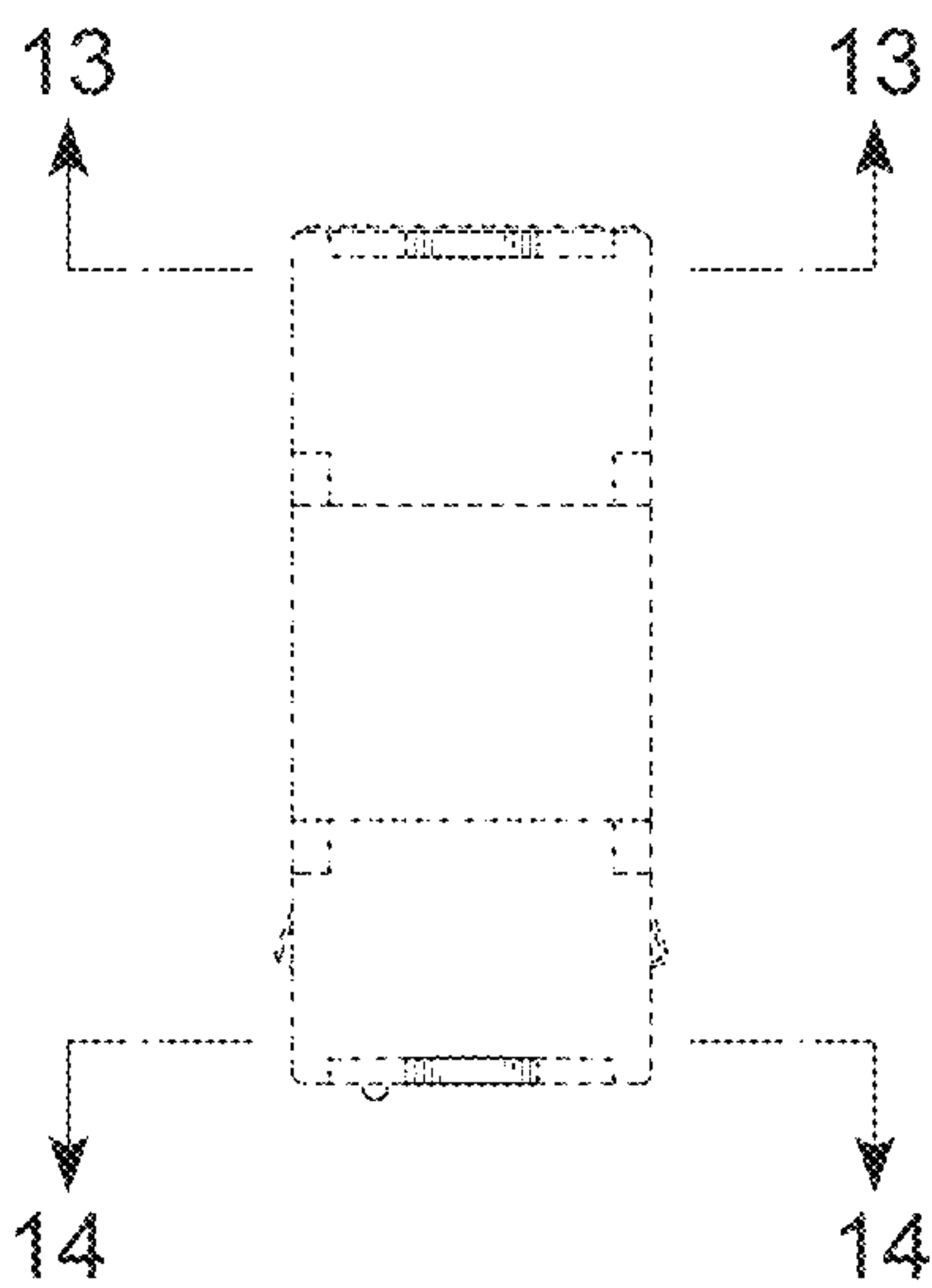


FIG. 3

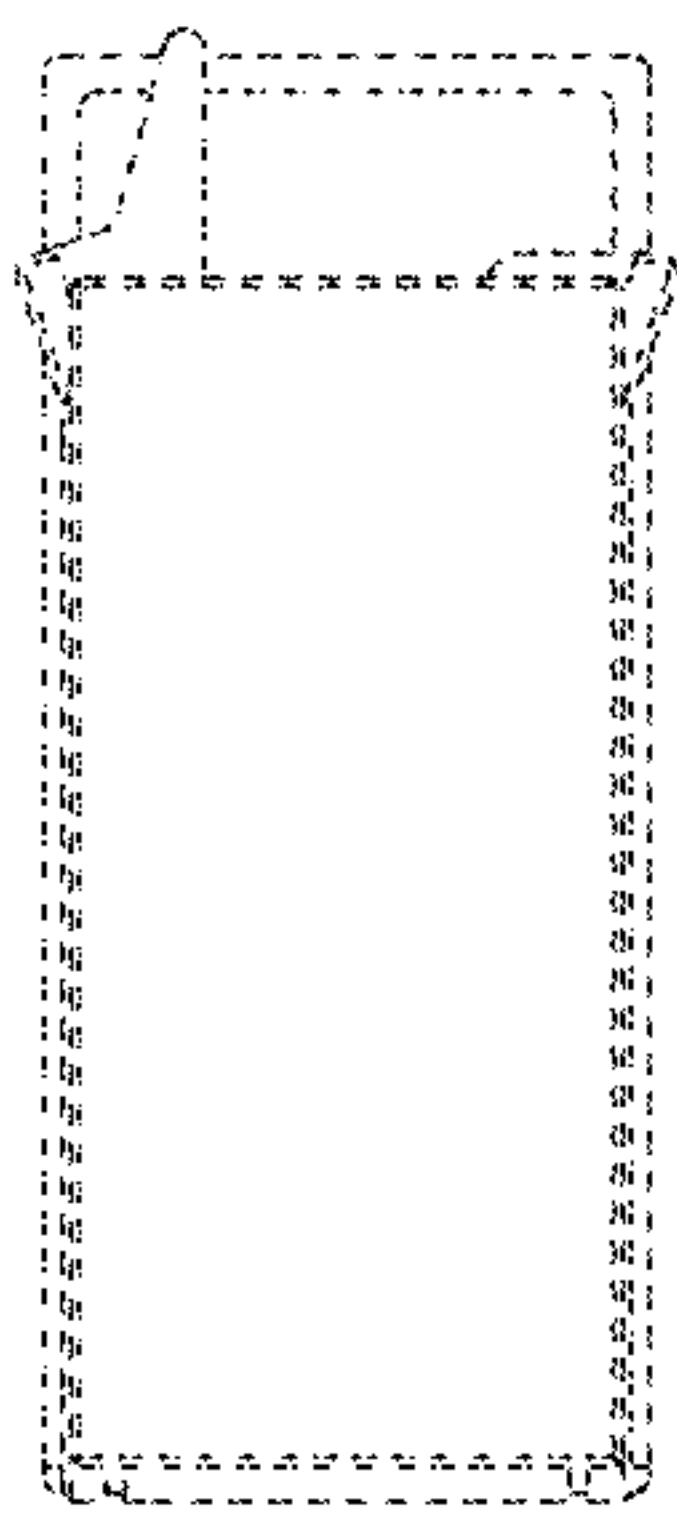


FIG. 4

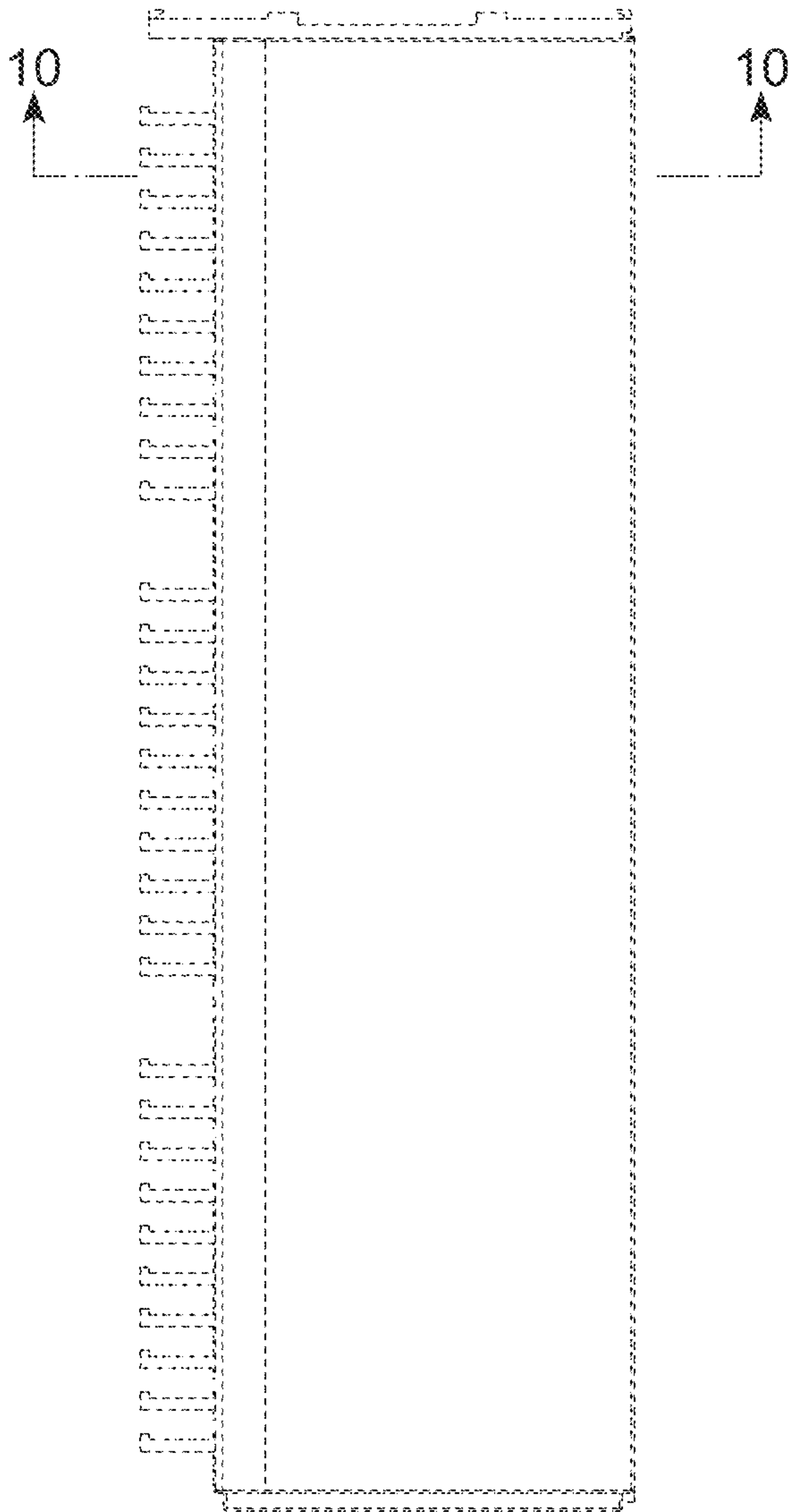


FIG. 5

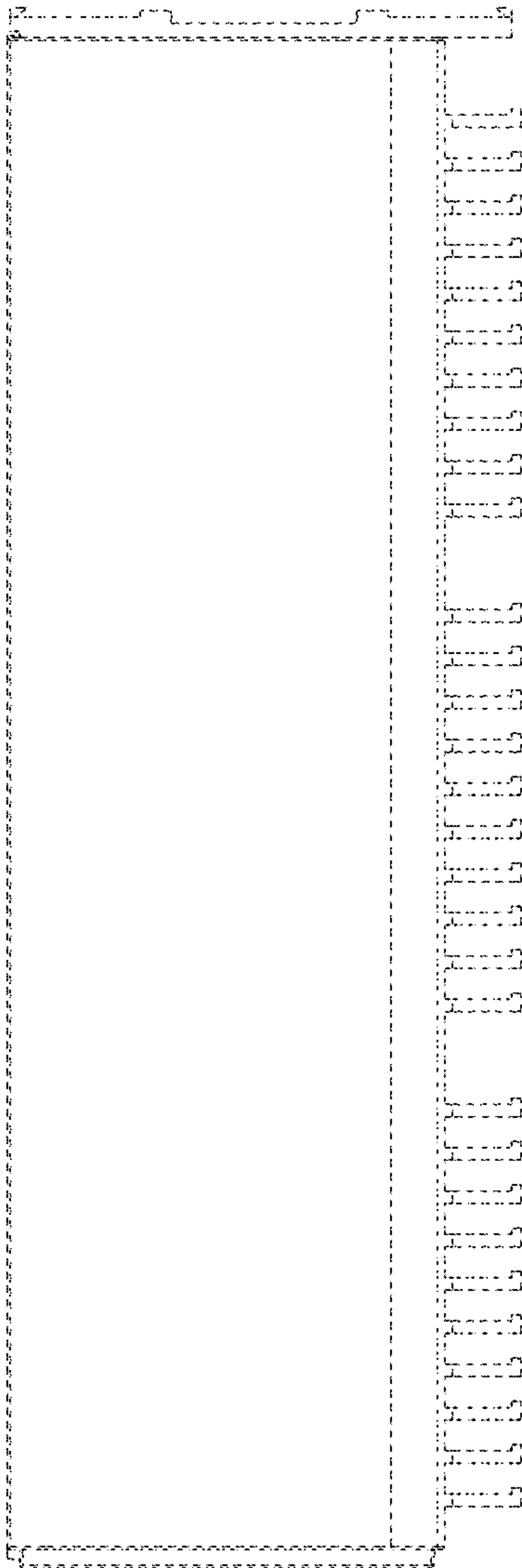


FIG. 6

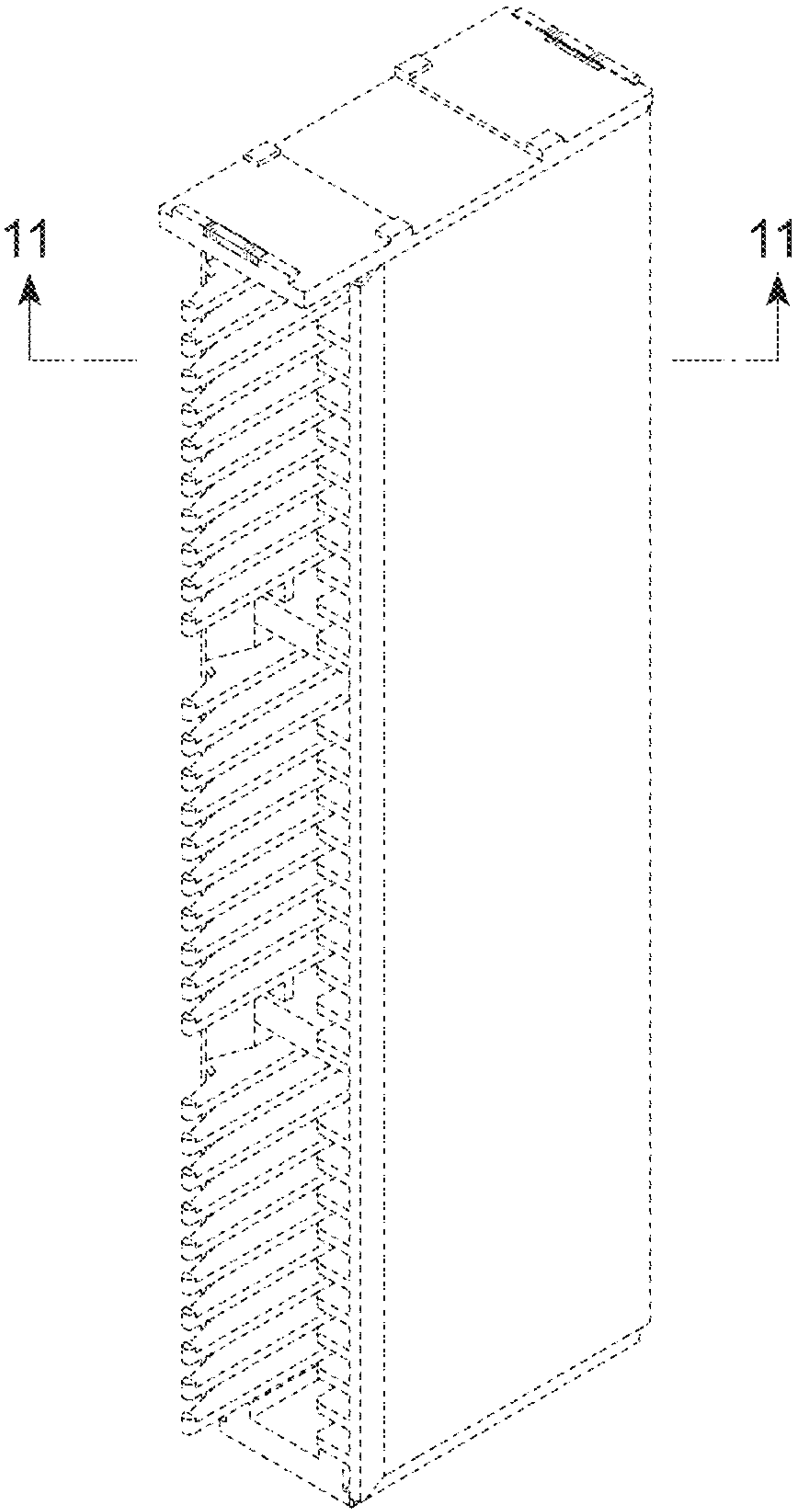


FIG. 7

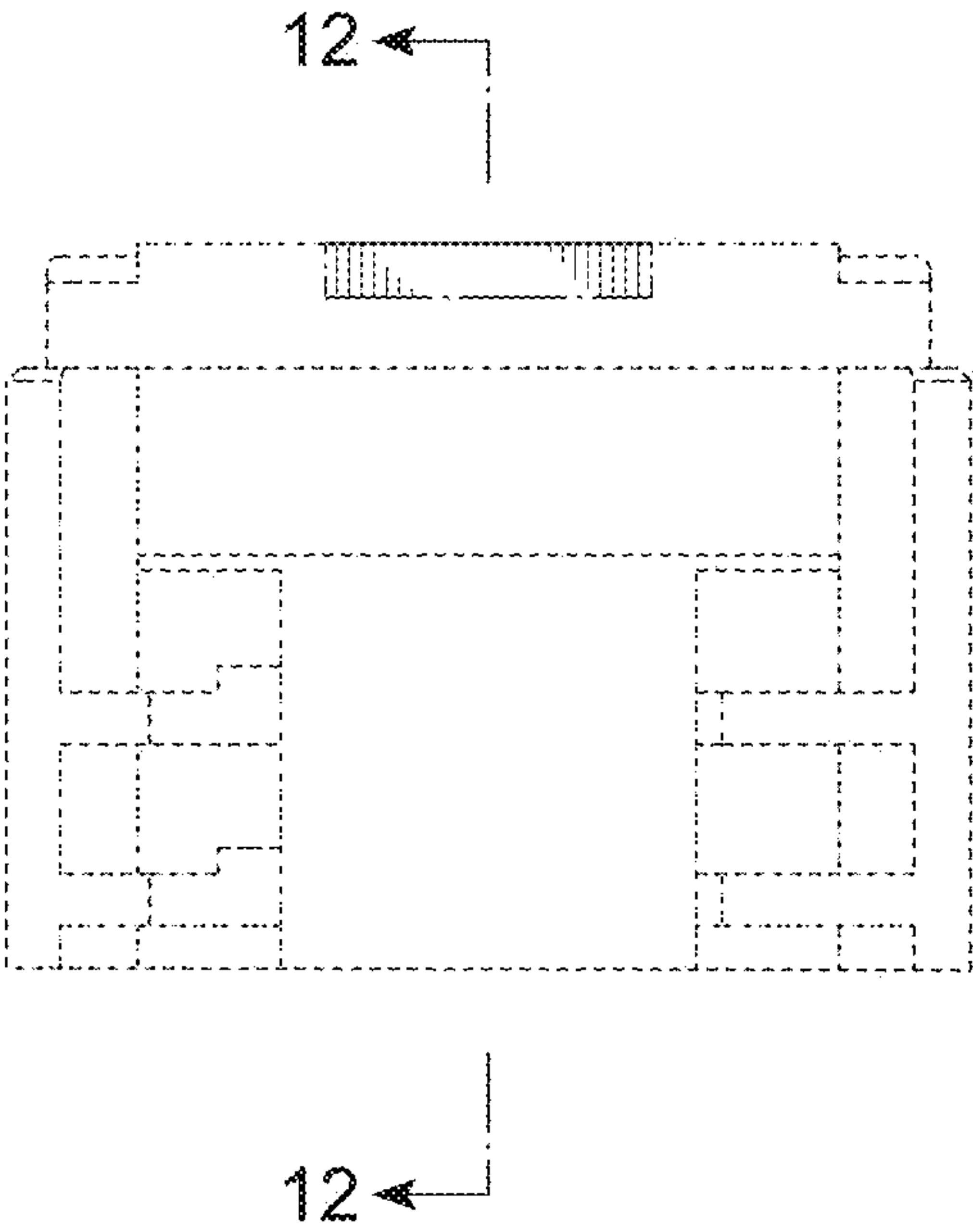


FIG. 8

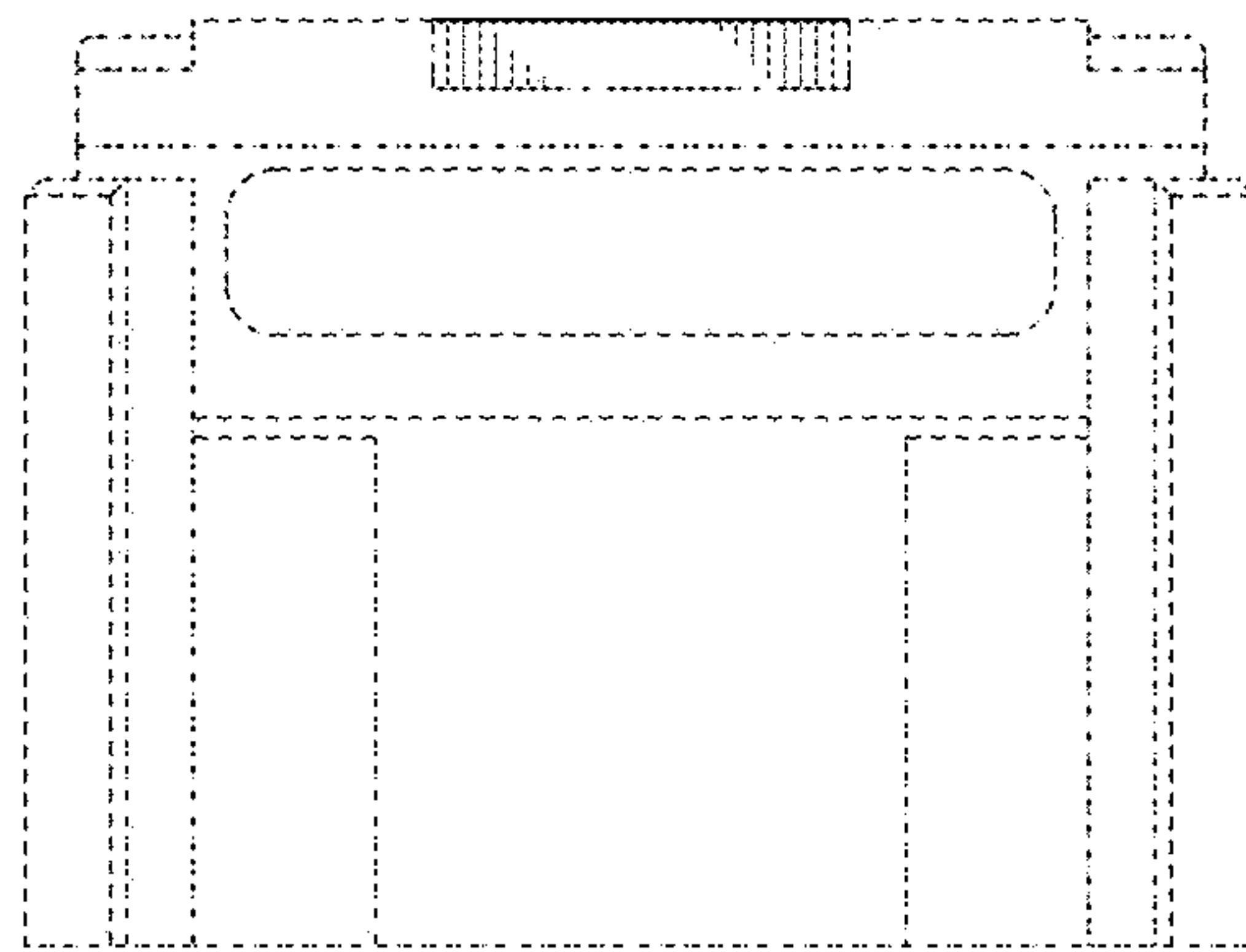


FIG. 9

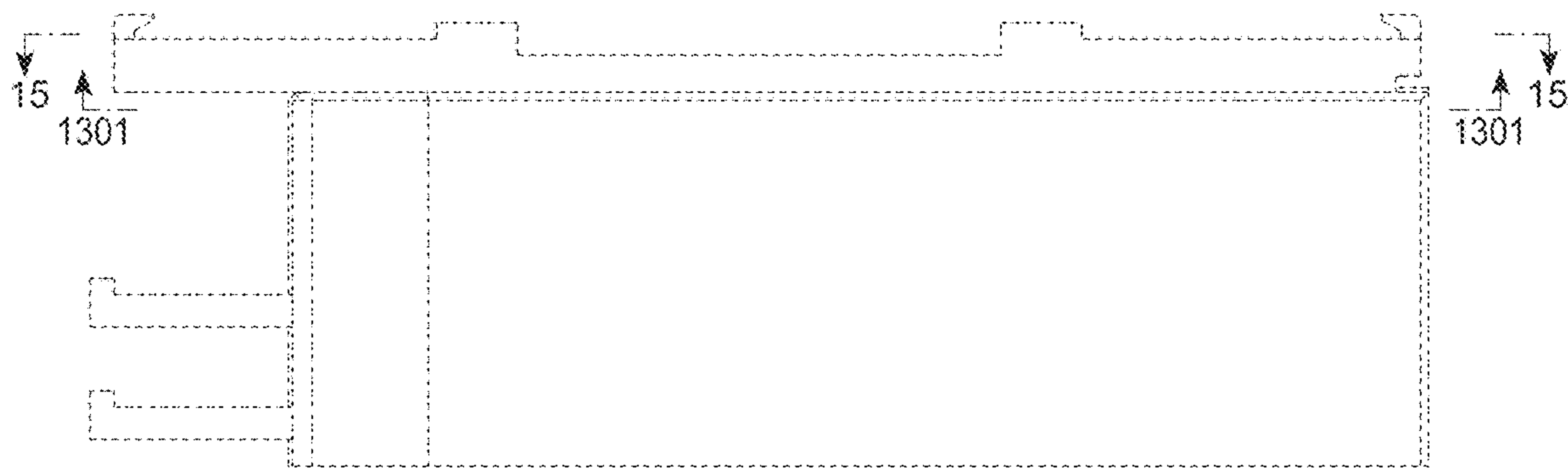


FIG. 10

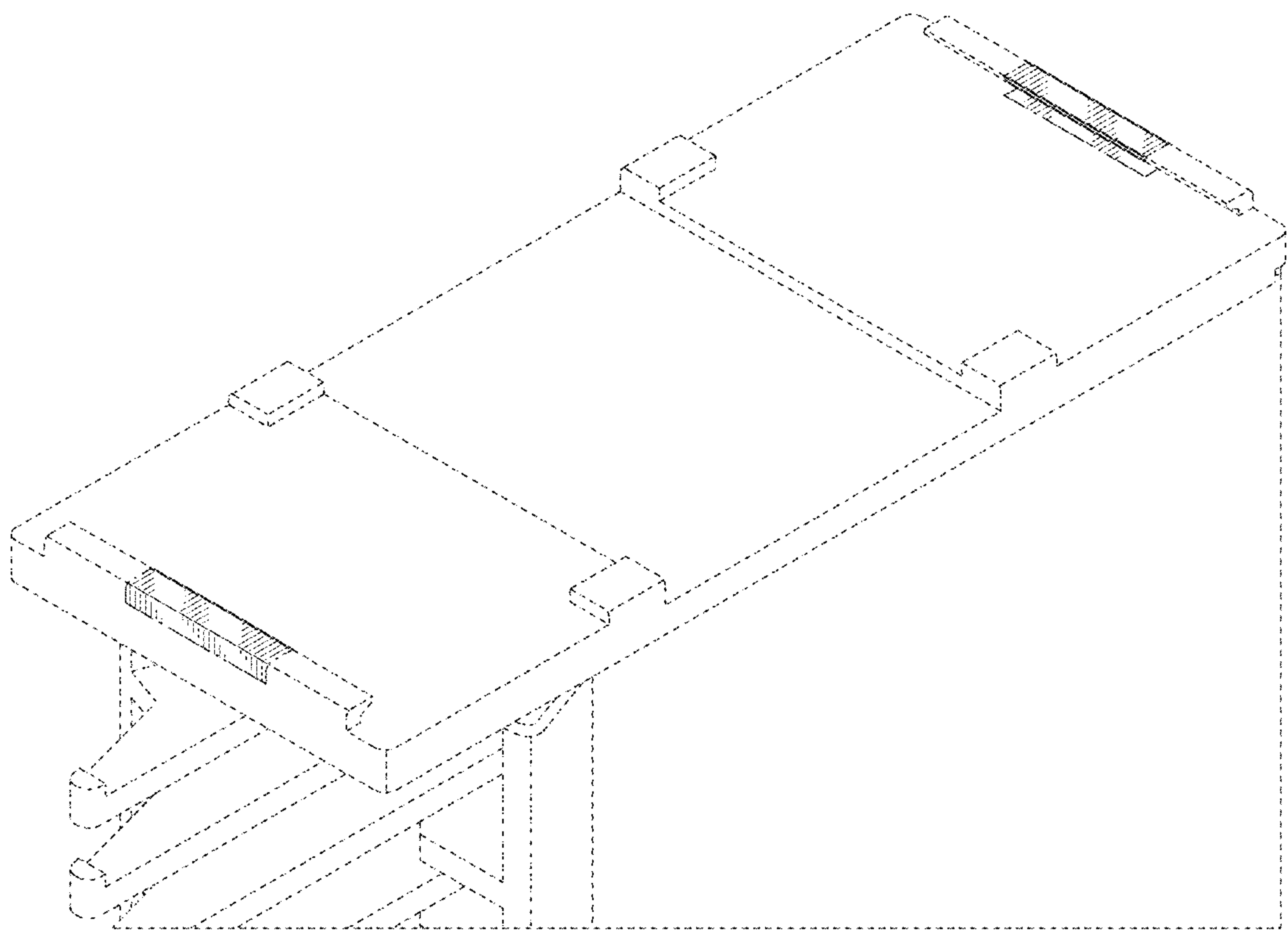


FIG. 11

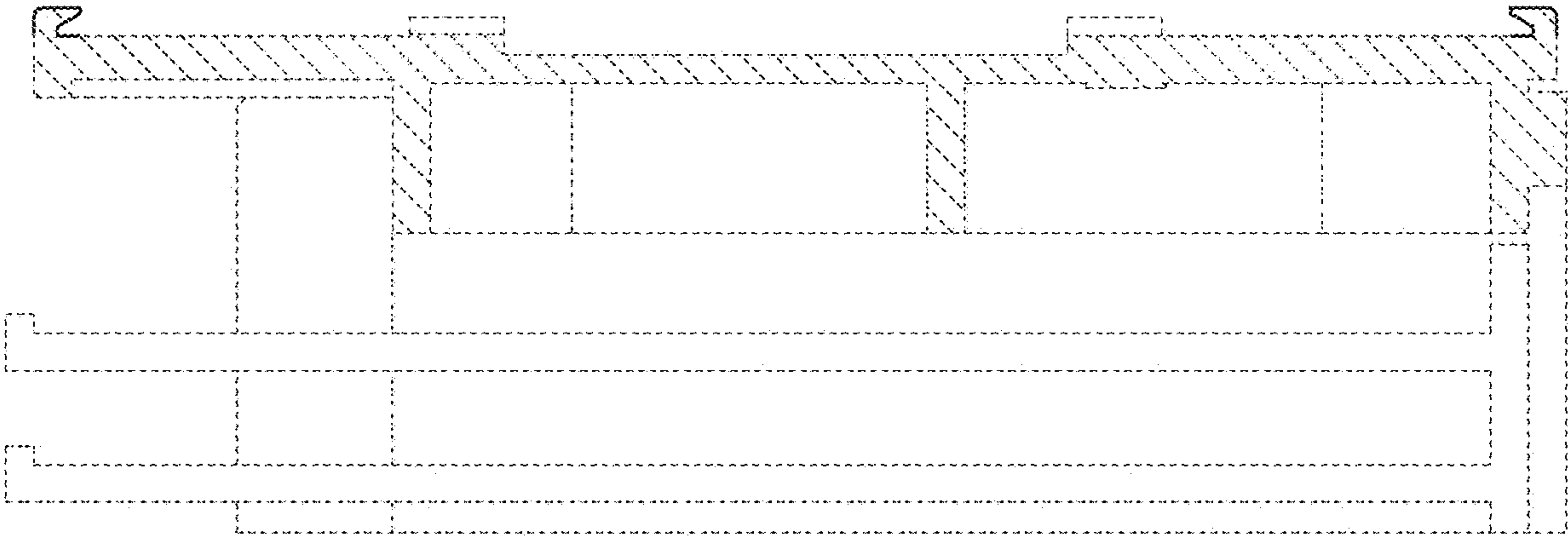


FIG. 12

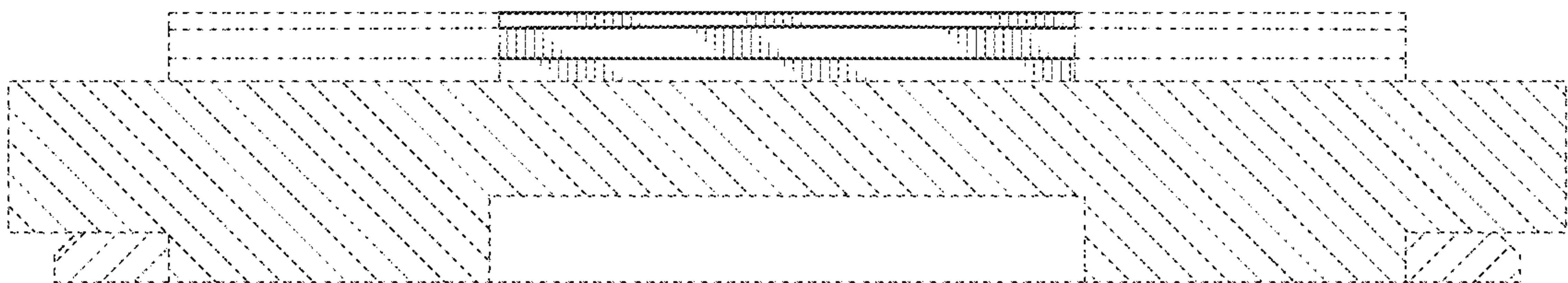


FIG. 13

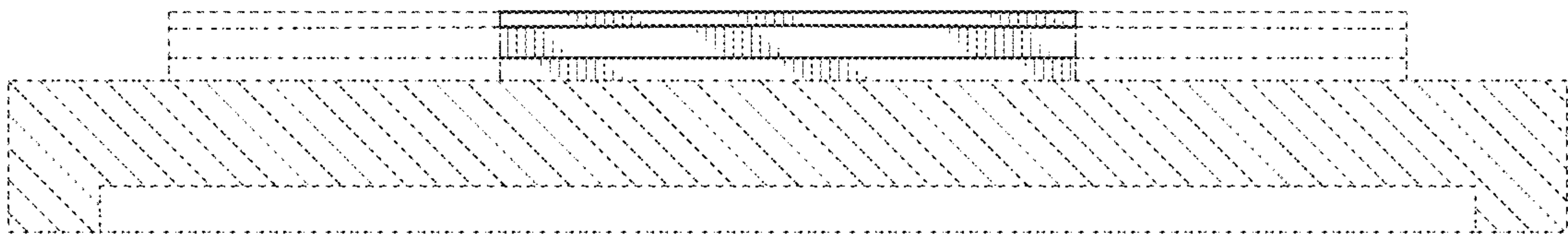


FIG. 14

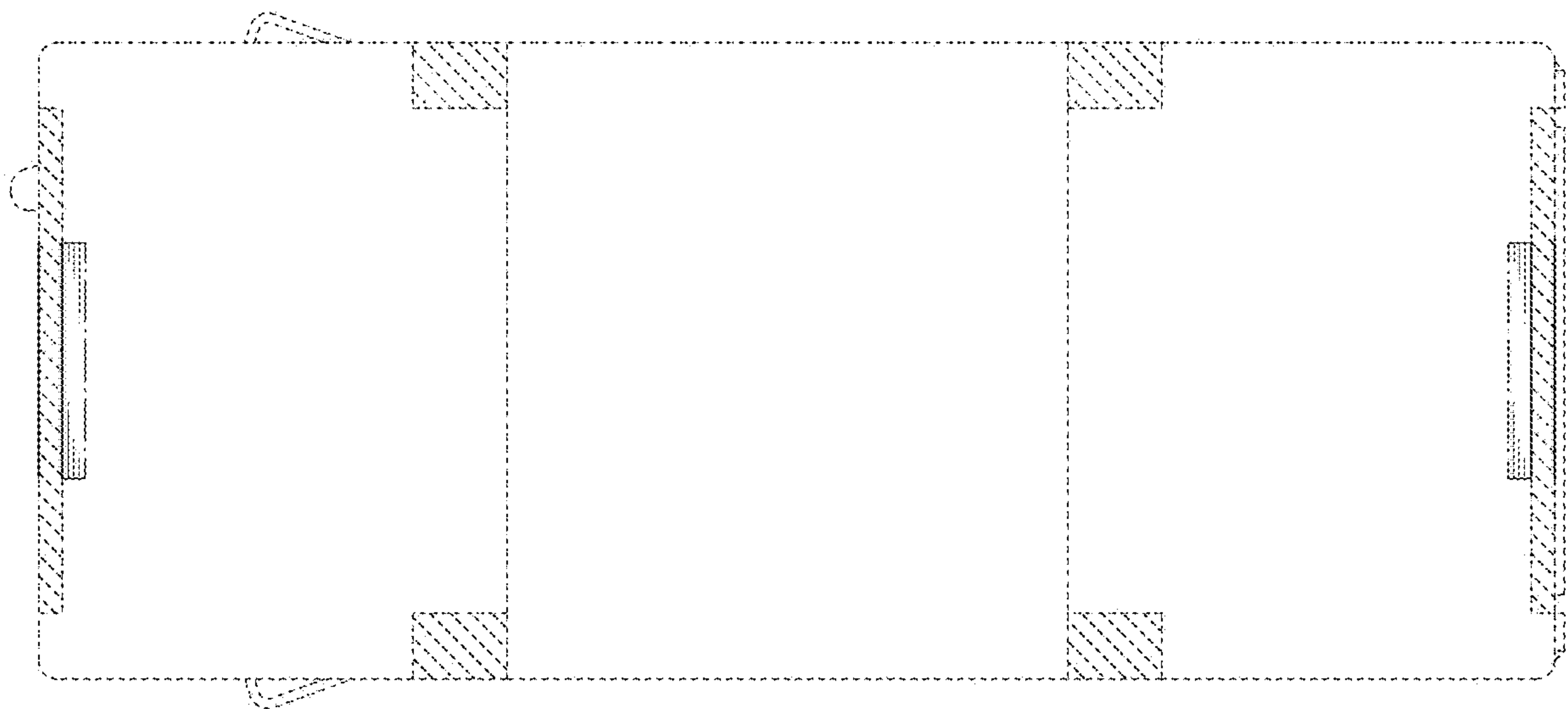


FIG. 15