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(12) **United States Design Patent**
DeVries

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(54) **SCRAPER BLADE FOR CONVEYOR BELTS**

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(**) Term: **14 Years**

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(51) **LOC (10) Cl.** **12-05**

(52) **U.S. Cl.**
USPC **D34/35; D34/29**

(58) **Field of Classification Search**
USPC D34/29, 35; D8/45; 198/635, 499, 497;
D25/124
CPC B65G 45/14; B65G 45/12; B65G 45/16;
B65G 45/26; B65G 45/20; B65G 2203/042
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,658,949 A	4/1987	Reicks	
4,811,833 A *	3/1989	Slikker	B65G 45/12 15/256.5
4,917,231 A	4/1990	Swinderman	
4,953,689 A	9/1990	Peterson et al.	
4,984,326 A *	1/1991	Horie	G03G 15/0812 15/1.51
5,197,587 A	3/1993	Malmberg	
5,222,589 A	6/1993	Gordon	
D347,918 S *	6/1994	Gibbs	D34/29
D357,563 S *	4/1995	Vosbikian	D32/41
5,438,400 A *	8/1995	Kuribayashi	G03G 21/0017 15/256.5
D369,886 S *	5/1996	McCollum	D32/46
D371,610 S *	7/1996	Hsiao	D25/124
D371,611 S *	7/1996	Hsiao	D25/124
D371,612 S *	7/1996	Hsiao	D25/124

5,797,587 A *	8/1998	Schumacher	F16K 31/0606 137/625.65
5,802,662 A *	9/1998	Veazie, III	B60S 1/38 15/250.48
5,887,702 A *	3/1999	Mott	B65G 45/16 198/499
5,979,638 A	11/1999	Wiggins	
6,056,112 A *	5/2000	Wiggins	B65G 45/16 198/497
6,082,524 A	7/2000	Brink	
6,315,105 B1	11/2001	Gibbs et al.	

(Continued)

FOREIGN PATENT DOCUMENTS

WO 2011034553 3/2011

OTHER PUBLICATIONS

ConShear Retrofit Replacement Blades for OEM Belt Cleaners Part
Number Cross-Reference Guide, copyright date 2008, 11 pages.

(Continued)

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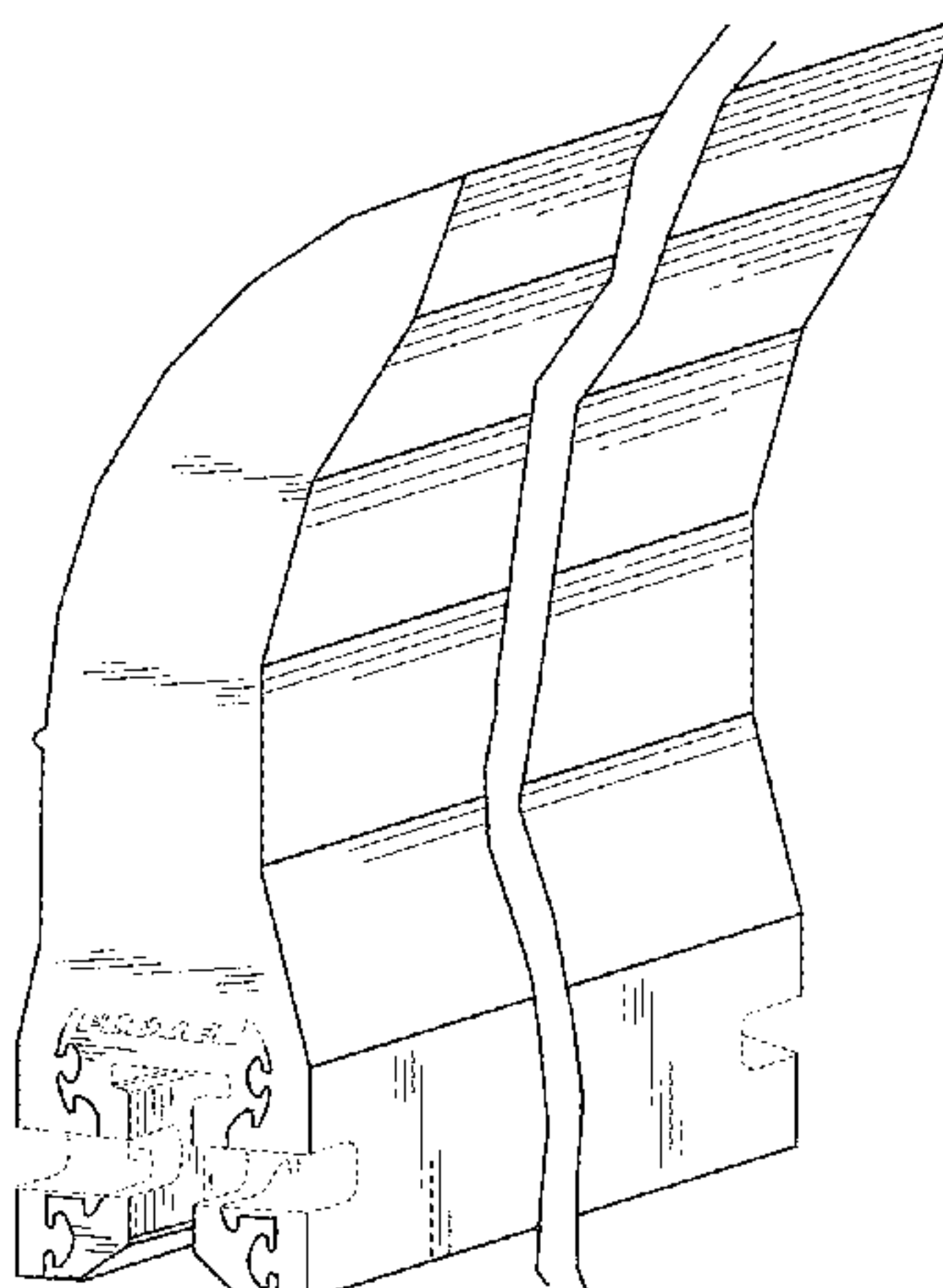
(57) **CLAIM**

I claim the ornamental design for a scraper blade for conveyor
belts, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a scraper blade for conveyor
belts showing my new design;
FIG. 2 is a side elevation view thereof, the opposite side being
a mirror image thereof;
FIG. 3 is a top plan view thereof;
FIG. 4 is a rear elevational view thereof;
FIG. 5 is a front elevational view thereof; and,
FIG. 6 is a bottom plan view thereof.
The broken lines are for illustrating environmental features of
the scraper blade for conveyor belts and form no part of the
claimed design.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

6,321,901 B1

11/2001

Strebel et al.

6,349,816 B1

2/2002

Tenzer

6,401,911 B1 *

6/2002

Swinderman B65G 45/16

6,439,373 B1 *

8/2002

Swinderman B65G 45/12

6,457,575 B2 *

10/2002

Swinderman B65G 45/12

D482,508 S

11/2003

DeVries

6,926,133 B2

8/2005

Kolodziej

7,347,315 B2

3/2008

Kolodziel et al.

D594,623 S

6/2009

Felton

D632,045 S *

2/2011

Kotze D34/35

8,123,022 B2

2/2012

Mott et al.

8,464,858 B2

6/2013

Kirschner et al.

D702,013 S *

4/2014

Childs D34/29

D702,014 S *

4/2014

Childs D34/29

D710,564 S *

8/2014

Yang D34/29

8,875,870 B2

11/2014

Waters

D740,514 S *

10/2015

Peterson D34/29

2003/0066737 A1 *

4/2003

Malmberg B65G 45/12

2003/0230466 A1 *

12/2003

Swinderman B65G 45/12

2004/0188224 A1 *

9/2004

Kolodziej B65G 45/16

2006/0131135 A1

6/2006

Waters et al.

2007/0089968 A1 *

4/2007

Swinderman B65G 45/12

2010/0126832 A1

5/2010

DeVries

2011/0220461 A1

9/2011

Kirschner

2012/0247922 A1

10/2012

Waters

OTHER PUBLICATIONS

Superior Replacement Blades Part Number Reference Guide, accessed prior to Mar. 28, 2014, 5 pages.

Argonics Engineered Polyurethane Replacement Blades Technical Product Bulletin, accessed from www.argonics.com, accessed prior to Mar. 28, 2014, 10 pages.

ASGCO website, Replacement blades, accessed from www.ASGCO.com, copyright date 2014, 8 pages.

Picture of Scraper Blade from Martin Engineering, publicly available before Mar. 28 2014, 1 page.

Flexco, Belt Conveyor Products, copyright date 2013, 28 pages.

Argonics, Replacement Blades, Raptor & Accuflo Retrofit Blades, accessed prior to Mar. 28, 2014, 2 pages.

U.S. Appl. No. 14/229,800, filed Mar. 28, 2014, 25 pages.

U.S. Appl. No. 29/495,776, filed Jul. 3, 2014, 17 pages.

Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration from the International Bureau of WIPO for corresponding International Application No. PCT/US15/23018, dated Jul. 2, 2015, 13 pages.

* cited by examiner

FIG. 1

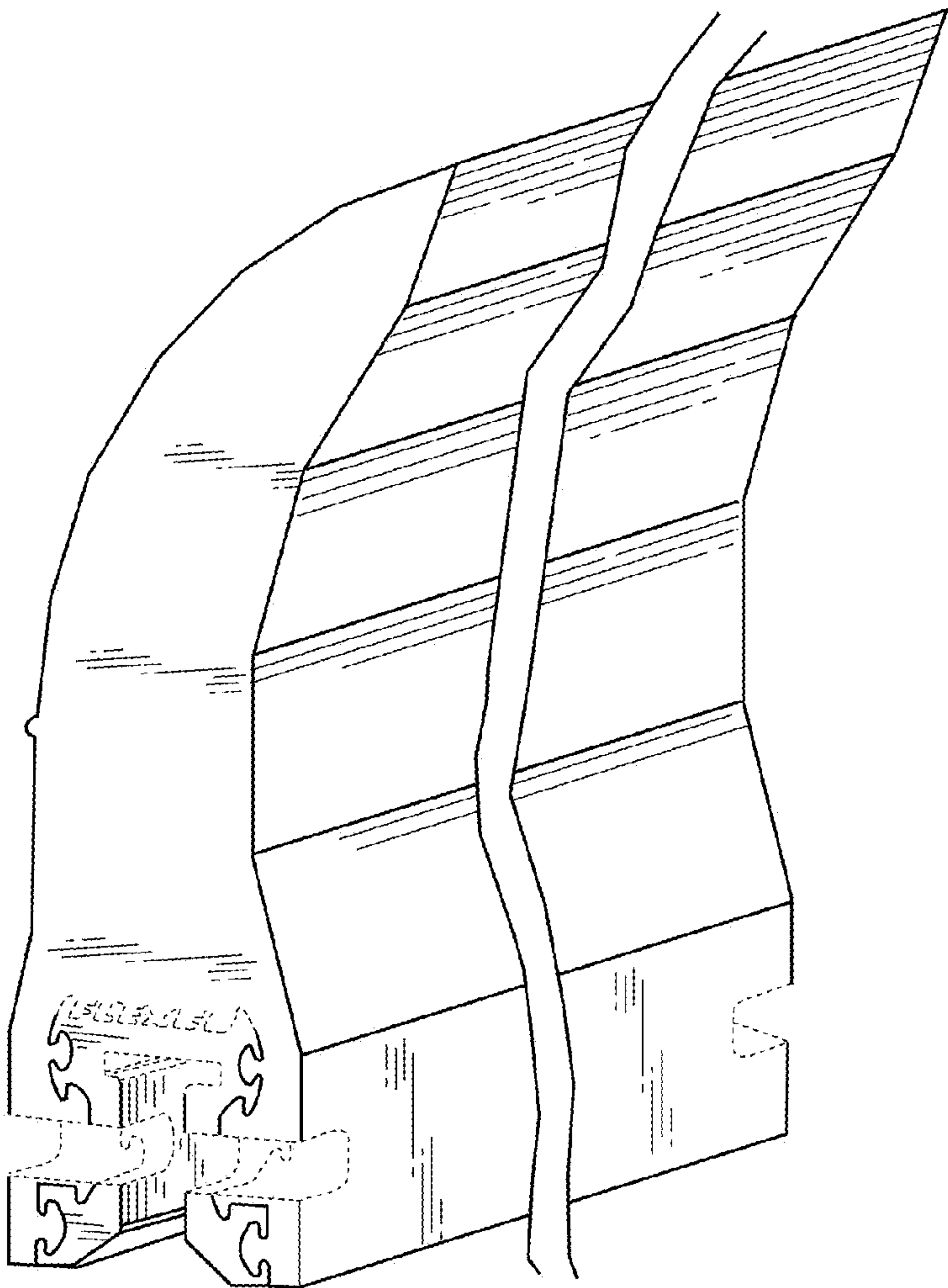


FIG. 2

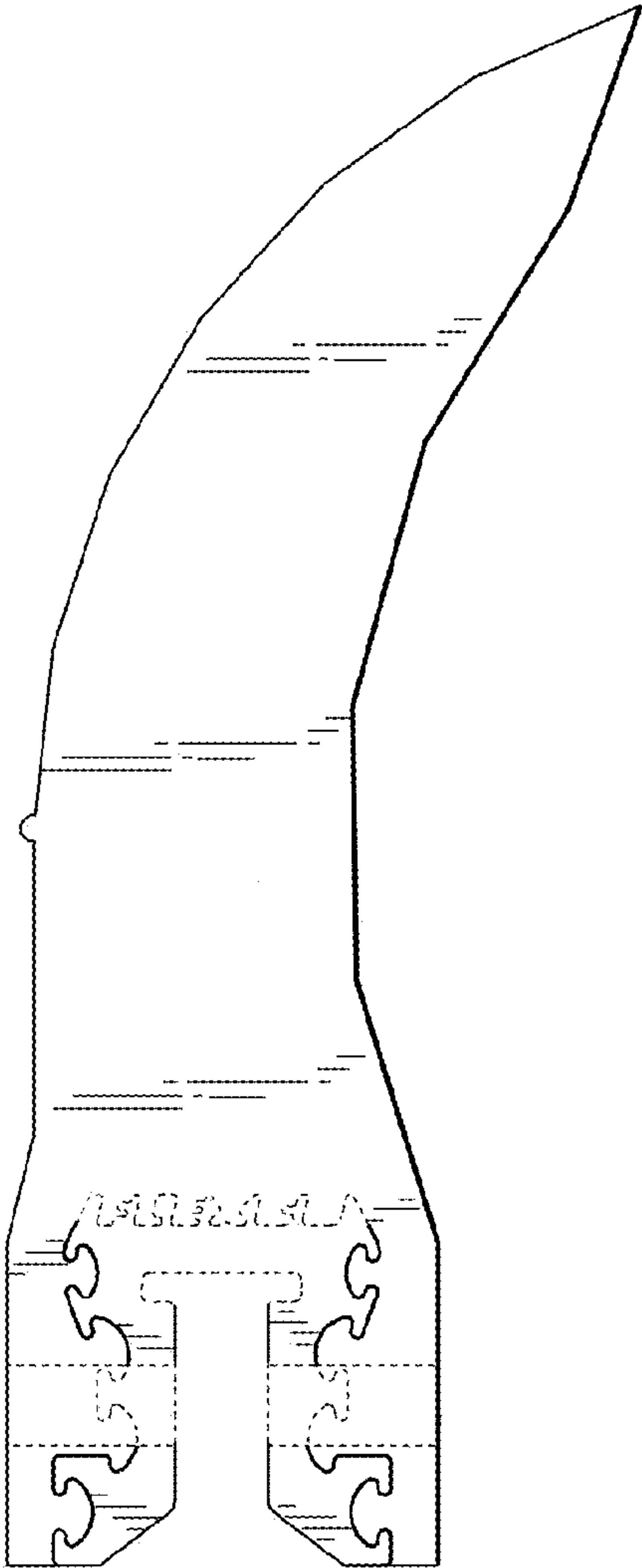


FIG. 3

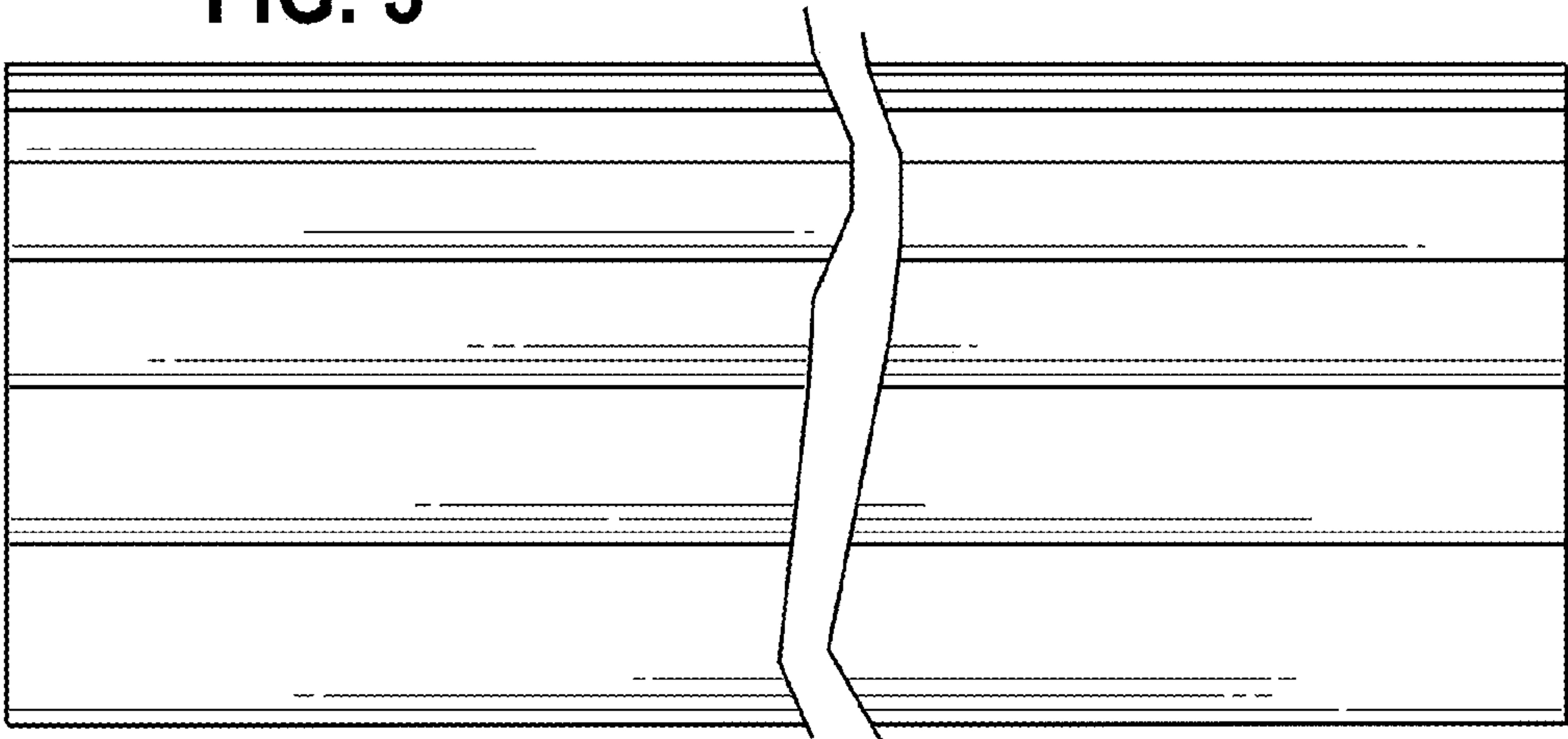


FIG. 4

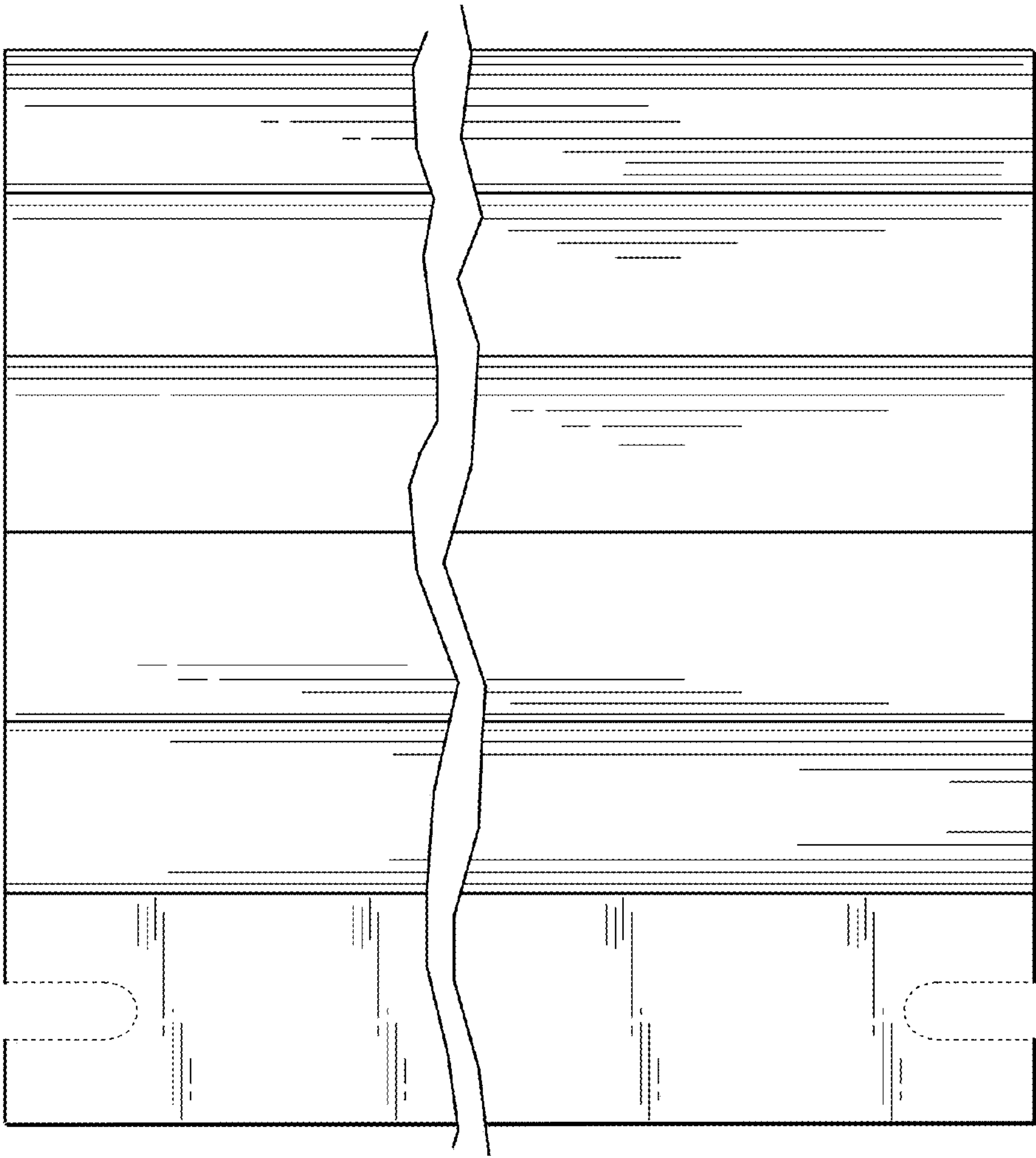


FIG. 5

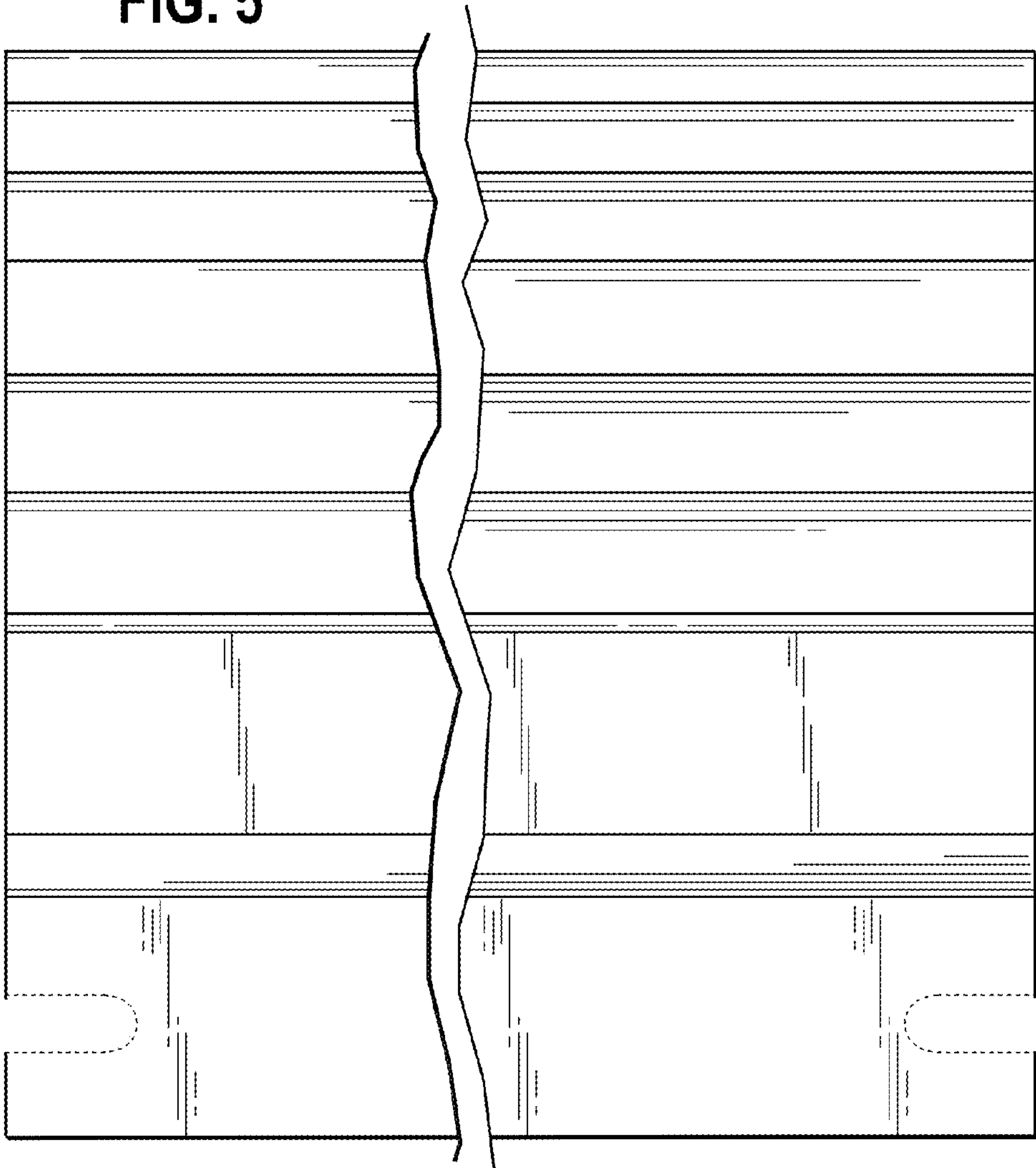


FIG. 6

