



US00D949010S

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

(10) **Patent No.: US D949,010 S**  
(45) **Date of Patent: \*\* Apr. 19, 2022**

- (54) **TAMPER EVIDENT BAG SEAL**
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- (73) Assignee: **Inno-Pak, LLC**, Delaware, OH (US)
- (\*\*) Term: **15 Years**
- (21) Appl. No.: **29/707,037**
- (22) Filed: **Sep. 25, 2019**
- (51) **LOC (13) Cl.** ..... **09-03**
- (52) **U.S. Cl.**  
USPC ..... **D9/433**
- (58) **Field of Classification Search**  
USPC ..... D3/20, 202, 203, 203.2, 203.6, 203.7,  
D3/207, 242, 318; D9/414-423,  
(Continued)

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 1,410,404 A \* 3/1922 Haines ..... B65D 33/08  
383/10
- 1,537,956 A 5/1925 Meyers  
(Continued)

**FOREIGN PATENT DOCUMENTS**

- CN 2347943 Y 11/1999
- DE 2733041 A1 2/1978  
(Continued)

**OTHER PUBLICATIONS**

Inno-Pak Handle Cuffs: Announced Aug. 24, 2020 [online]. Site visited [Oct. 20, 2021]. Available from Internet URL: <https://www.innopak.com/products/handle-cuffs/>.\*

(Continued)

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Ryan K. Simmons

(57) **CLAIM**

The ornamental design for a tamper evident bag seal, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a tamper evident bag seal showing a new design;  
 FIG. 2 is a top plan view thereof;  
 FIG. 3 is bottom plan view thereof;  
 FIG. 4 is another perspective view of the tamper evident bag seal of FIG. 1 shown as installed on a bag in a sealed configuration;  
 FIG. 5 is a front elevation view thereof;  
 FIG. 6 is a rear elevation view thereof;  
 FIG. 7 is a right side elevation view thereof;  
 FIG. 8 is a left side elevation view thereof;  
 FIG. 9 is a top plan view thereof;  
 FIG. 10 is another perspective view of the tamper evident bag seal of FIG. 1 shown as installed on a bag in an unsealed or tampered evident configuration;  
 FIG. 11 is a front elevation view thereof;  
 FIG. 12 is a rear elevation view thereof;  
 FIG. 13 is a right side elevation view thereof;  
 FIG. 14 is a left side elevation view thereof;  
 FIG. 15 is a top plan view thereof;  
 FIG. 16 is a perspective view of a tamper evident bag seal showing an alternate embodiment;  
 FIG. 17 is a top plan view thereof;  
 FIG. 18 is bottom plan view thereof;  
 FIG. 19 is another perspective view of the tamper evident bag seal of FIG. 16 shown as installed on a bag in a sealed configuration;  
 FIG. 20 is a front elevation view thereof;  
 FIG. 21 is a rear elevation view thereof;  
 FIG. 22 is a right side elevation view thereof;  
 FIG. 23 is a left side elevation view thereof;  
 FIG. 24 is a top plan view thereof;  
 FIG. 25 is another perspective view of the tamper evident bag seal of FIG. 16 shown as installed on a bag in an unsealed or tampered evident configuration;

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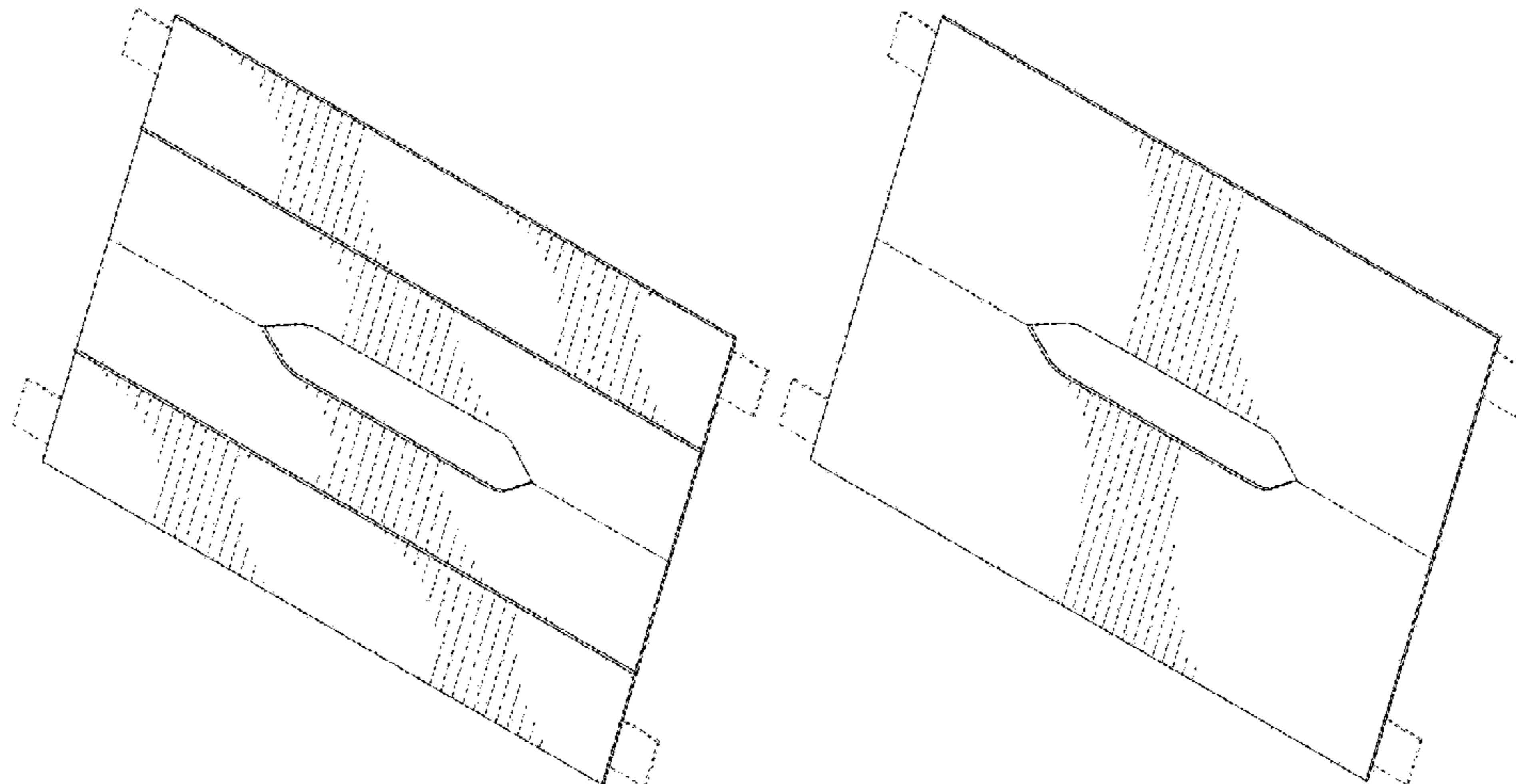


FIG. 26 is a front elevation view thereof;  
 FIG. 27 is a rear elevation view thereof;  
 FIG. 28 is a right side elevation view thereof;  
 FIG. 29 is a left side elevation view thereof; and,  
 FIG. 30 is a top plan view thereof.

In the drawings the evenly broken lines are shown for the purpose of illustrating both parts of the article as well as environmental subject matter of an exemplary bag, none of which form part of the claim. The dot-dash lines represent the boundaries of the claim and form no part thereof. In FIGS. 1, 2, 3, 16, 17, and 18, the tab features protruding from the side edges of the article and rendered in evenly broken lines show features removed for installation of the article onto the exemplary bag and form no part of the claim.

**1 Claim, 28 Drawing Sheets**

(58) **Field of Classification Search**

USPC ..... D9/430-433, 434, 443, 456, 457, 711,  
 D9/713, 721-722, 737, 756, 758, 759,  
 D9/760; D20/10, 11, 22, 23, 27, 28, 40,  
 D20/42, 44  
 CPC ..... B65D 5/54; B65D 5/4212; B65D 5/4608;  
 B65D 5/60; B65D 2203/00; B65D 5/00;  
 B65D 5/02; B65D 5/18; B65D 5/20;  
 B65D 5/22; B65D 5/4245; B65D 43/153;  
 B65D 43/22; B65D 81/264; B65D 33/18;  
 B65D 33/08; B65D 33/12; B65D  
 2401/15; B65D 17/4014; B65D 17/0014;  
 B65D 17/0025; B65D 17/0044; B65D  
 23/10; A45D 33/18; A45D 34/00; A45D  
 2034/007; A45D 2040/0012; A01N  
 1/0263; A47J 45/077; A47J 45/07; A63H  
 27/001

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,792,885	A	2/1931	Andrews	
2,050,967	A	8/1936	Farmer	
2,128,196	A	8/1938	Max	
2,149,030	A	2/1939	Arlington	
2,693,836	A	11/1954	Hayes	
2,846,134	A	8/1958	Esber	
2,934,255	A	4/1960	McDuffie	
3,203,621	A	8/1965	Wright	
D205,970	S *	10/1966	Leifeld	D9/414
3,770,188	A	11/1973	Bressickello	
D229,485	S *	12/1973	Petersen	D9/416
3,811,613	A	5/1974	Harrison	
D233,083	S *	10/1974	Rosa	D20/40
4,243,171	A	1/1981	Prin	
4,276,982	A	7/1981	Sibrava et al.	
D277,555	S *	2/1985	Pattillo	D9/434
4,723,300	A	2/1988	Aranow	
4,790,670	A	12/1988	Barbaro	
4,955,981	A	9/1990	Provost	

5,035,515	A	7/1991	Crossman et al.	
5,096,113	A	3/1992	Focke	
5,226,941	A	7/1993	Uibel et al.	
D372,864	S *	8/1996	Hansen	D9/434
5,608,949	A	3/1997	Cooley et al.	
5,711,751	A	1/1998	Harmanoglu	
5,824,380	A	10/1998	Hagen	
5,881,432	A *	3/1999	Good	A45F 5/10 16/426
D438,797	S *	3/2001	Bozlee	D9/434
D442,085	S *	5/2001	Bozlee	D9/434
6,286,681	B1	9/2001	Wilfong et al.	
D451,389	S *	12/2001	Bozlee	D9/434
6,361,209	B1	3/2002	LaRue et al.	
D462,904	S *	9/2002	Mellon	D9/434
D501,134	S	1/2005	Takahashi et al.	
D502,872	S *	3/2005	Fleming	D9/434
6,913,389	B2	7/2005	Kannankeril et al.	
7,004,632	B2	2/2006	Hamilton et al.	
7,090,272	B2 *	8/2006	Novakovich	A45F 5/1046 294/137
7,427,161	B2	9/2008	Sill et al.	
8,033,447	B2	10/2011	Katoh	
D739,766	S	9/2015	Glass et al.	
9,434,513	B2	9/2016	Lux et al.	
9,630,748	B2	4/2017	Keller	
D786,976	S *	5/2017	Keating	D20/27
D801,826	S	11/2017	O'Connor et al.	
D811,896	S	3/2018	Wigman et al.	
D812,490	S	3/2018	Wigman et al.	
D821,223	S	6/2018	Tan	
D826,043	S *	8/2018	Dacey	D9/433
D828,763	S	9/2018	Tan	
D830,849	S	10/2018	Tan	
10,259,616	B2	4/2019	Korinek et al.	
D860,807	S	9/2019	Sill	
2005/0041894	A1	2/2005	Hanson	
2005/0047686	A1	3/2005	Elsaesser	
2006/0045390	A1 *	3/2006	Sill	B65D 33/246 383/6
2006/0196787	A1	9/2006	Lewis	
2007/0292053	A1	12/2007	Lin et al.	
2013/0315507	A1	11/2013	Vidal et al.	
2015/0360821	A1	12/2015	Greenwood et al.	
2019/0112116	A1	4/2019	Su et al.	
2021/0086950	A1 *	3/2021	Sill	B65D 33/18

FOREIGN PATENT DOCUMENTS

DE	29500157	U1	2/1995
DE	19831584	A1	1/2000
DE	10-2009-007985	A1	2/2010
EP	0 515 086	A1	11/1992
FR	2838406	A1	10/2003
GB	487330	A	6/1938
JP	2017-061324	A	3/2017
NL	1040069	C2	8/2014
WO	2004071890	A1	8/2004

OTHER PUBLICATIONS

International Search Report and Witten Opinion from International Application No. PCT/US2019/030891, dated Jul. 26, 2019, 13 pages.

\* cited by examiner

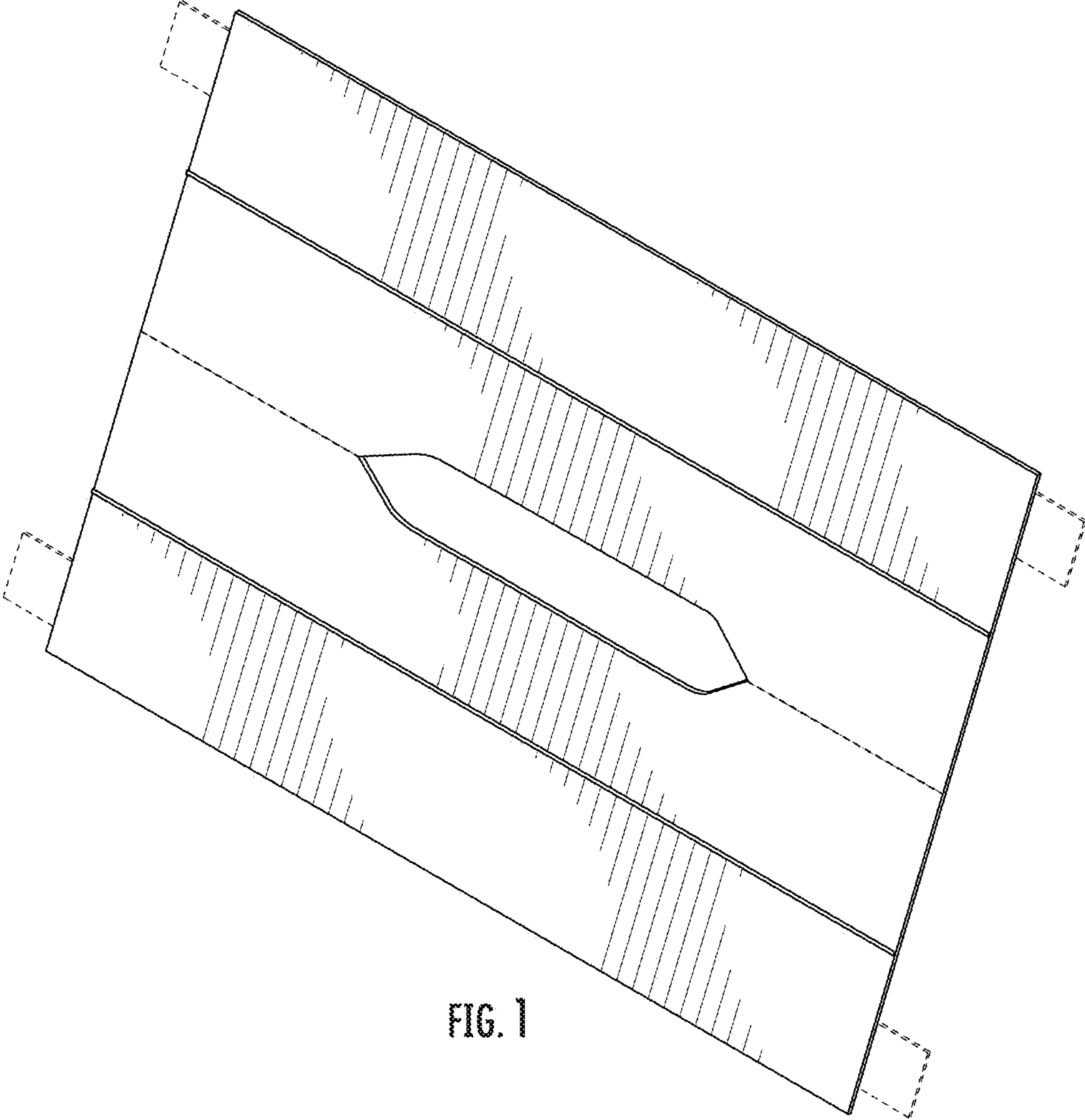


FIG. 1

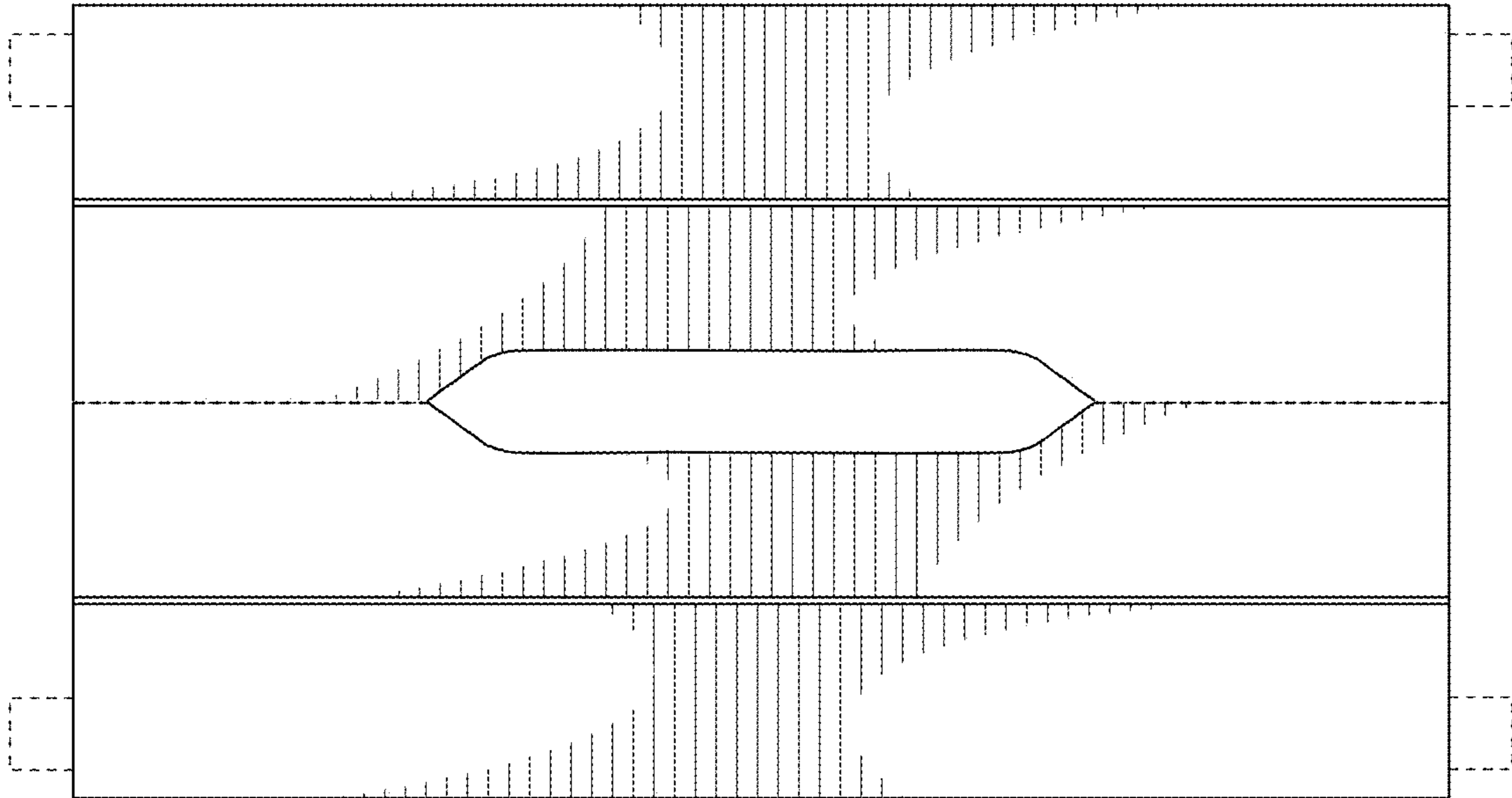


FIG. 2

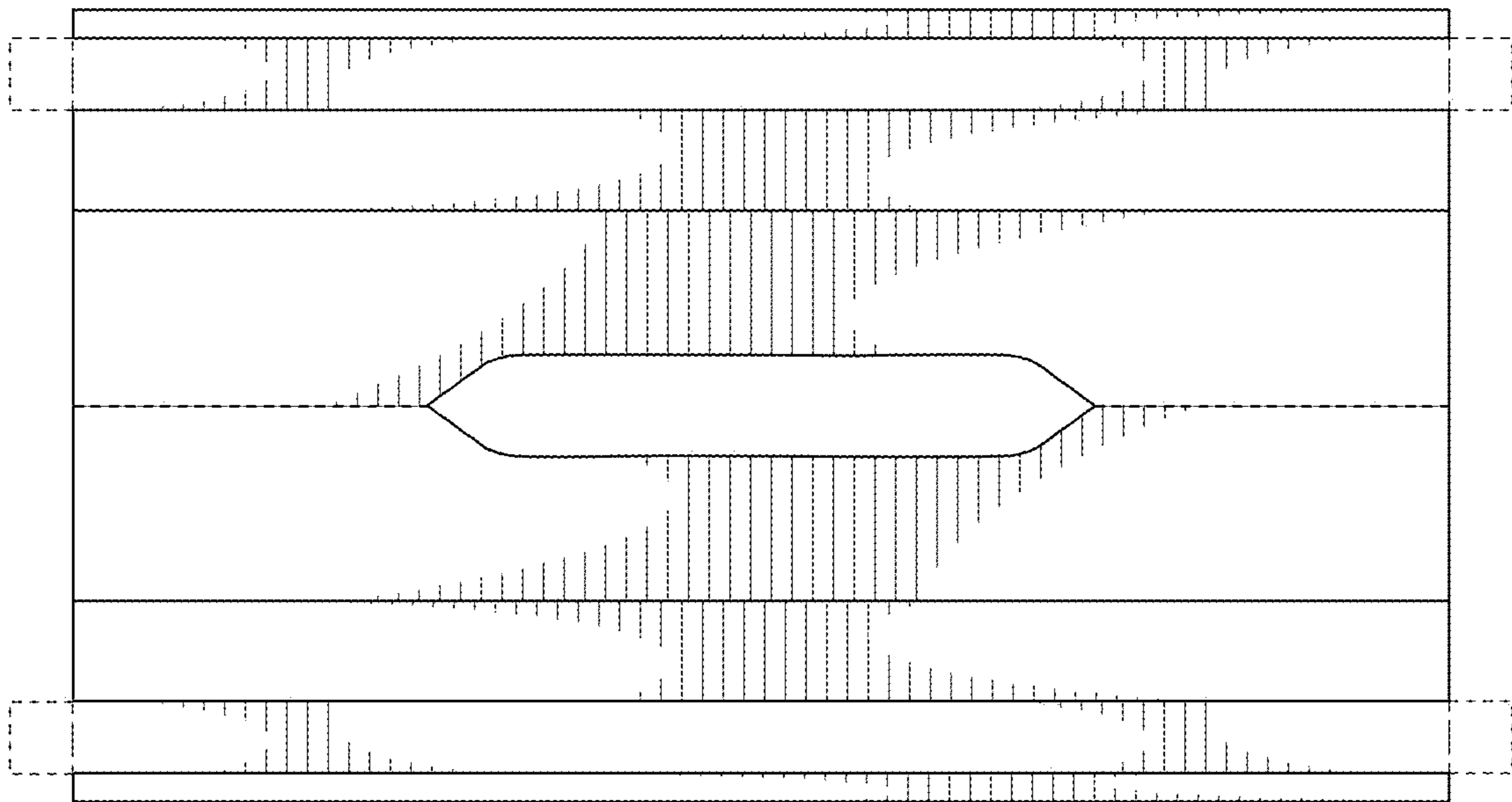


FIG. 3

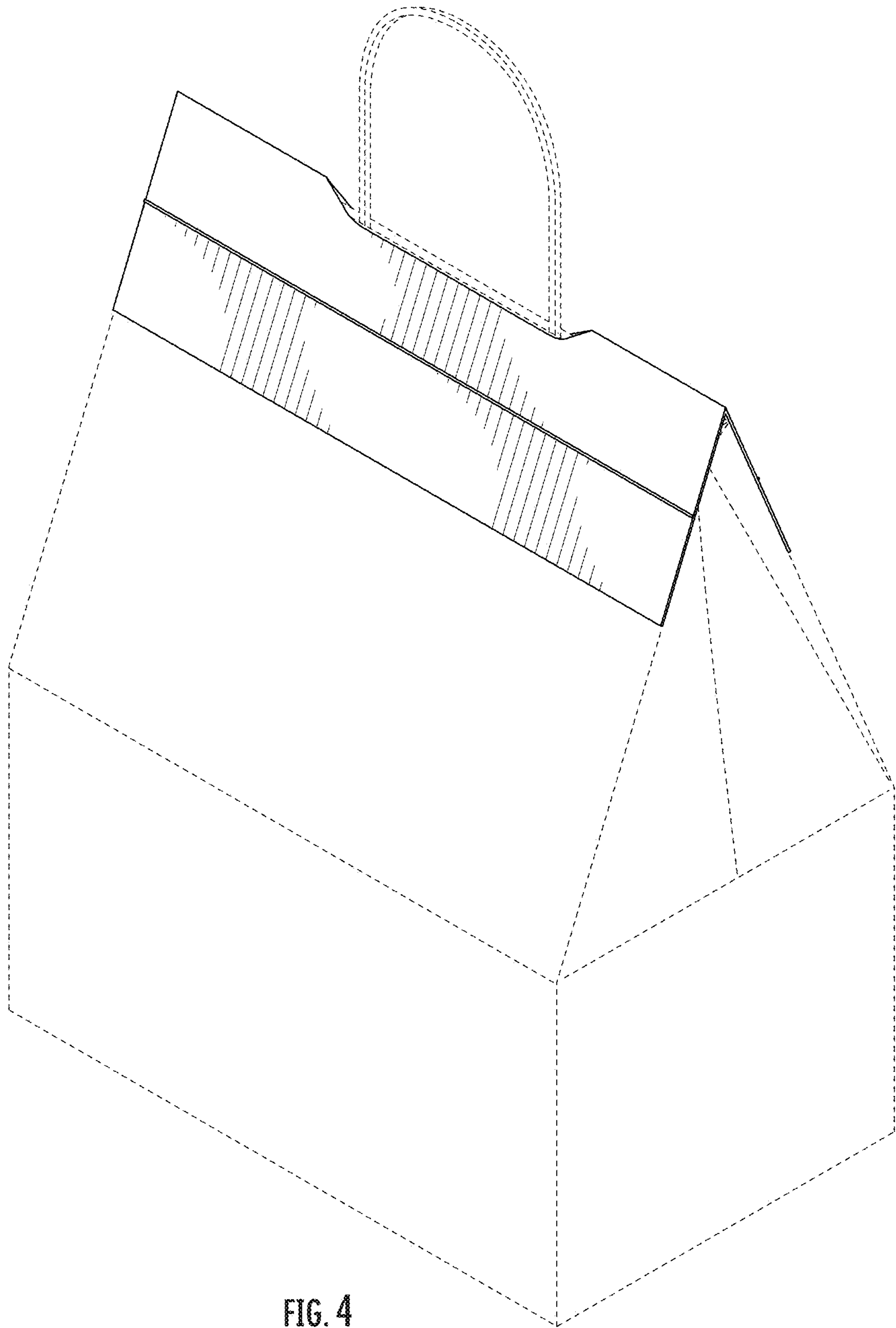


FIG. 4

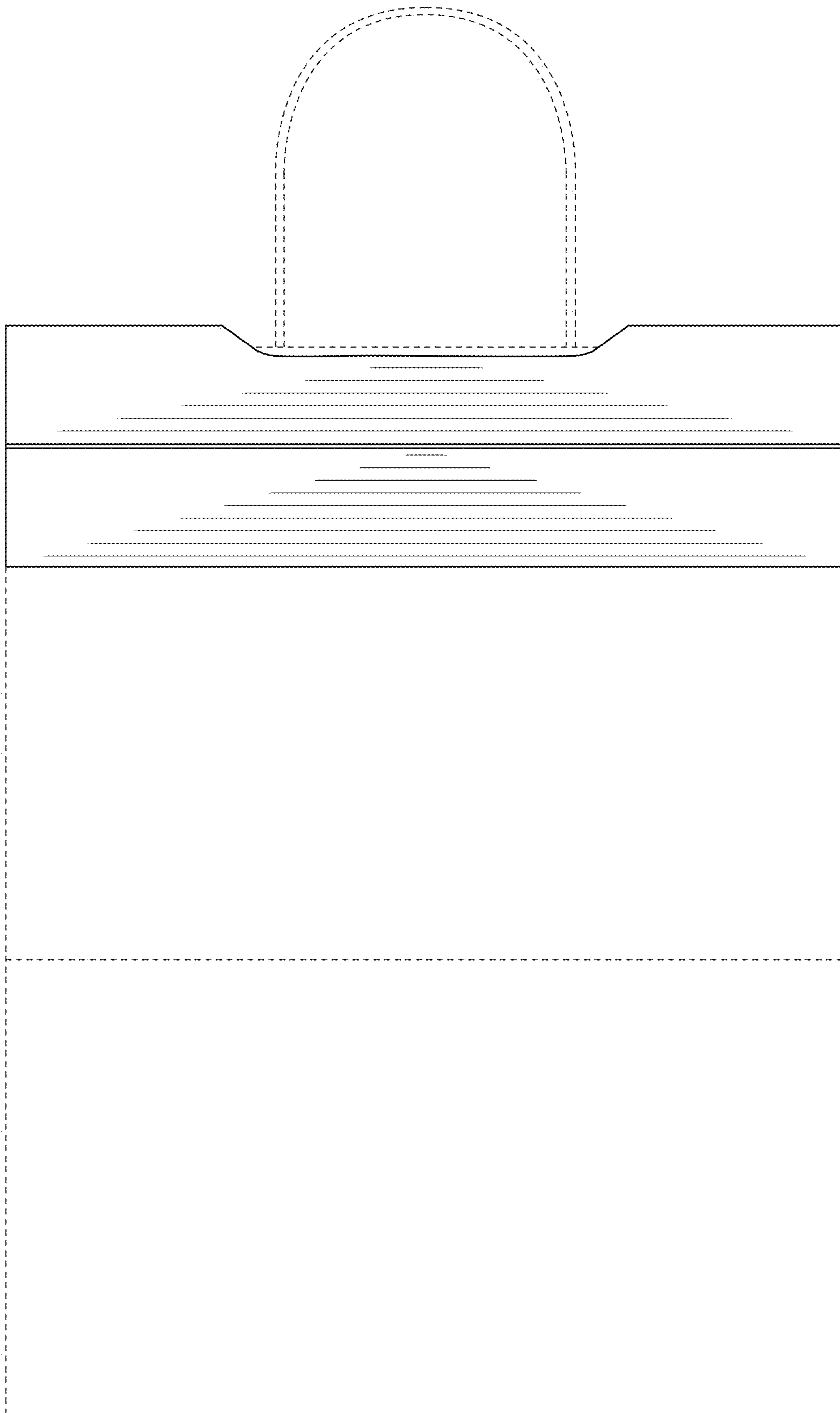


FIG. 5

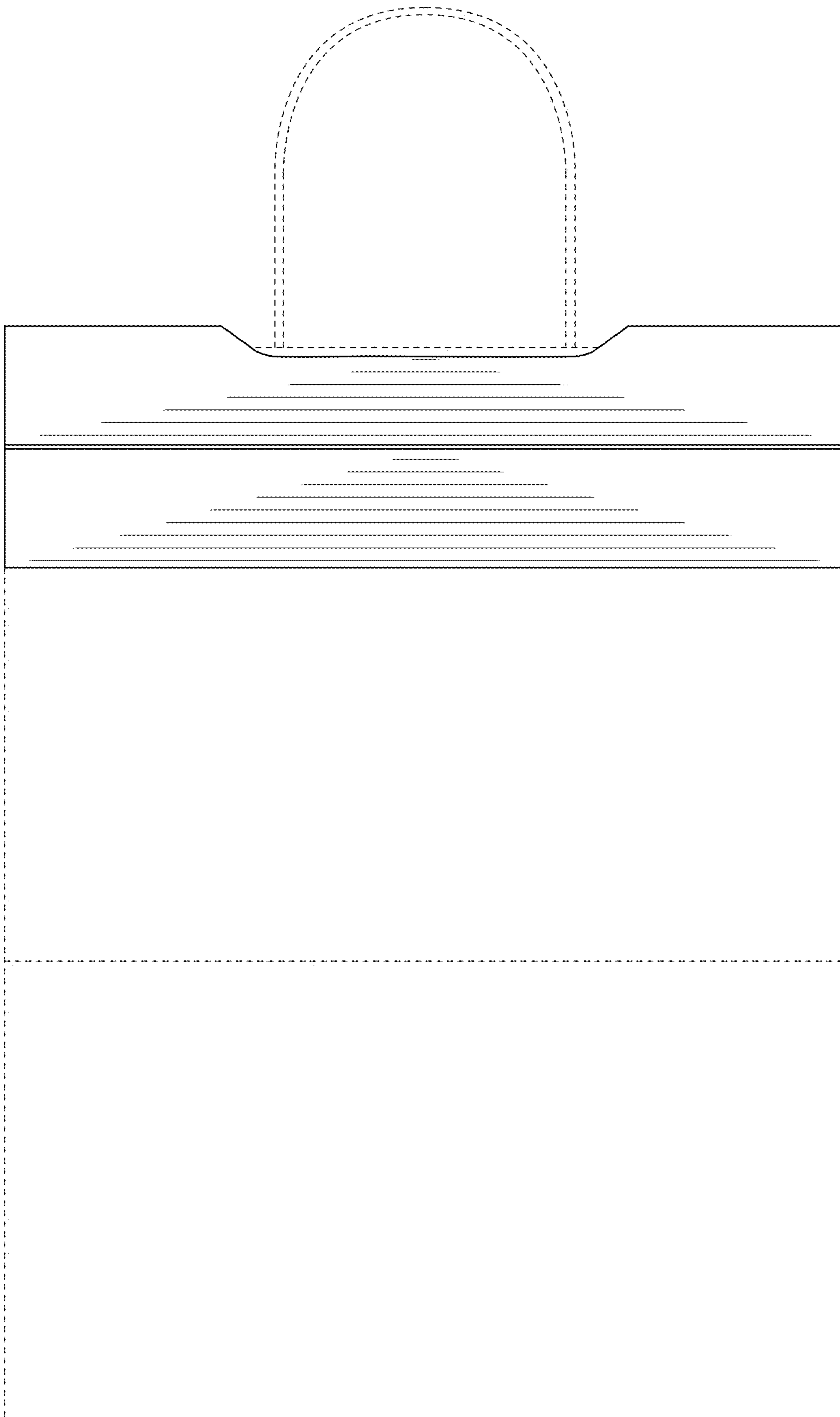


FIG. 6

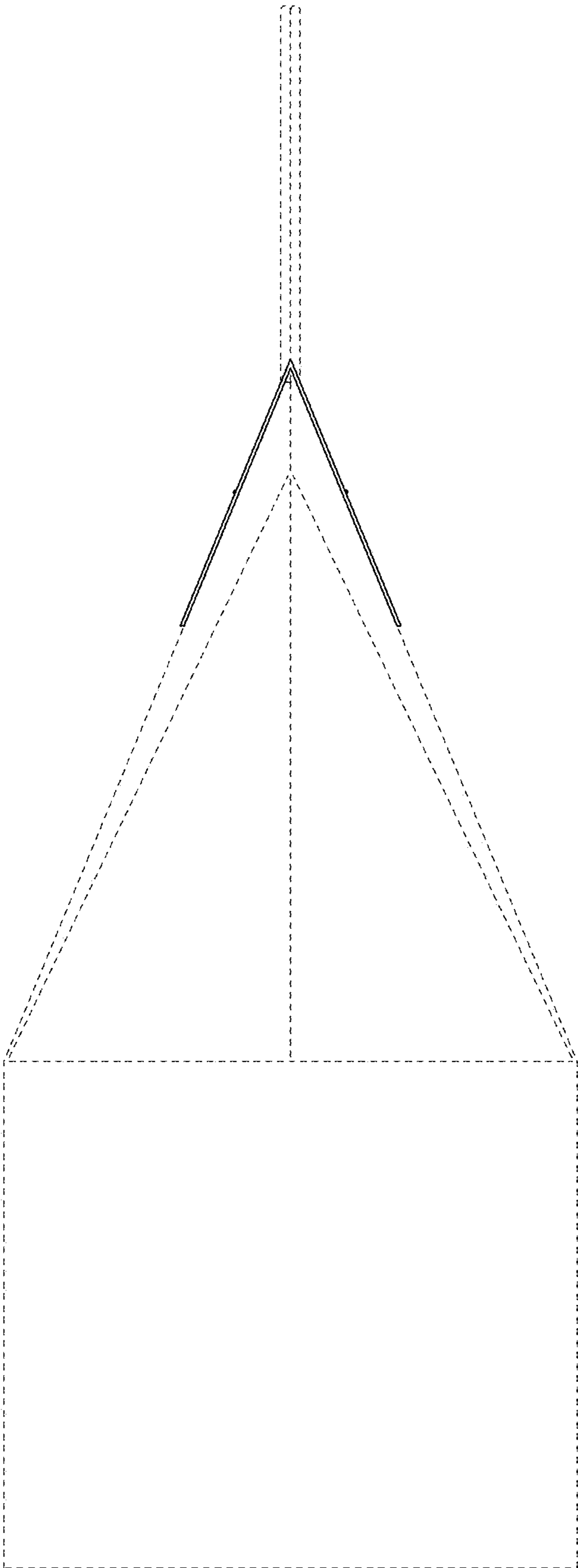


FIG. 7



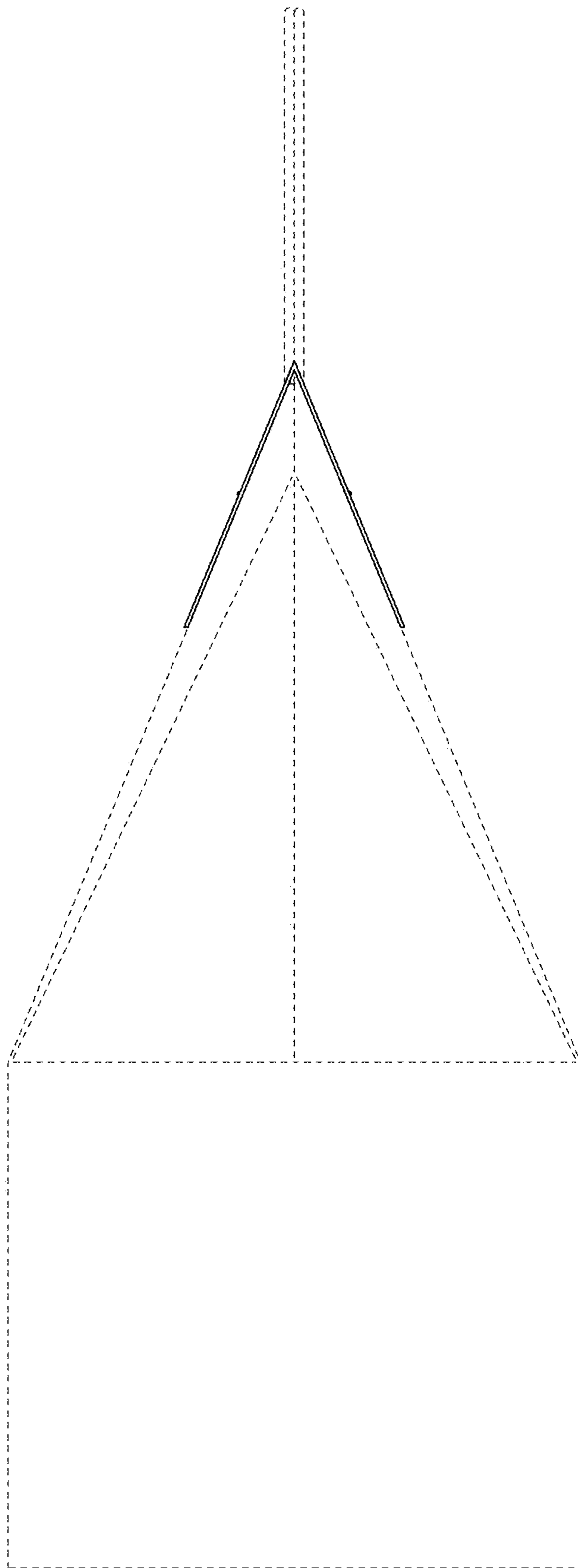


FIG. 8

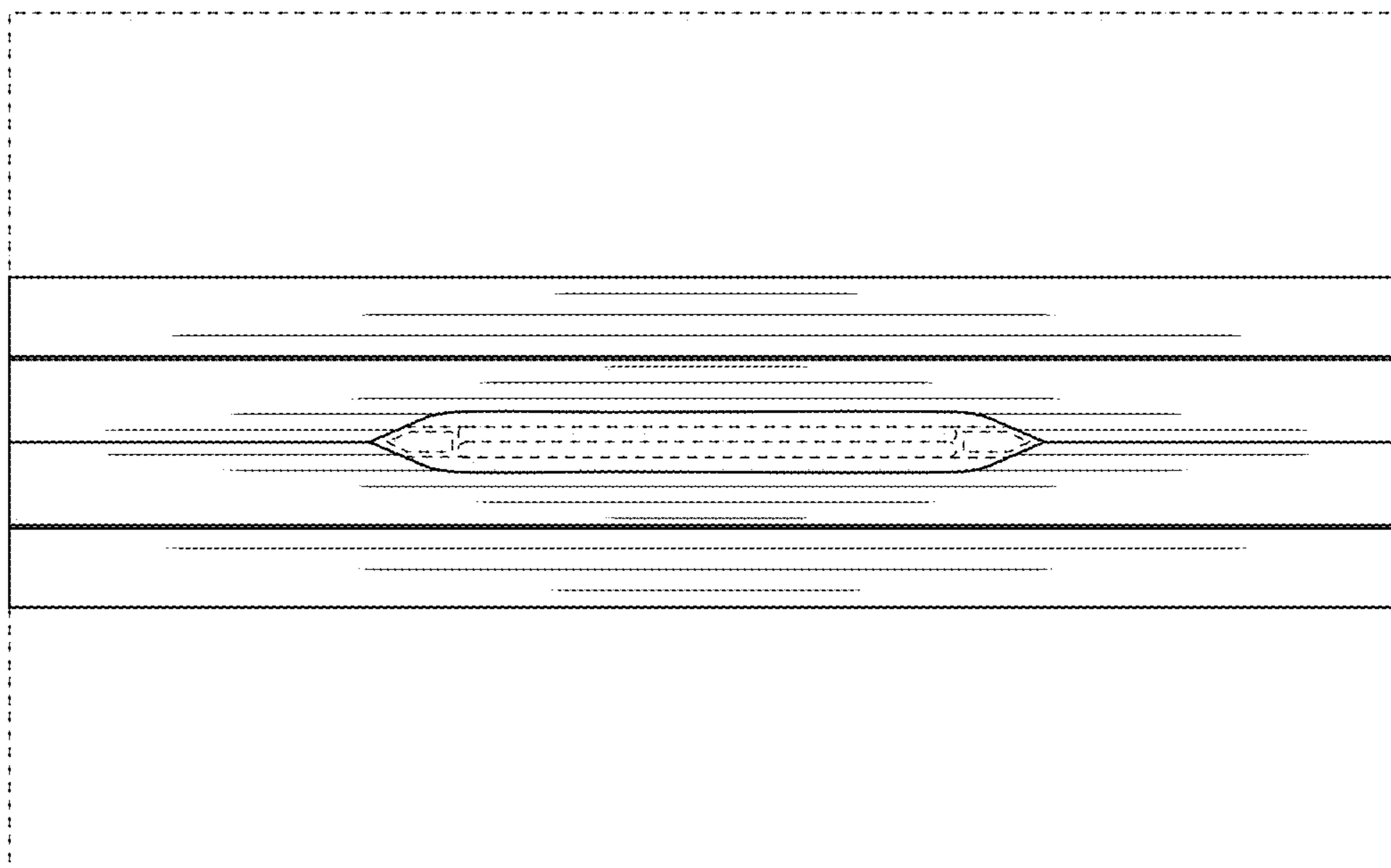


FIG. 9

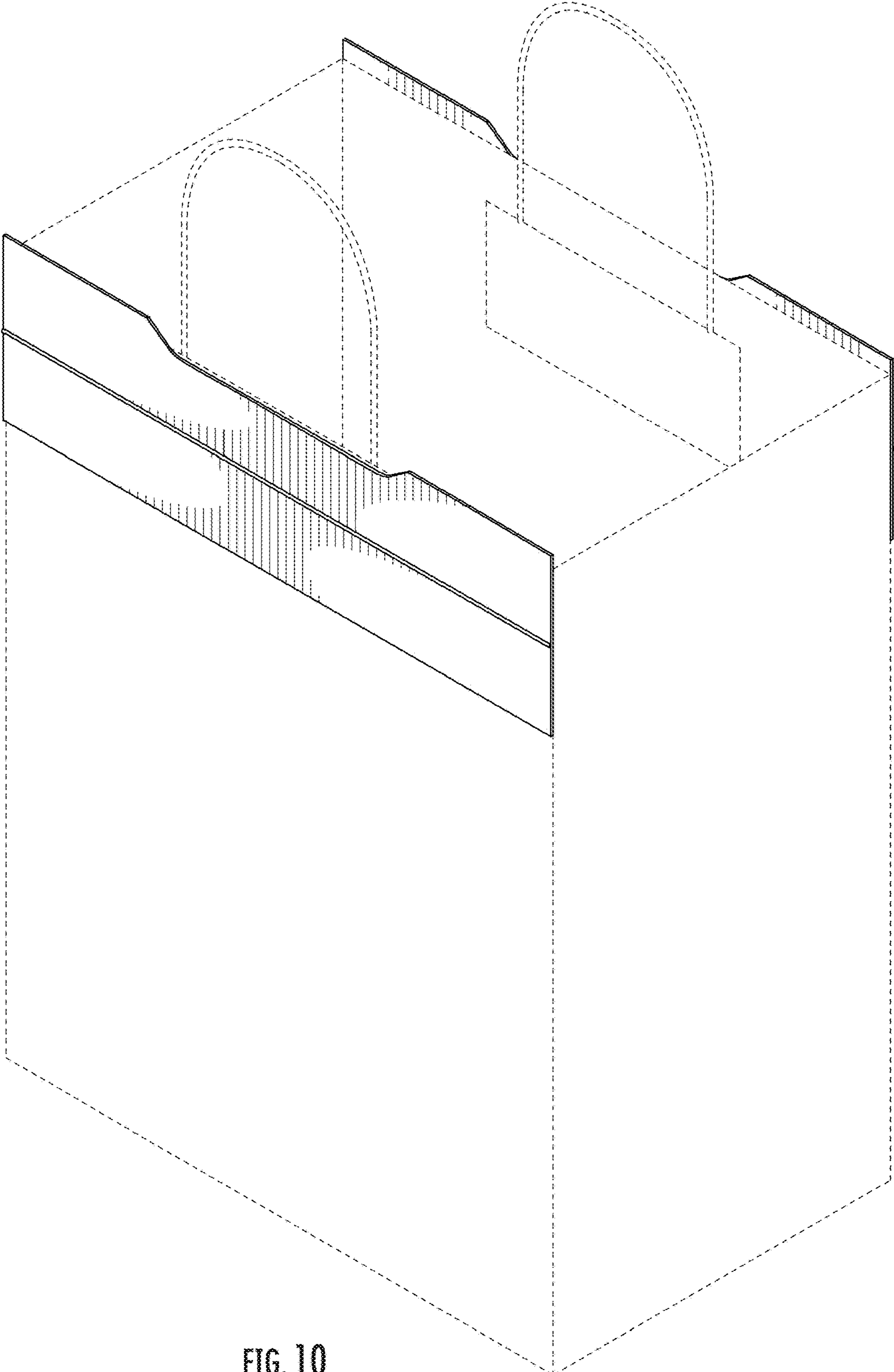


FIG. 10

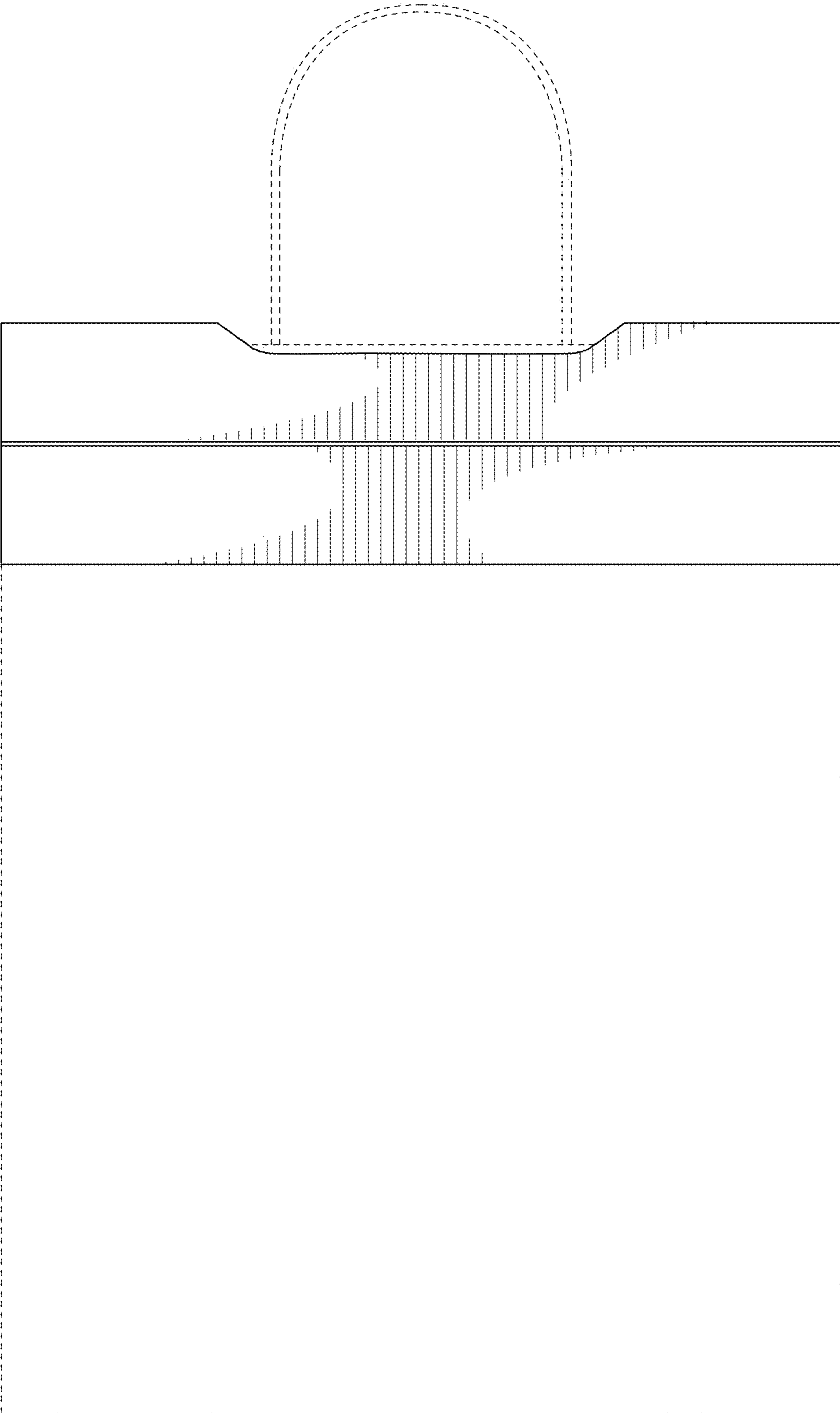


FIG. 11

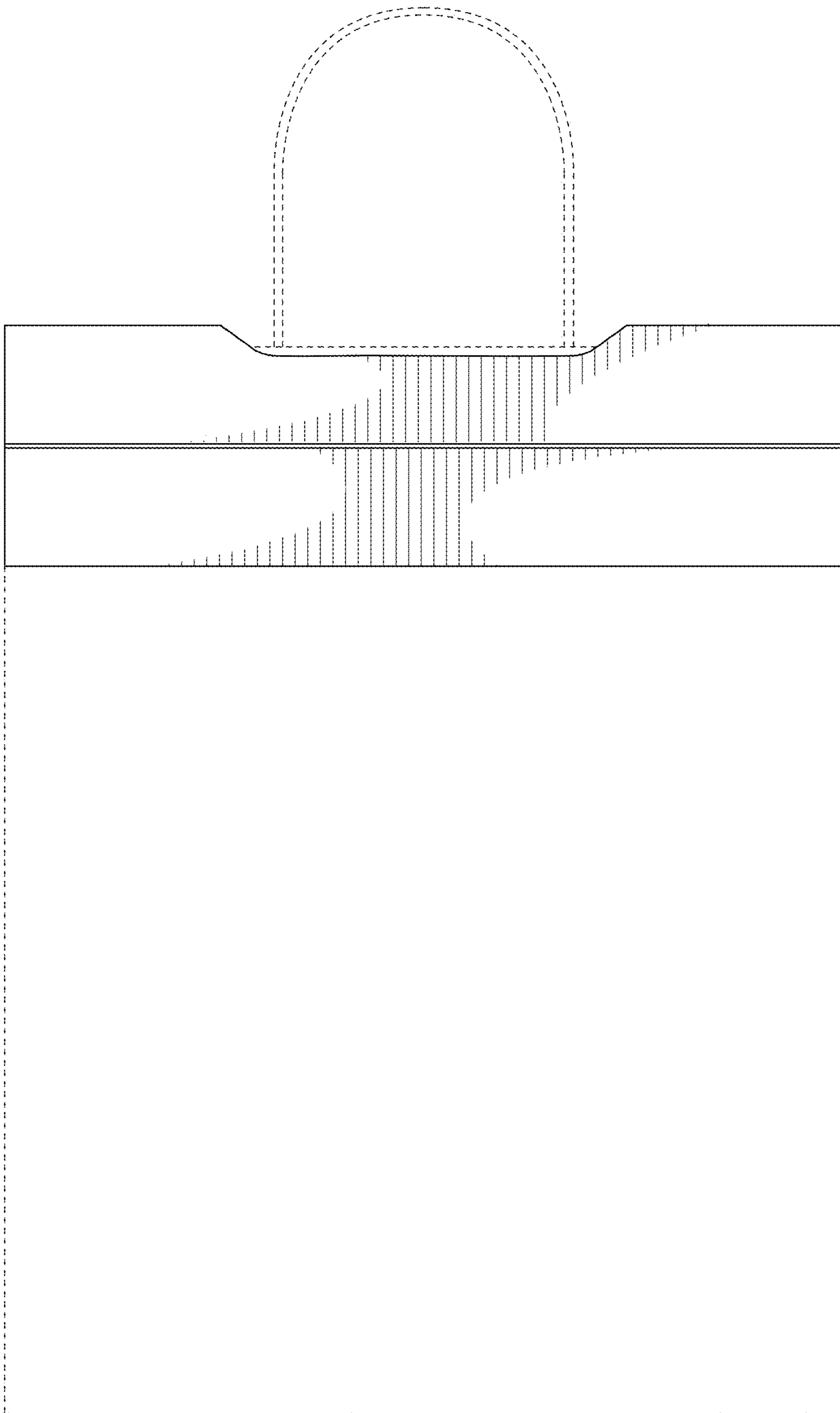


FIG. 12

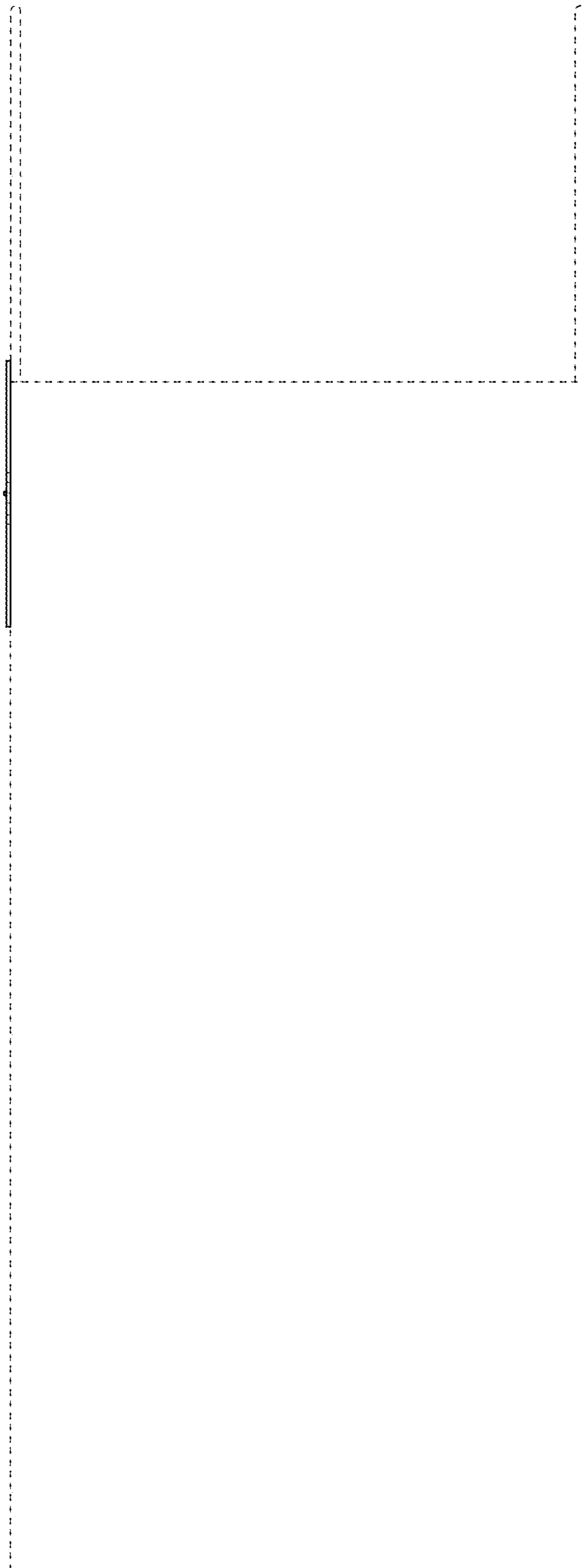


FIG. 13

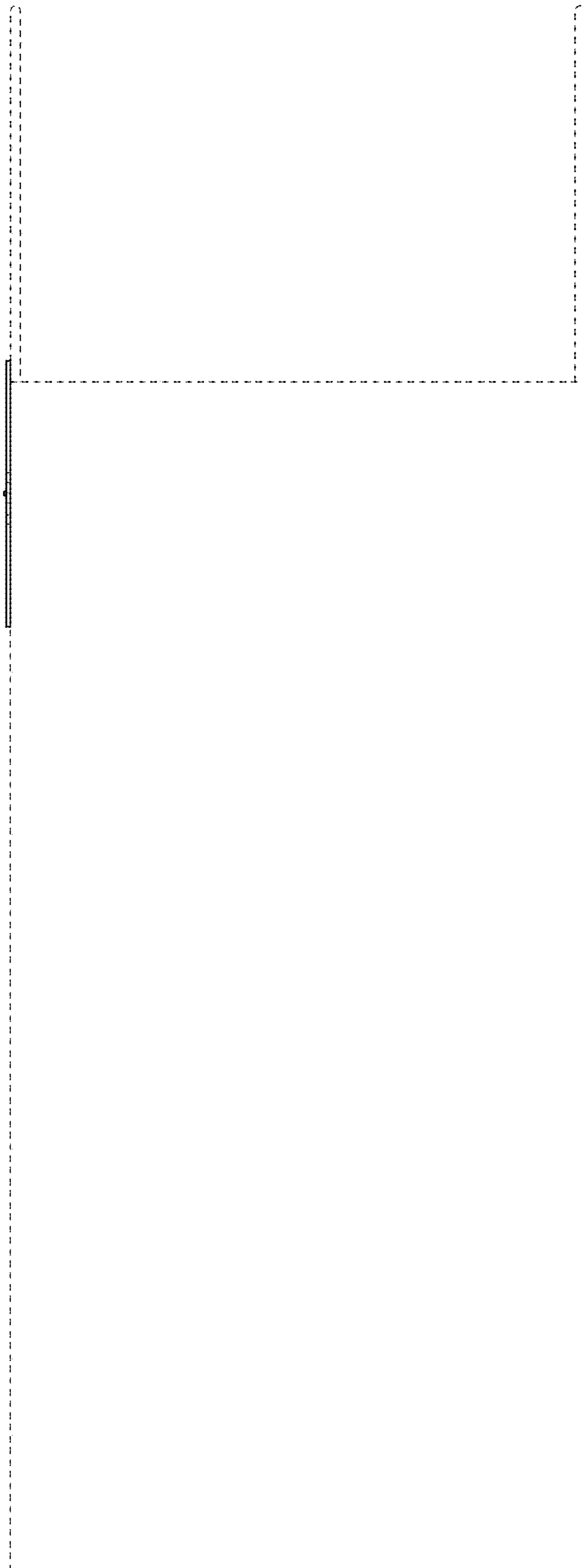


FIG. 14

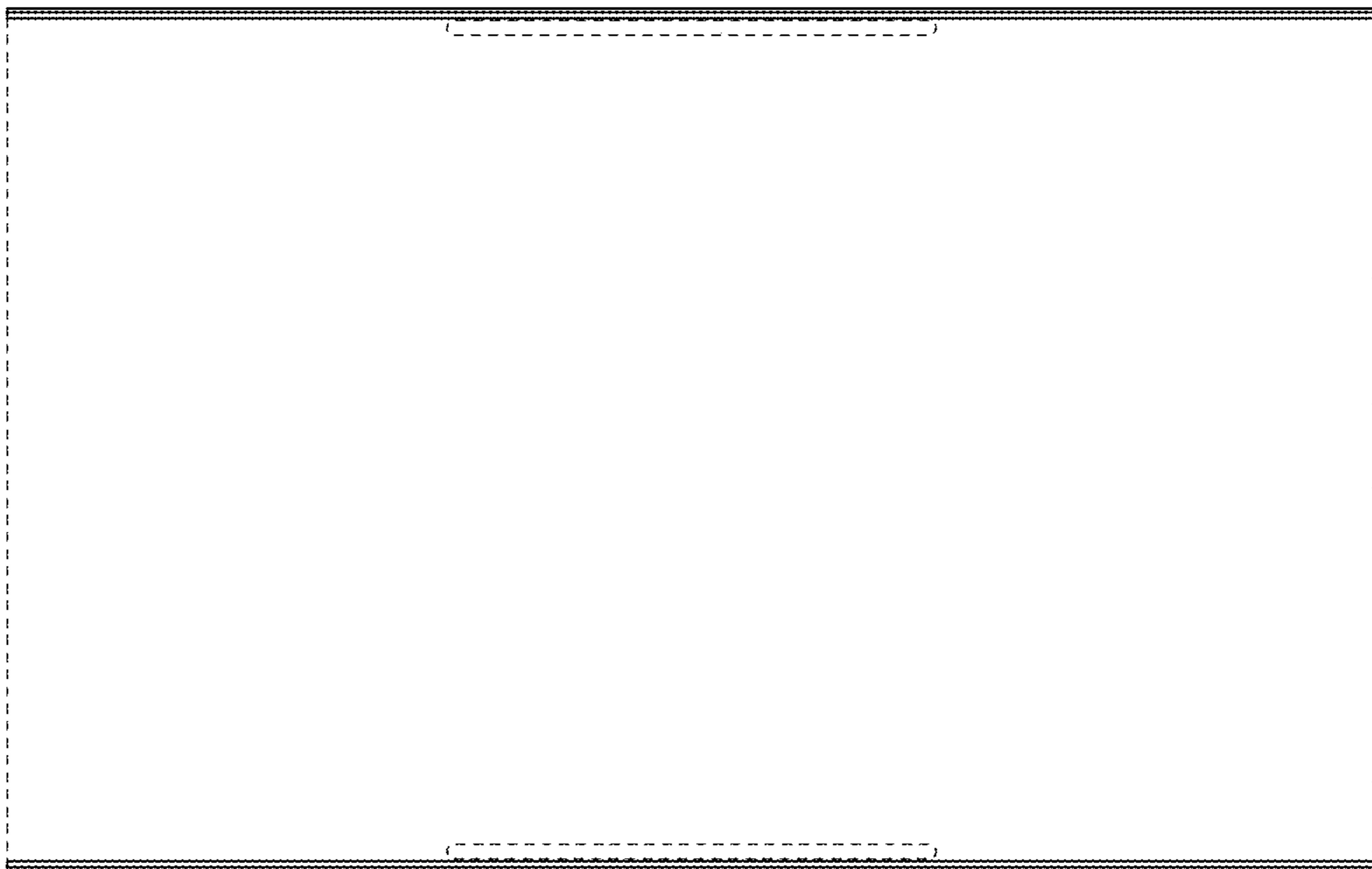


FIG. 15



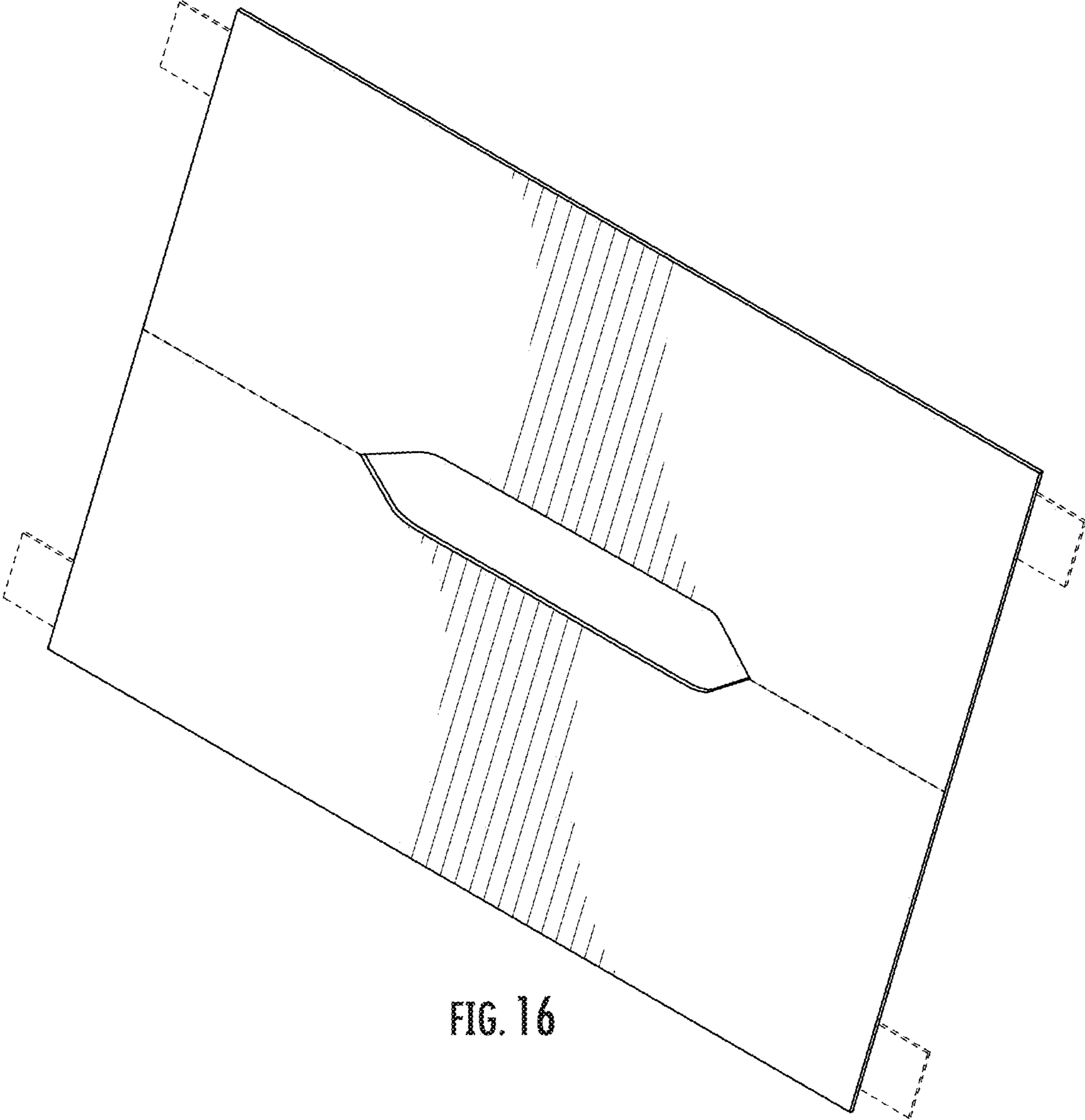


FIG. 16

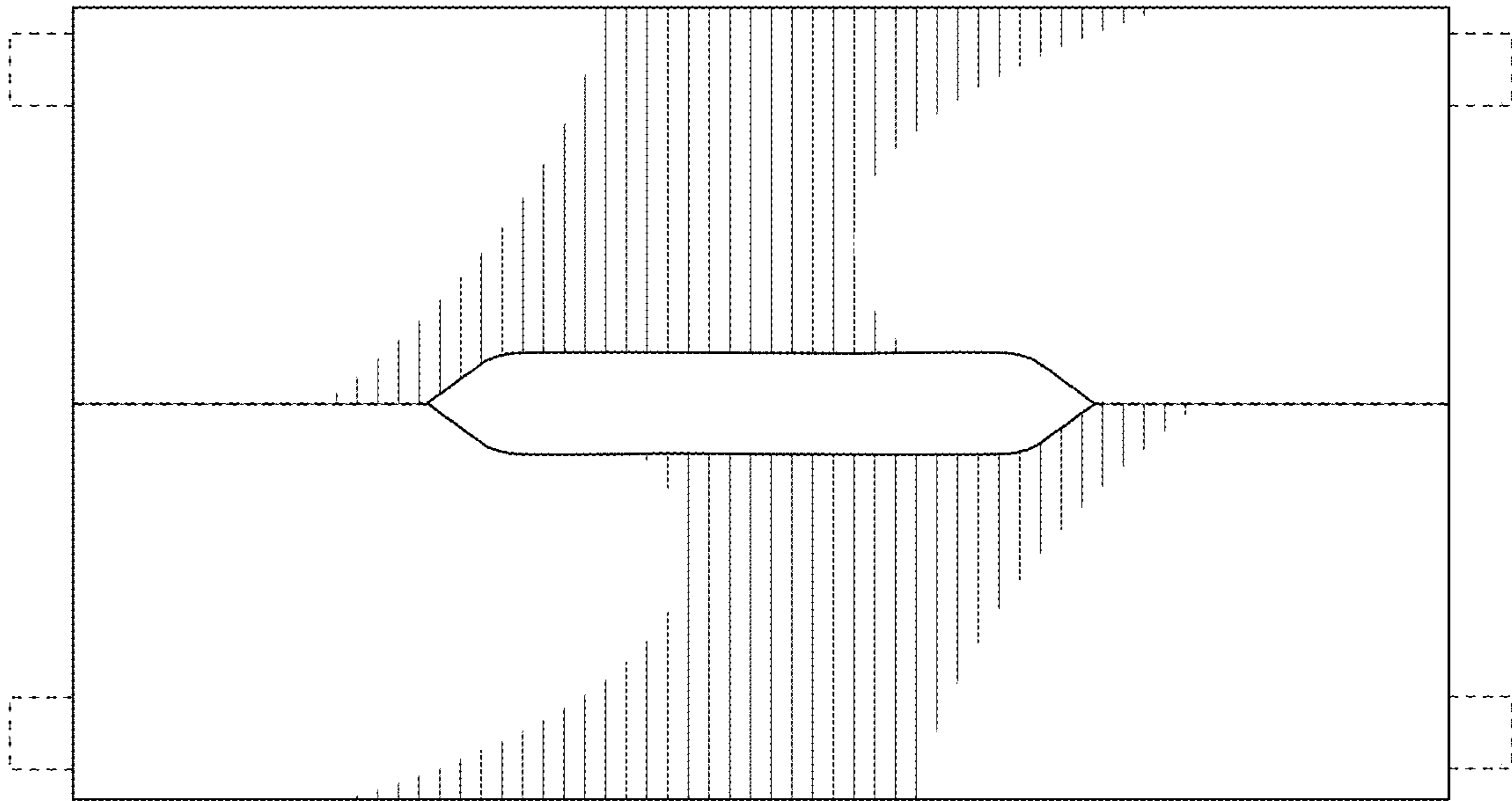


FIG. 17

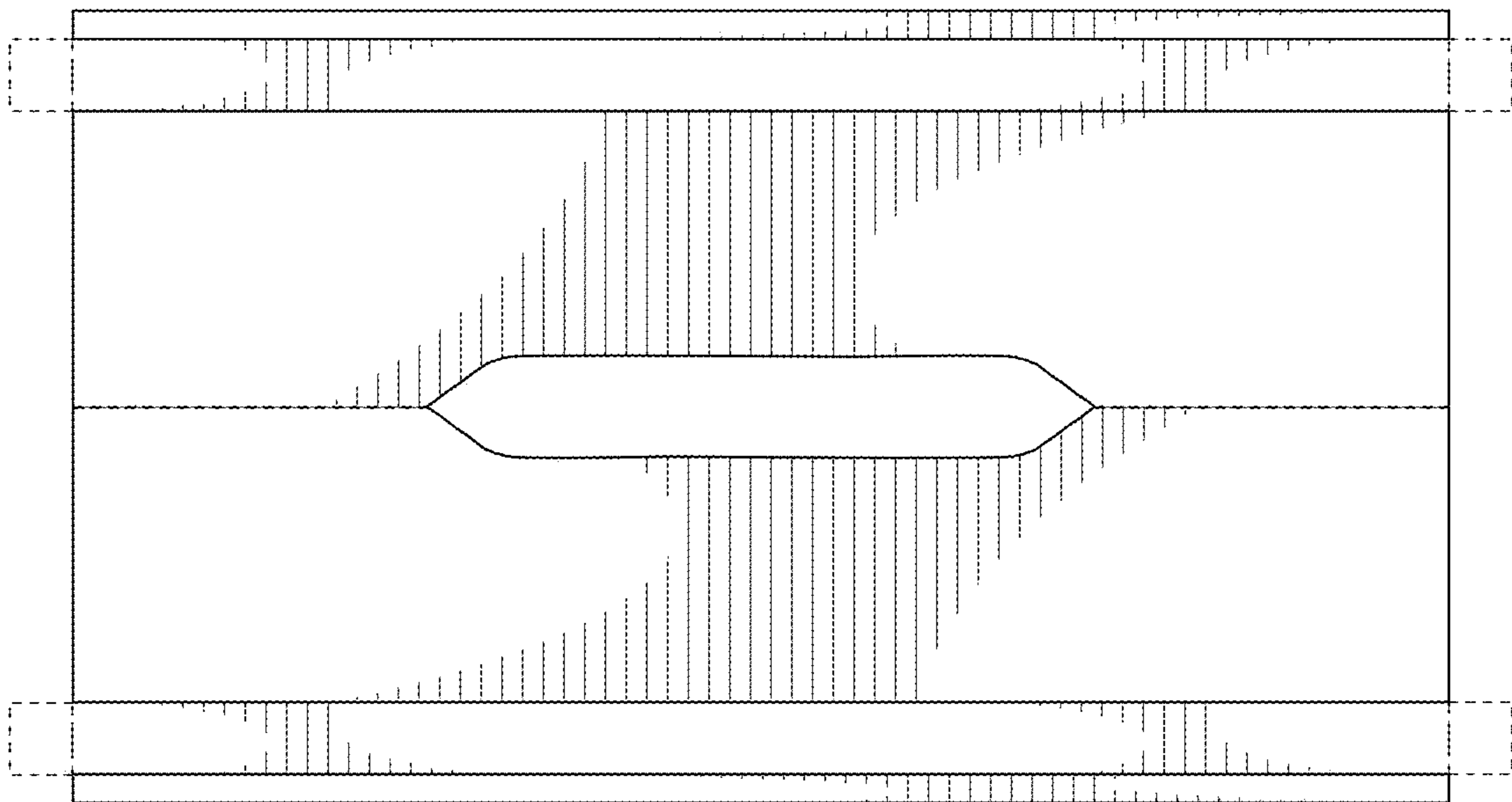


FIG. 18

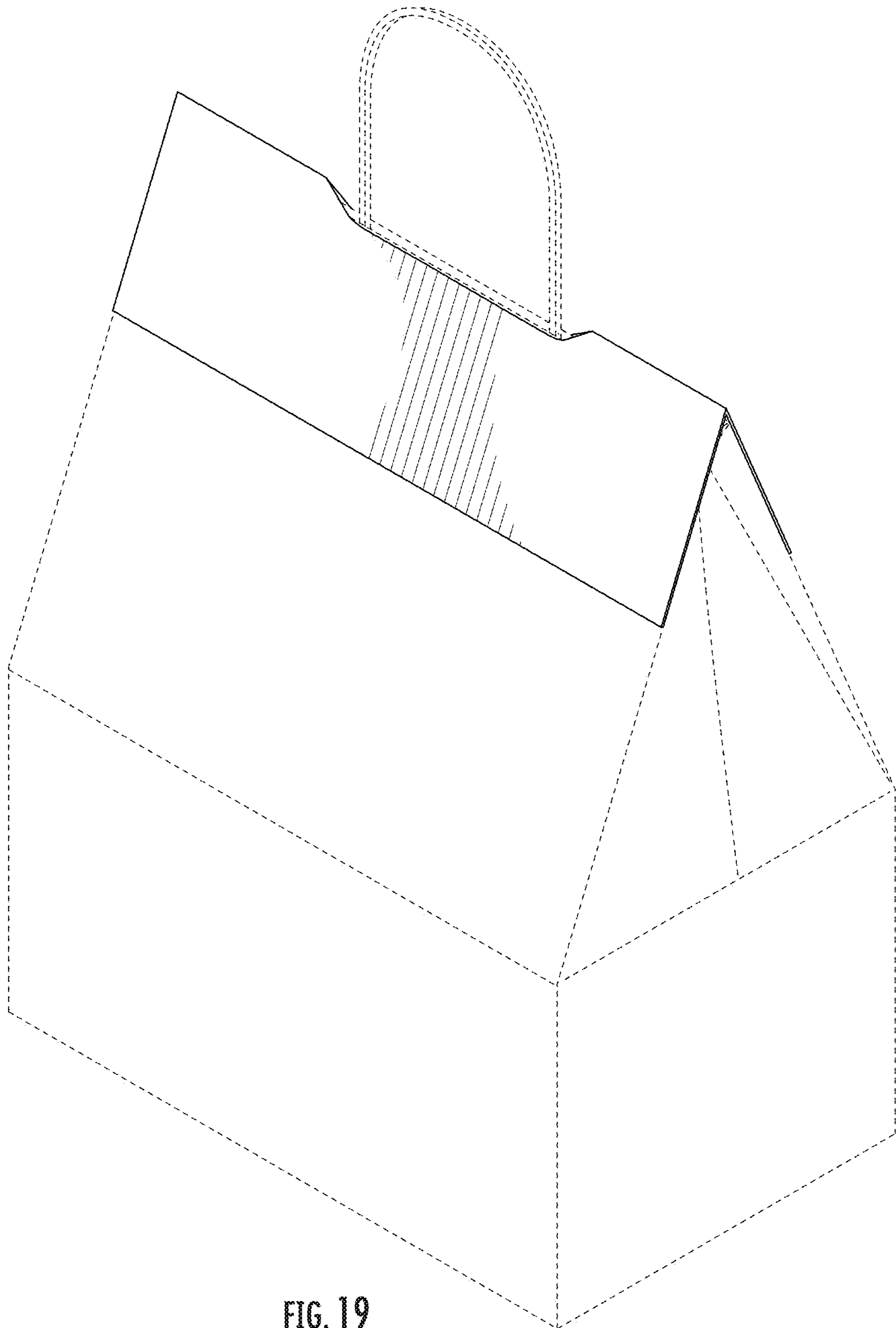


FIG. 19

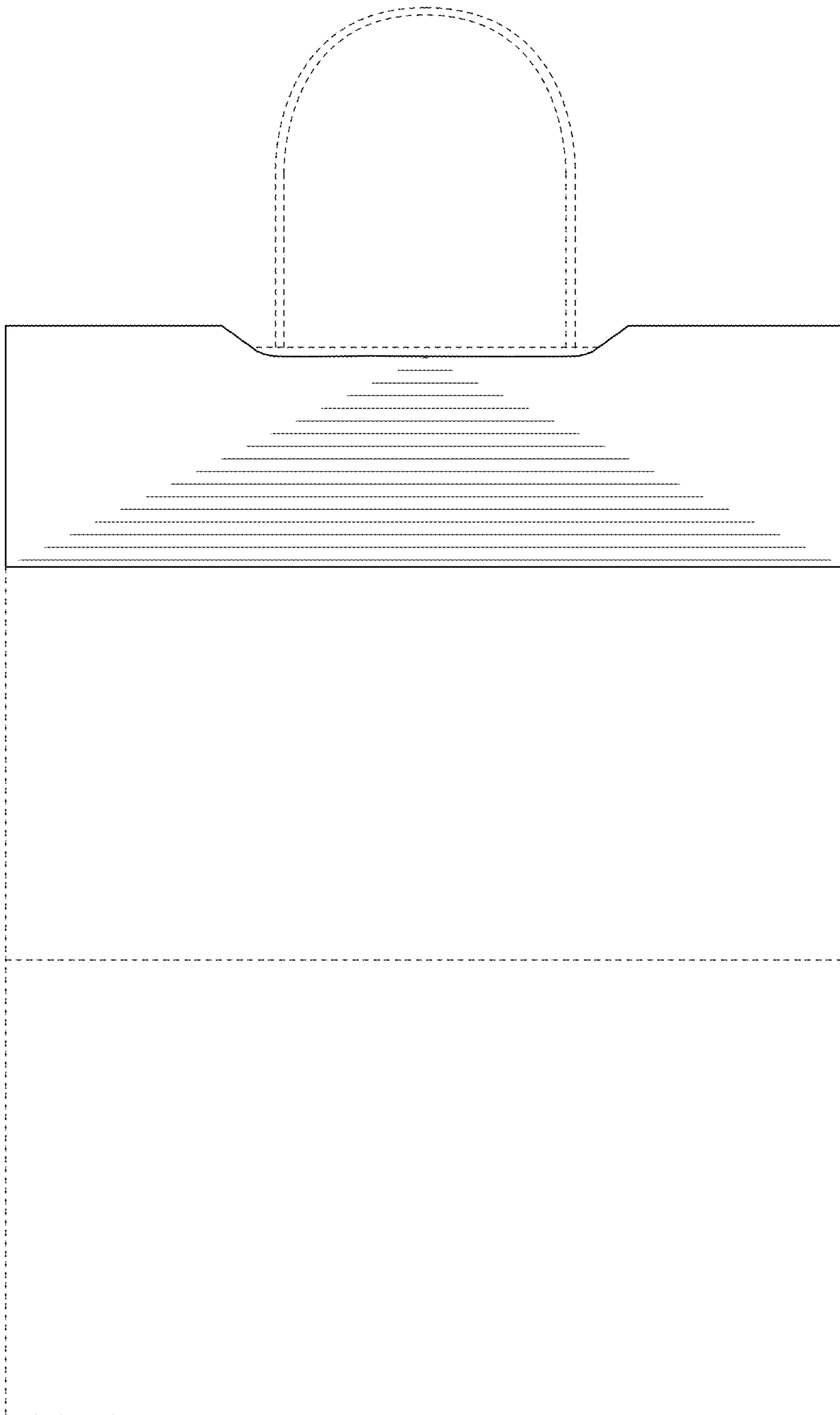


FIG. 20

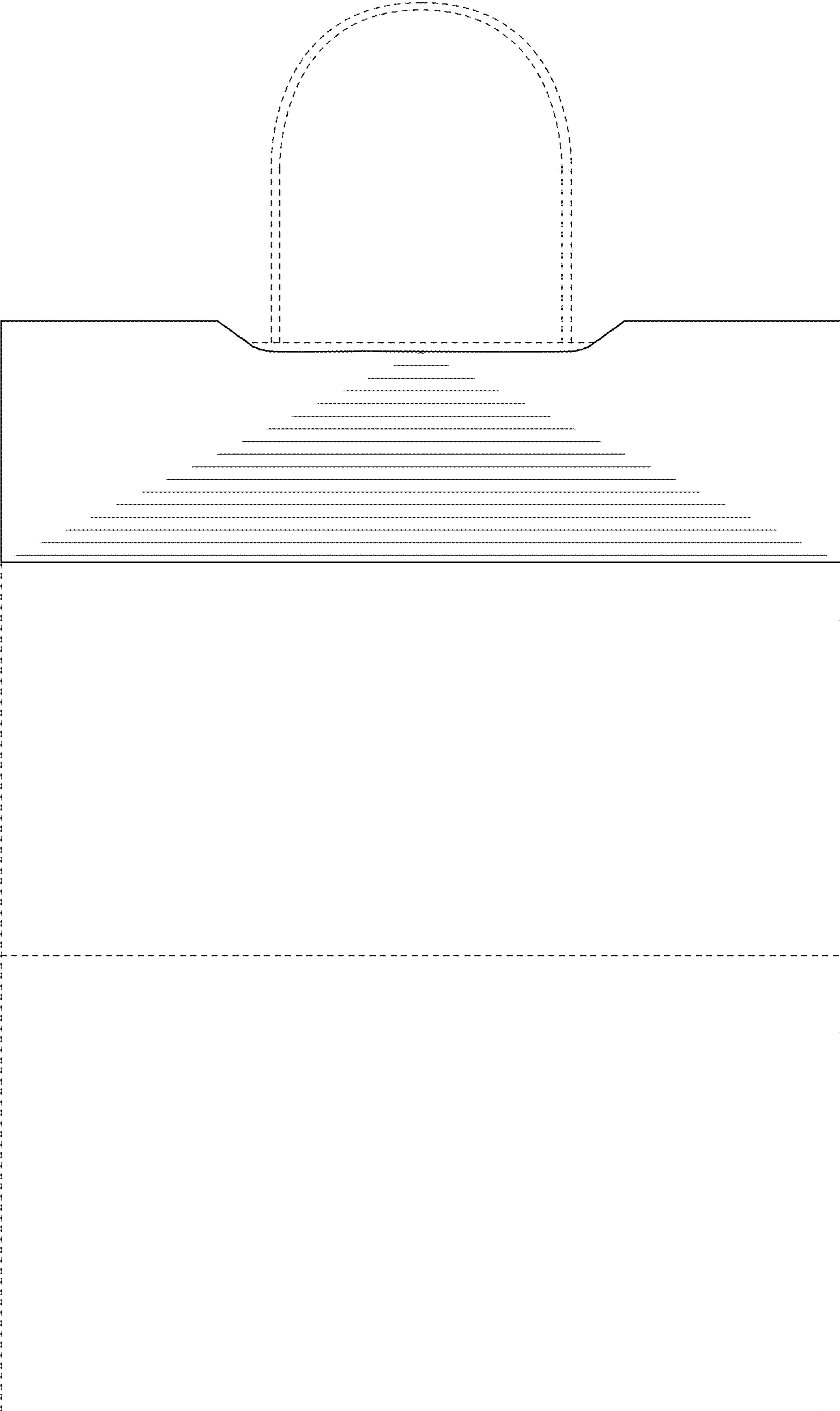


FIG. 21

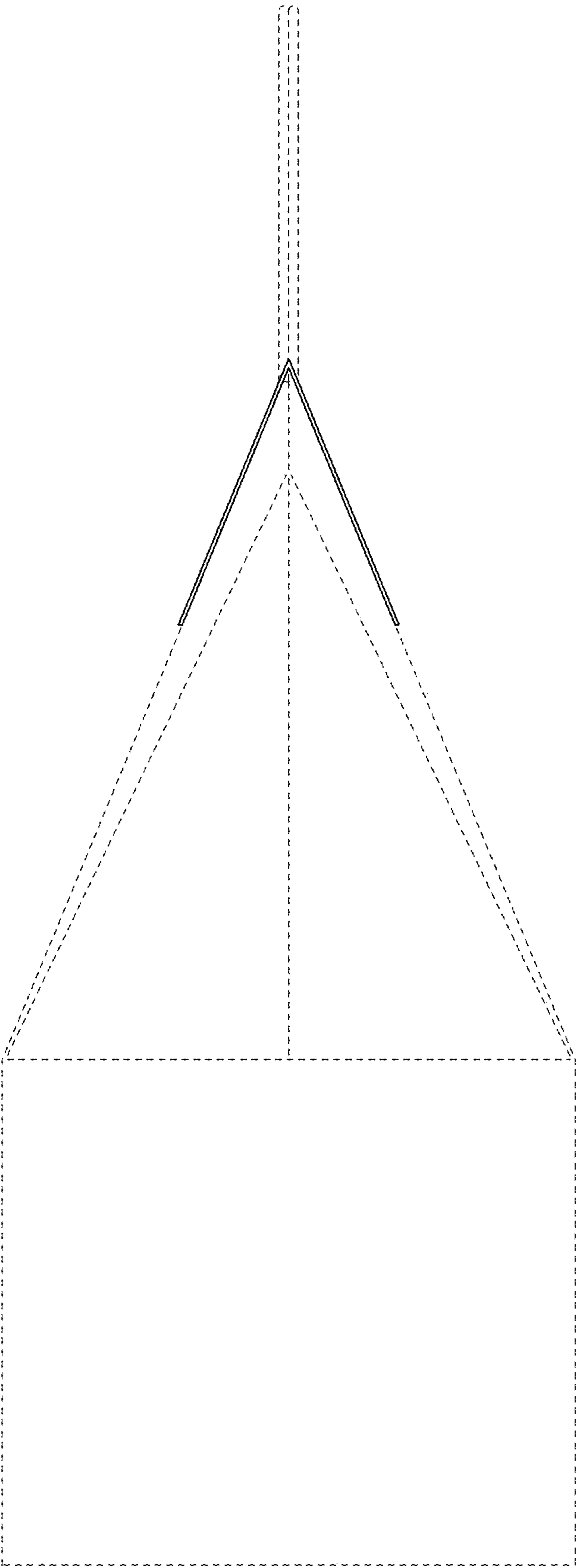


FIG. 22

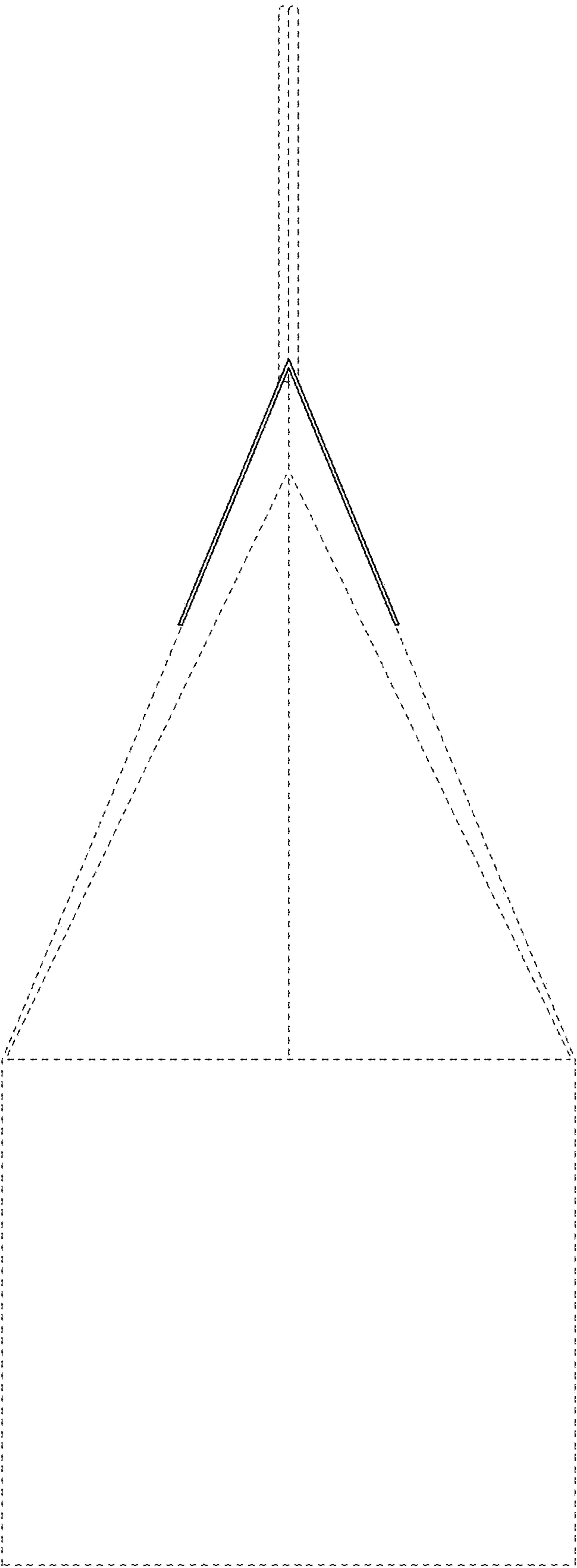


FIG. 23

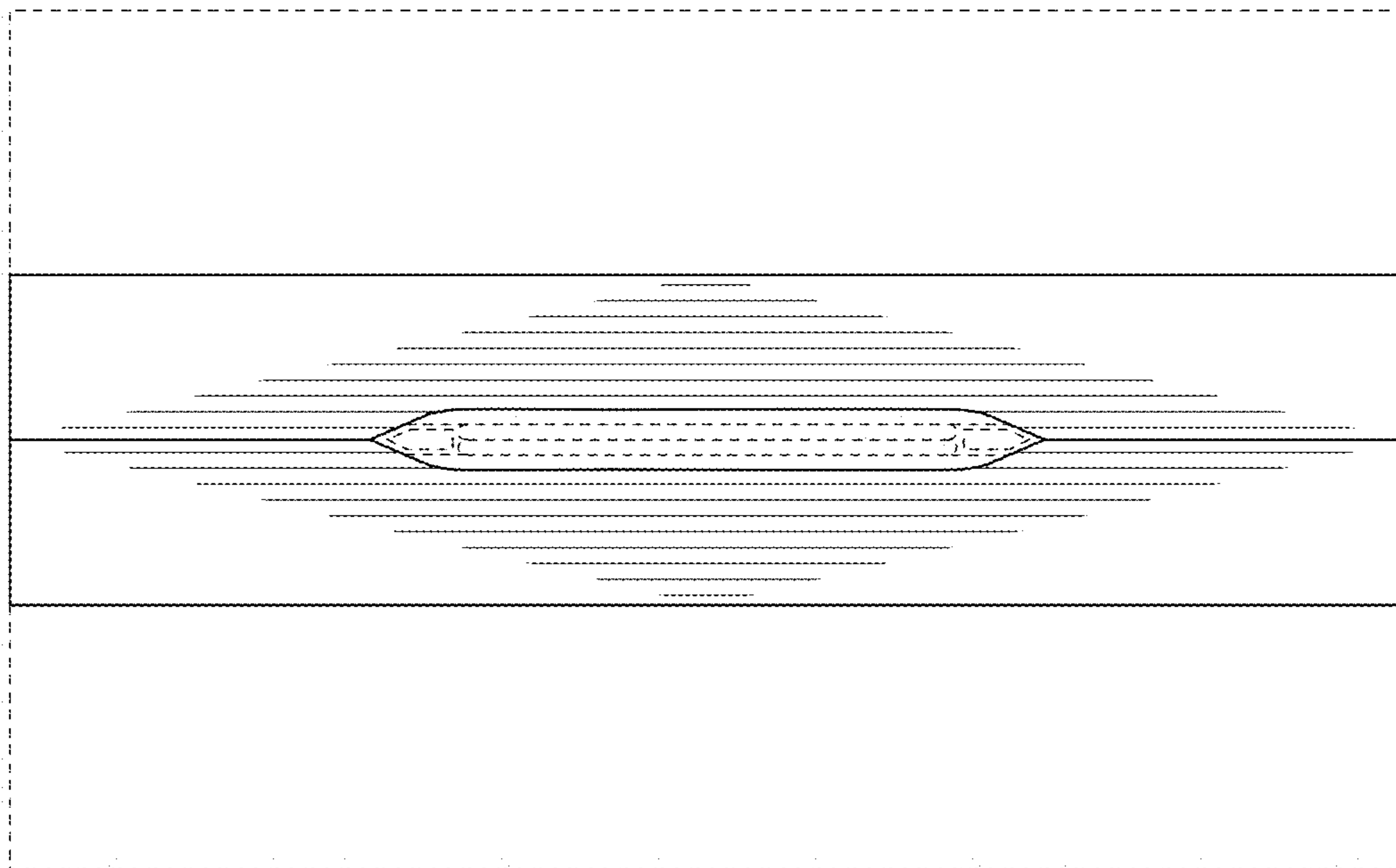


FIG. 24



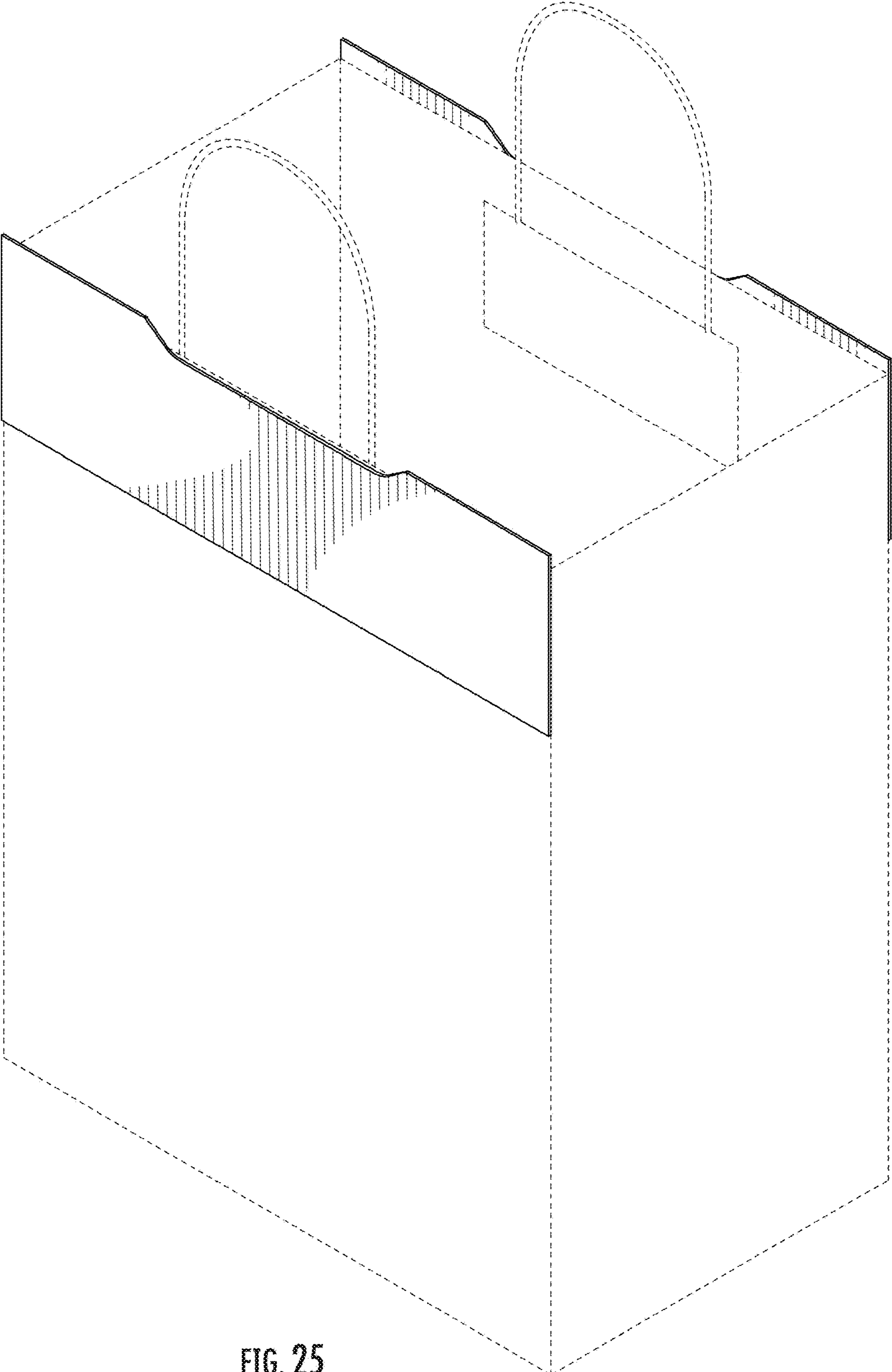


FIG. 25

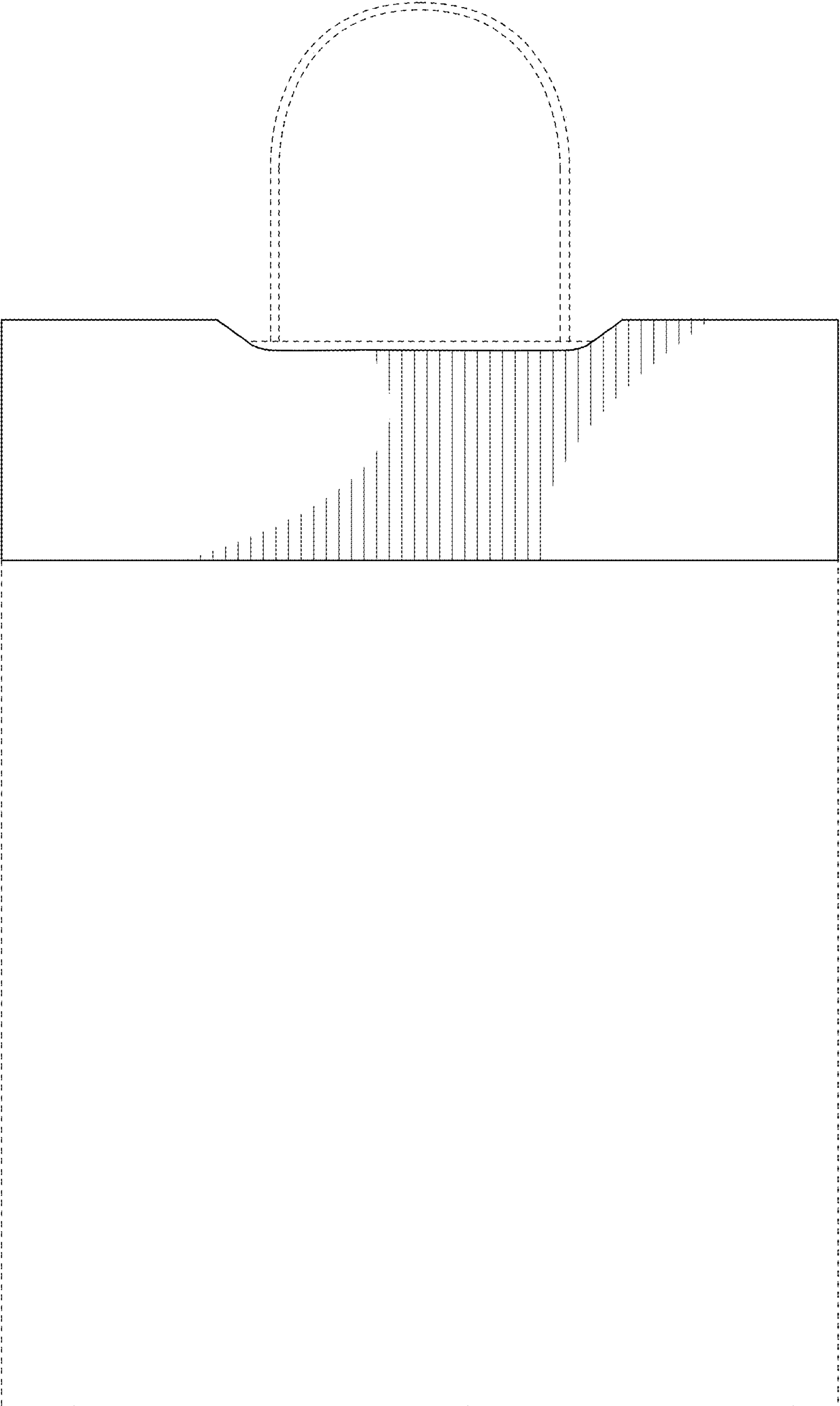


FIG. 26

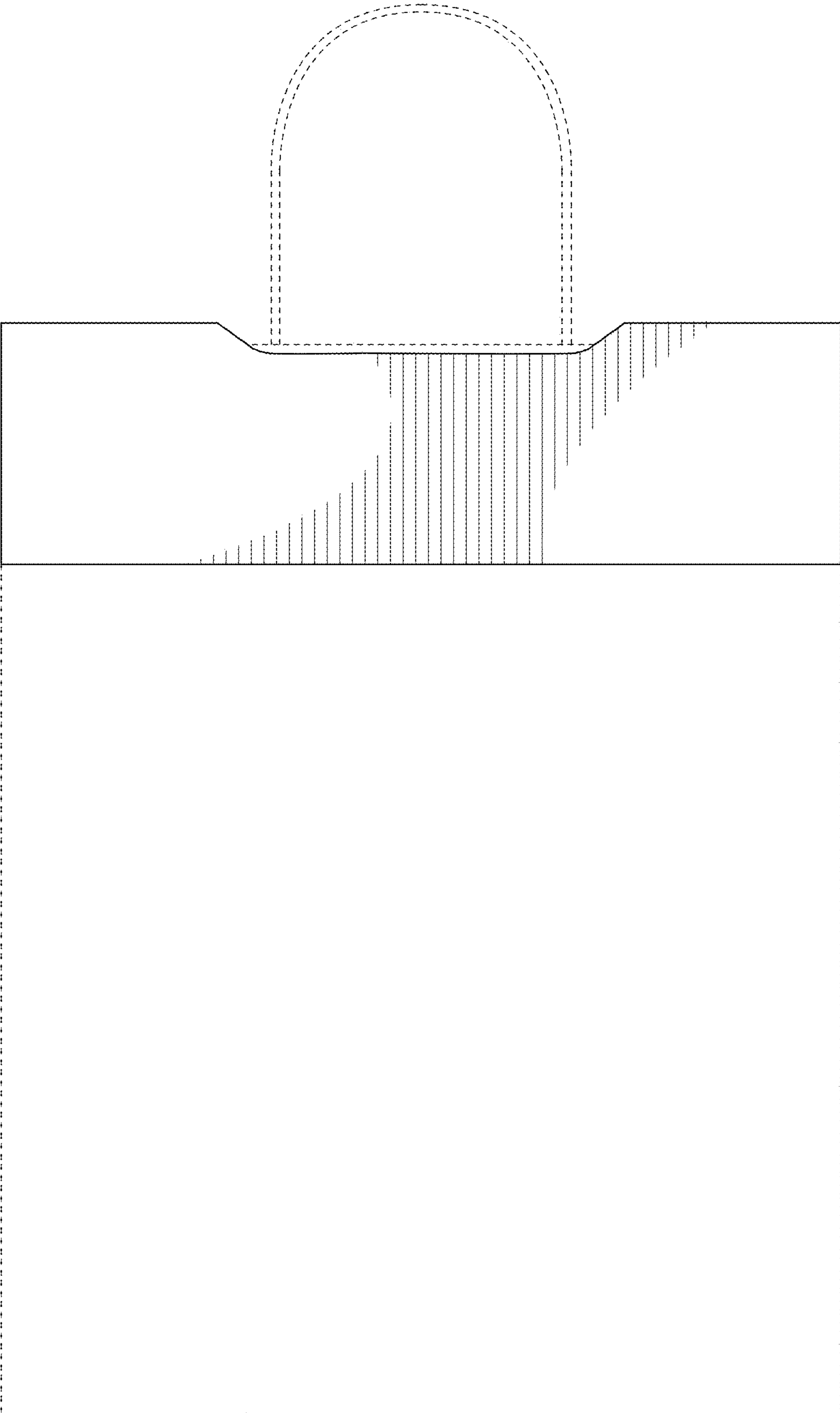


FIG. 27

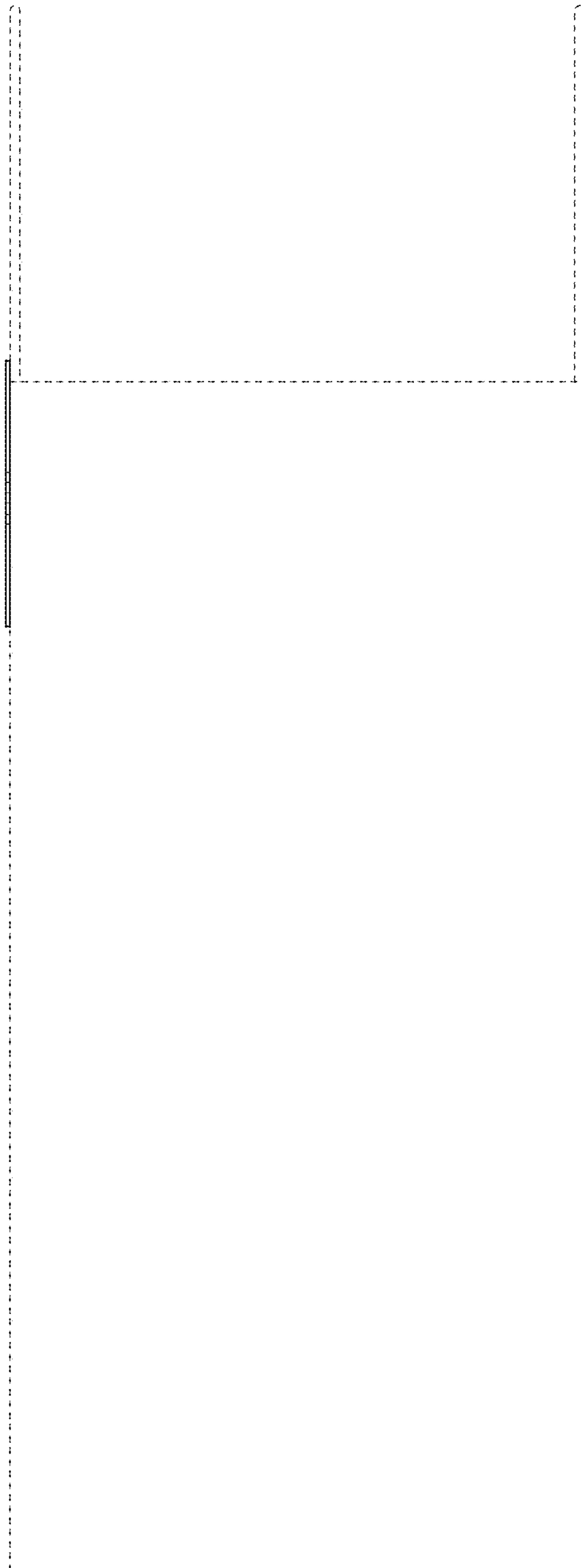


FIG. 28

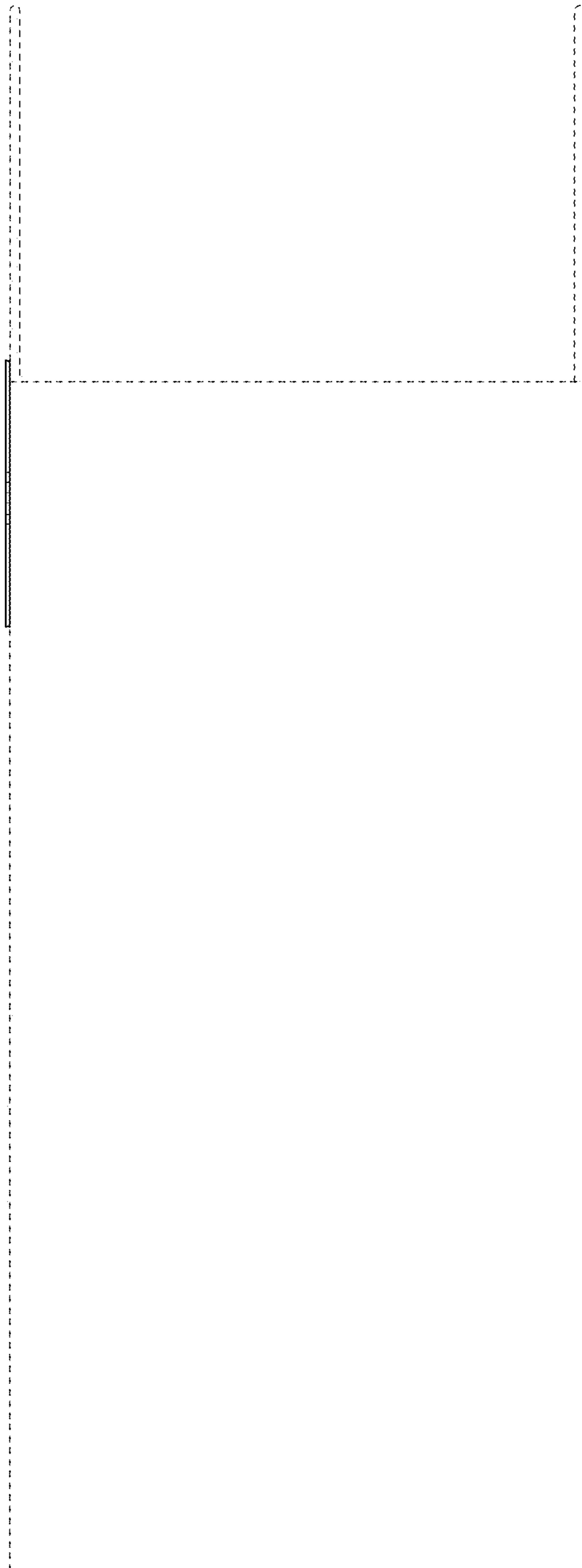


FIG. 29

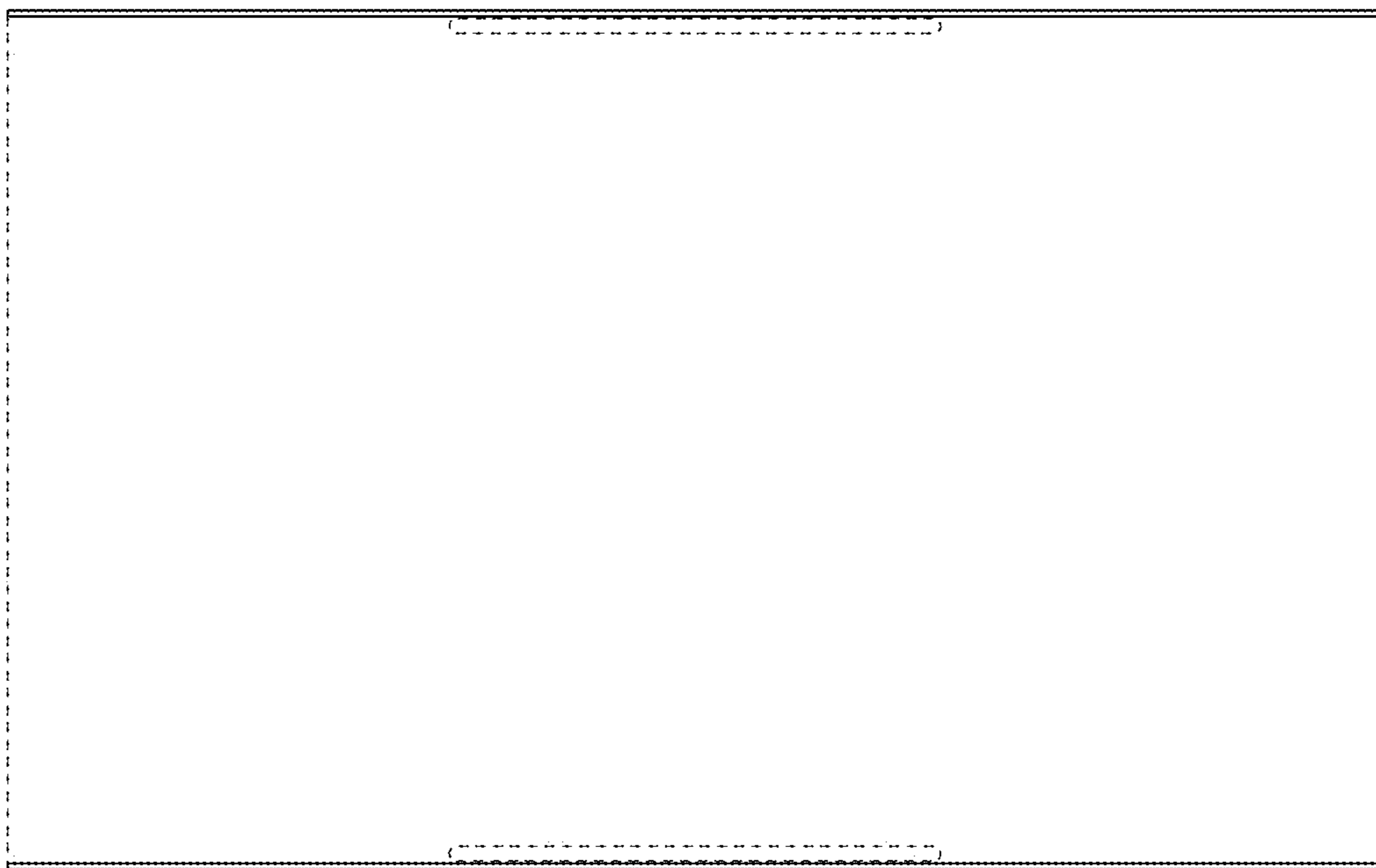


FIG. 30