



US00D776516S

(12) **United States Design Patent** (10) **Patent No.:** **US D776,516 S**
Geiger et al. (45) **Date of Patent:** **** Jan. 17, 2017**

- (54) **AERIAL SUPPORT TIE**
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WI (US)
- (73) Assignee: **HellermannTyton Corporation**,
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- (**) Term: **15 Years**
- (21) Appl. No.: **29/527,573**
- (22) Filed: **May 20, 2015**

Related U.S. Application Data

- (62) Division of application No. 29/482,670, filed on Feb. 20, 2014, now Pat. No. Des. 739,714.
- (51) **LOC (10) Cl.** **08-05**
- (52) **U.S. Cl.**
USPC **D8/356**
- (58) **Field of Classification Search**
USPC D8/356, 354, 367, 349, 394, 382;
D11/12, 56; 1/1; D13/152, 139.1; 381/74;
24/115 R; D24/143

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 3,257,694 A * 6/1966 Litwin F16B 2/08
24/16 PB
- 3,463,427 A 8/1969 Fisher
(Continued)

OTHER PUBLICATIONS

Thomas & Betts, Deltec Cable Tie, <http://www-public.tnb.com/ps/fulltilt/index.cgi?check=Y&part=TYD5135M>, dated Jul. 23, 2013, 2 pages.

Panduit, Aerial Support Ties, www.panduit.com/wcs/Satellite?c=Page&childpagename=Panduit_Global%2FPG_Lay-out&cid=1345565612156&packedargs=classification_id%3D199, Jul. 23, 2013.

(Continued)

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(57) **CLAIM**

The ornamental design for an aerial support tie, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of an aerial support tie according to the present invention.

FIG. 2 is a left side elevation view of the embodiment of FIG. 1.

FIG. 3 is a right side elevation view of the embodiment of FIG. 1.

FIG. 4 is a top plan view of the embodiment of FIG. 1.

FIG. 5 is a bottom plan view of the embodiment of FIG. 1.

FIG. 6 is a front elevation view of the embodiment of FIG. 1.

FIG. 7 is a rear elevation view of the embodiment of FIG. 1.

FIG. 8 is a perspective view of a second embodiment of an aerial support tie according to the present invention.

FIG. 9 is a left side elevation view of the embodiment of FIG. 8.

FIG. 10 is a right side elevation view of the embodiment of FIG. 8.

FIG. 11 is a top plan view of the embodiment of FIG. 8.

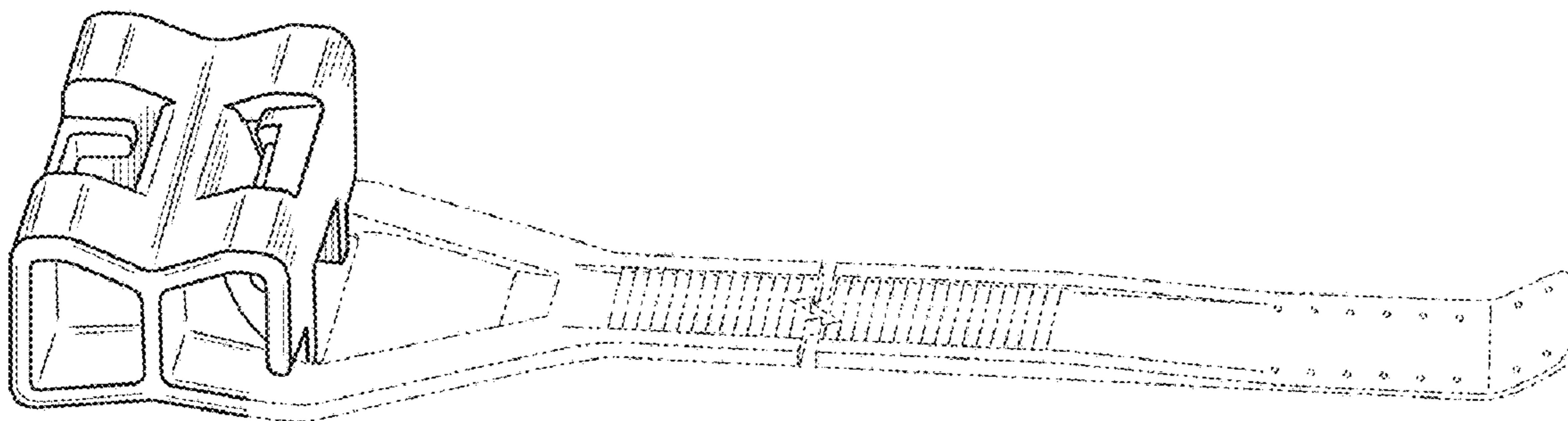
FIG. 12 is a bottom plan view of the embodiment of FIG. 8.

FIG. 13 is a front elevation view of the embodiment of FIG. 8; and,

FIG. 14 is a rear elevation view of the embodiment of FIG. 8.

The broken lines represent portions of the structure that forms no part of the claim.

1 Claim, 4 Drawing Sheets



(58) **Field of Classification Search**
 CPC A63B 27/00; A63B 1/00; H04R 1/1033;
 H01R 13/506; H01R 13/5833; H01R
 31/06; A61M 39/1011; H02G
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,654,669	A	4/1972	Fulton
3,747,164	A	7/1973	Fortsch
3,816,878	A	6/1974	Fulton
3,981,048	A	9/1976	Moody
4,001,898	A	1/1977	Caveney
4,191,334	A	3/1980	Bulanda
4,272,870	A	6/1981	McCormick
4,397,435	A	8/1983	Fisher
D273,361	S	4/1984	Suzuki
RE31,689	E	10/1984	Bulanda
4,498,507	A	2/1985	Thompson
D281,301	S	11/1985	Spolar
4,557,023	A	12/1985	Six
4,562,982	A	1/1986	McSherry
4,574,434	A	3/1986	Shupe
4,665,588	A	5/1987	Nakano
4,819,897	A	4/1989	Gooding
4,860,979	A	8/1989	Camenisch
D305,099	S	12/1989	Naruse et al.
D305,977	S	2/1990	Ono
4,909,051	A	3/1990	Lee
4,993,669	A	2/1991	Dyer
5,083,346	A	1/1992	Orton
5,088,158	A	2/1992	Burkholder
5,102,075	A	4/1992	Dyer
5,117,575	A	6/1992	Desmond
5,131,613	A	7/1992	Kamiya et al.
D334,337	S	3/1993	Ito et al.
5,267,967	A	12/1993	Schneider
D347,156	S	5/1994	Starrett
5,377,387	A	1/1995	Freed
5,398,383	A	3/1995	Bingold
5,416,955	A	5/1995	Katsma
D363,212	S	10/1995	Hill
D368,853	S	4/1996	Liu et al.
5,538,208	A	7/1996	Cordes
5,584,452	A	12/1996	Koike
5,884,367	A	3/1999	Teagno et al.
5,911,368	A	6/1999	Davignon
5,954,302	A *	9/1999	Robertson F16L 3/04 248/73
5,956,813	A	9/1999	Cooper
5,966,781	A	10/1999	Geiger
D417,387	S	12/1999	Kim
D417,838	S	12/1999	Kim
D424,923	S	5/2000	Lodi
6,105,908	A	8/2000	Kraus
6,119,314	A	9/2000	Freed
6,129,317	A	10/2000	Rodrigues
6,151,761	A	11/2000	Thompson
D435,438	S	12/2000	West
6,196,033	B1	3/2001	Dowdle
D442,851	S	5/2001	Wilson
6,240,602	B1	6/2001	Geiger
6,330,989	B1	12/2001	Okamoto
6,363,244	B1	3/2002	McGhee
6,364,257	B1	4/2002	Holder

6,484,366	B1	11/2002	Deschenes
6,532,631	B2	3/2003	Rohaly
6,828,509	B2	12/2004	Ito et al.
D530,600	S	10/2006	Krisel
7,131,168	B2	11/2006	Pangallo
D537,333	S	2/2007	Jowsey
7,229,052	B2 *	6/2007	Takeuchi F16B 21/088 24/16 PB
7,316,375	B2 *	1/2008	Wakabayashi B60R 16/0215 24/16 PB
7,334,299	B2 *	2/2008	Assarsson B65D 63/1018 24/16 B
D565,401	S	4/2008	Grady et al.
D570,673	S	6/2008	Geiger et al.
7,661,633	B2 *	2/2010	Igarashi F16L 3/2334 248/62
7,753,320	B2	7/2010	Geiger et al.
7,753,321	B2	7/2010	Geiger
7,774,905	B2	8/2010	Geiger
7,775,484	B2 *	8/2010	Gunzburger B60R 16/0215 248/74.3
7,789,414	B2	9/2010	Blackburn
D631,731	S	2/2011	Chen
D634,187	S	3/2011	Kozel
8,033,966	B2	10/2011	Ayoub
8,282,047	B2 *	10/2012	Franks F16B 2/08 24/16 R
D670,154	S	11/2012	Kelleghan
8,474,104	B2	7/2013	Watson
8,559,782	B2 *	10/2013	Cleofe H02G 3/30 24/16 PB
8,978,210	B2	3/2015	Arjomand
8,978,211	B2	3/2015	Arjomand
9,067,717	B2 *	6/2015	DeMik B65D 67/02
D741,691	S *	10/2015	Adams D8/356
D741,701	S *	10/2015	McNeil D8/356
D751,888	S *	3/2016	Sakamoto D8/383
2003/0106190	A1	6/2003	Christianson
2006/0265840	A1 *	11/2006	Thompson H02G 3/30 24/16 PB
2007/0057124	A1 *	3/2007	Kwilosz F16L 3/137 248/74.1
2008/0185409	A1	8/2008	Kellenberger
2009/0276983	A1	11/2009	Chan
2010/0071169	A1	3/2010	Williams et al.
2010/0096511	A1 *	4/2010	Olver F16L 3/137 248/65
2010/0306967	A1	12/2010	Geiger
2012/0291231	A1	11/2012	Ku
2015/0033509	A1	2/2015	Dietrich
2015/0210453	A1 *	7/2015	Liang B65D 63/1072 24/16 PB
2016/0009469	A1 *	1/2016	Schneider De Oliveira F16L 3/133 248/636

OTHER PUBLICATIONS

Panduit product page, Aerial Support Ties, www.panduit.com/heiler/CatalogCutSheets/AST10-5-C100%20Product%20Page.pdf, date unknown, 1 page.
 Panduit product page, Sta-Strap Bow-Ty Cable Ties, <http://www.panduit.com/heiler/CatalogCutSheets/SSB2S-C%20Product%20Page.pdf>, date unknown, 1 page.
 HellermannTyton Catalog page, http://wpc.ac62.edgecastcdn.net/00AC62/documents/catalogs/LITPDCMiS_US_Cat.pdf, p. 66, date unknown, 1 page.

* cited by examiner

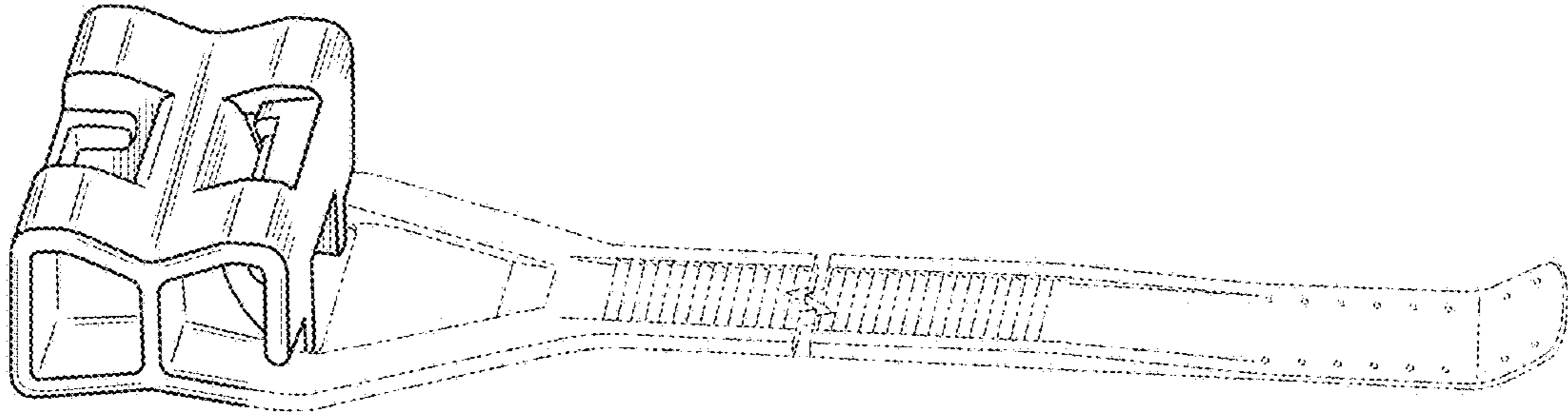


Fig. 1

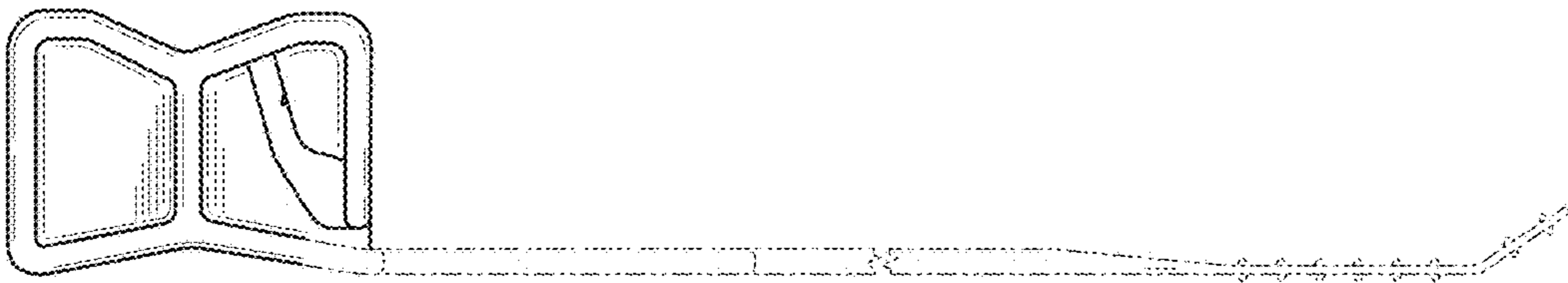


Fig. 2

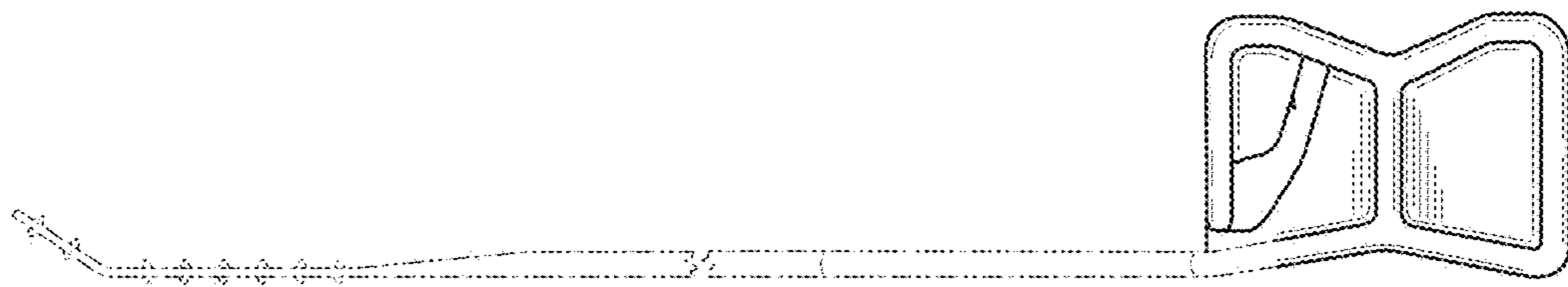


Fig. 3

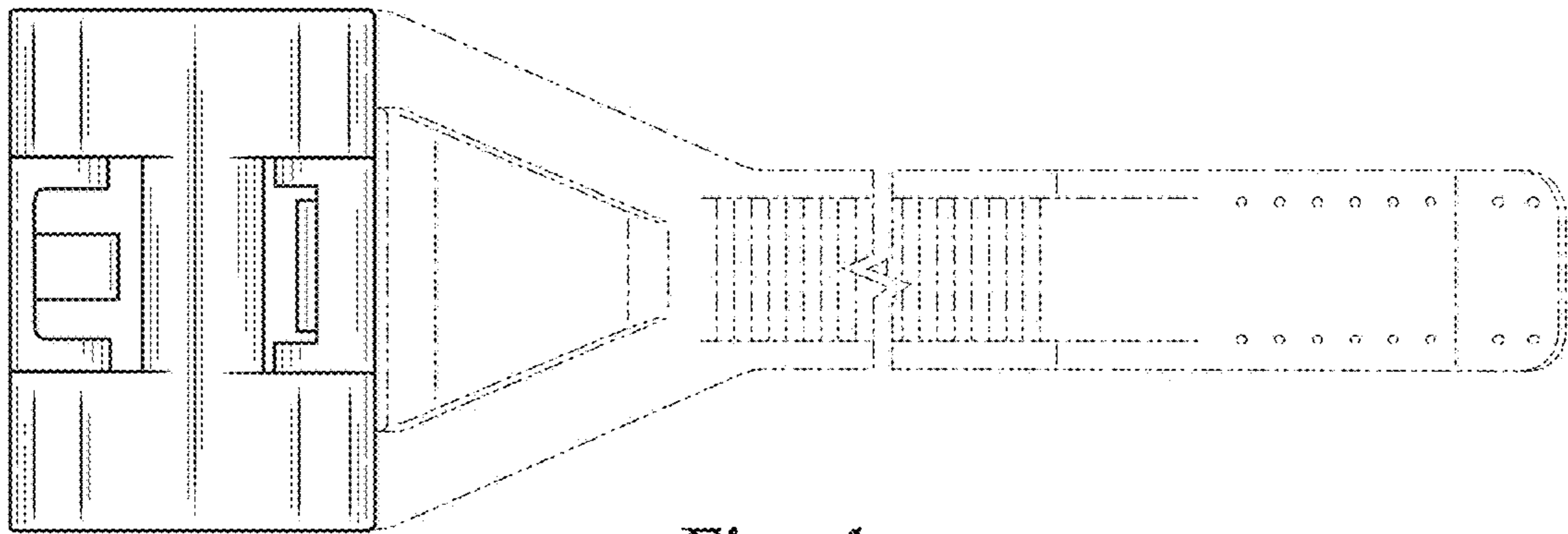


Fig. 4

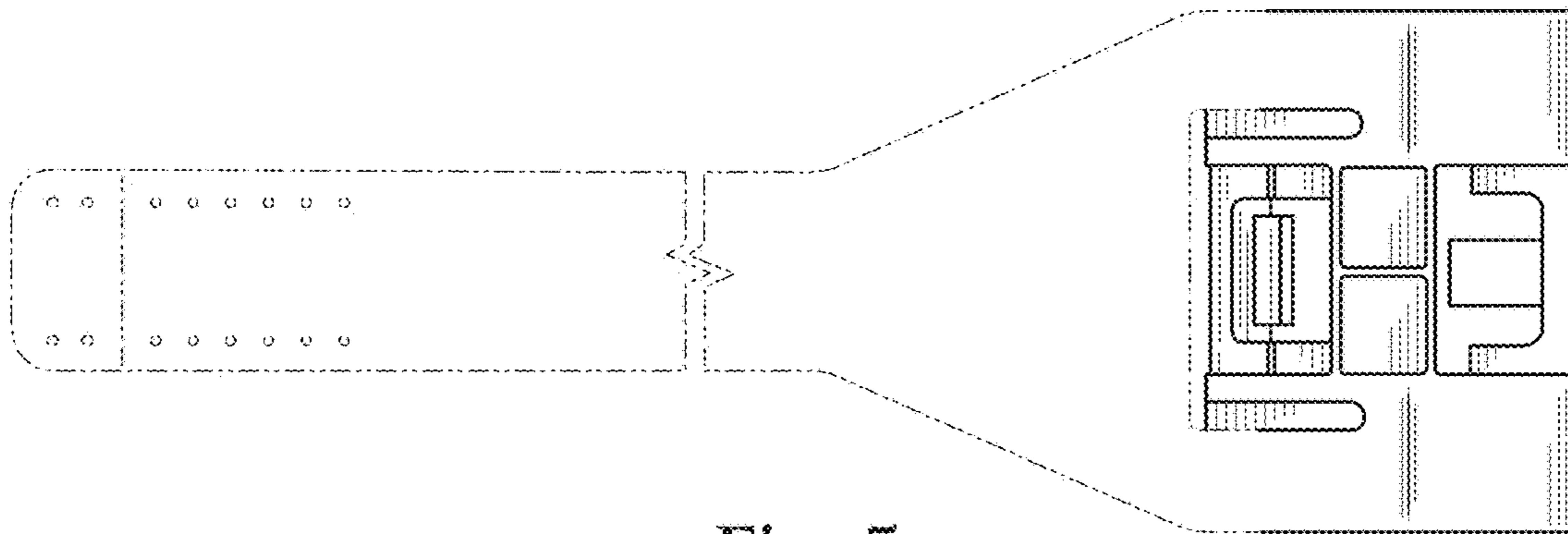


Fig. 5

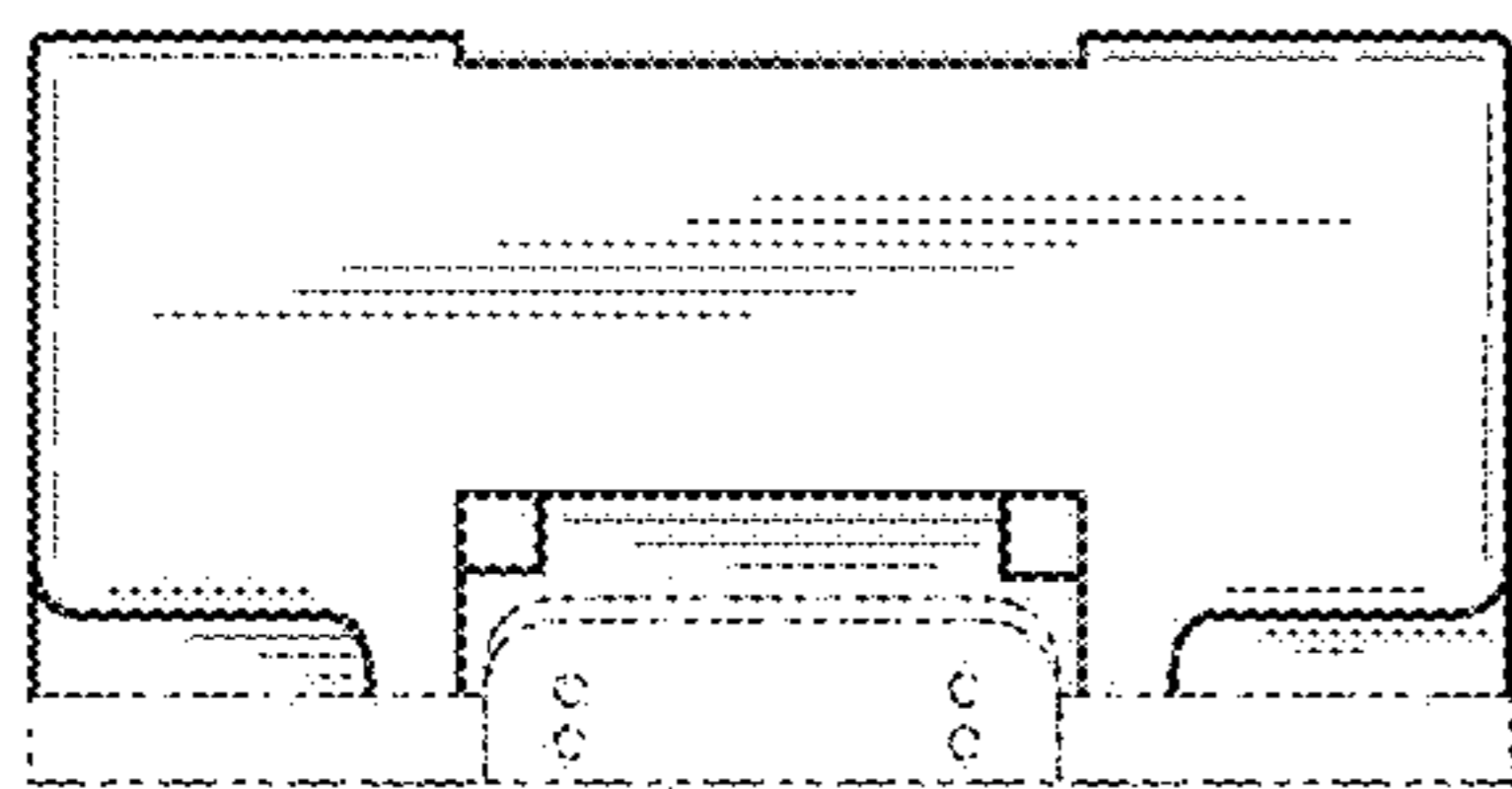


Fig. 6

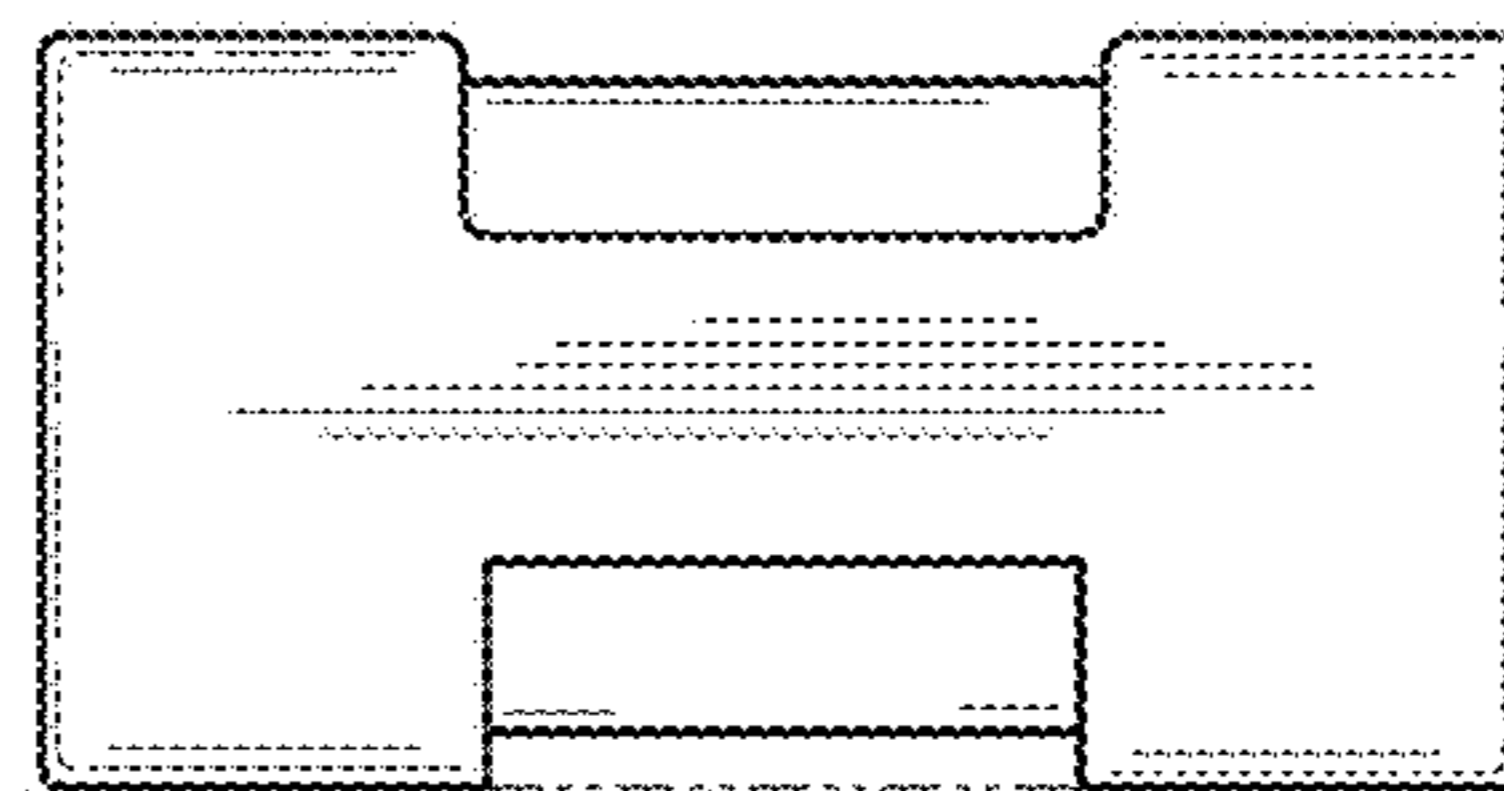


Fig. 7

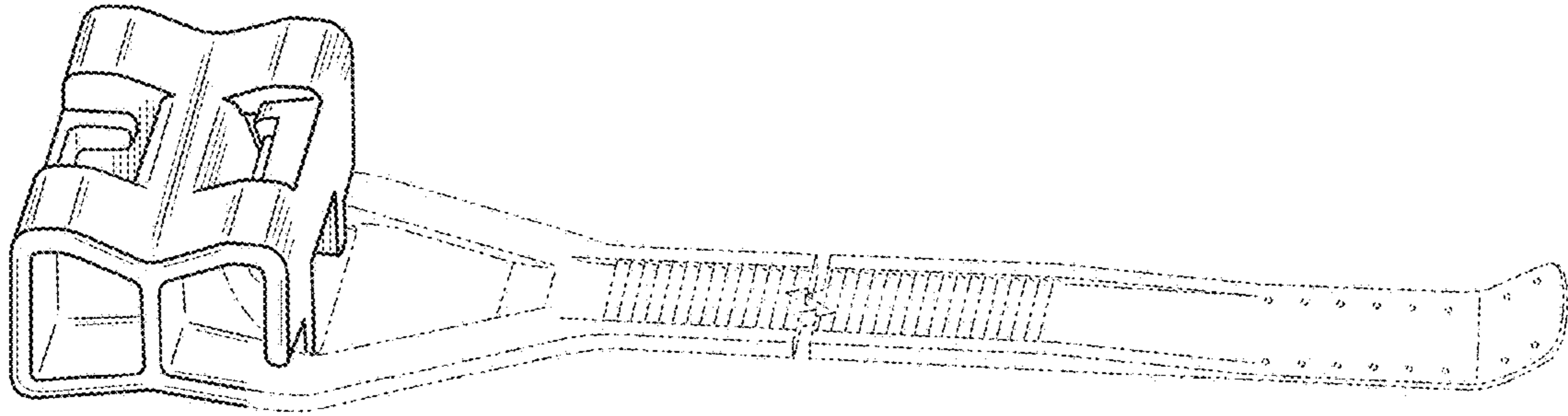


Fig. 8

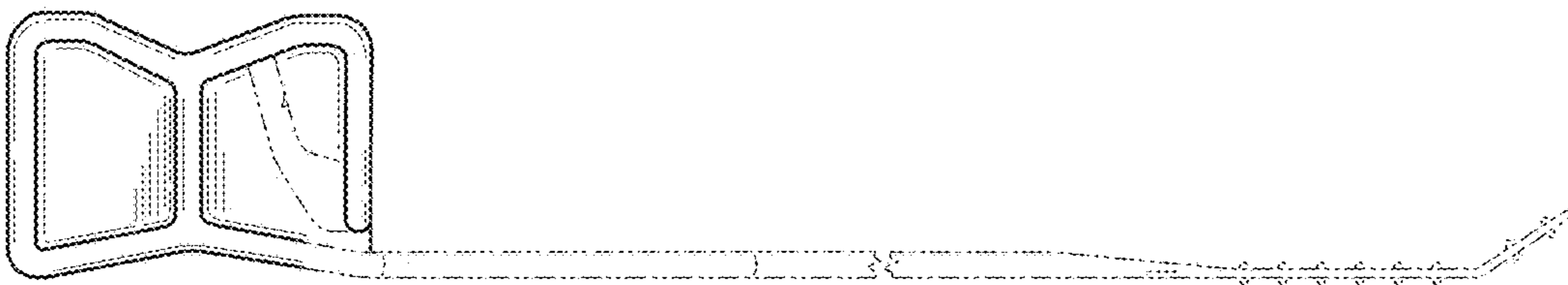


Fig. 9

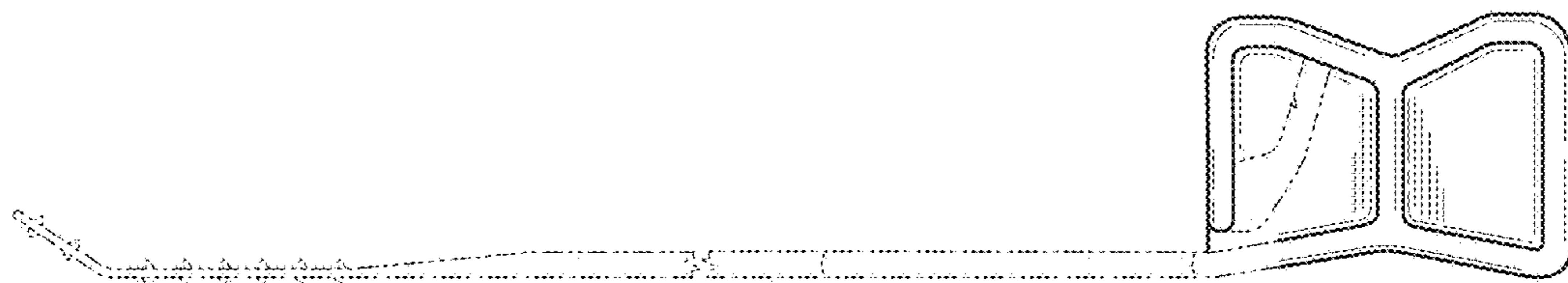


Fig. 10

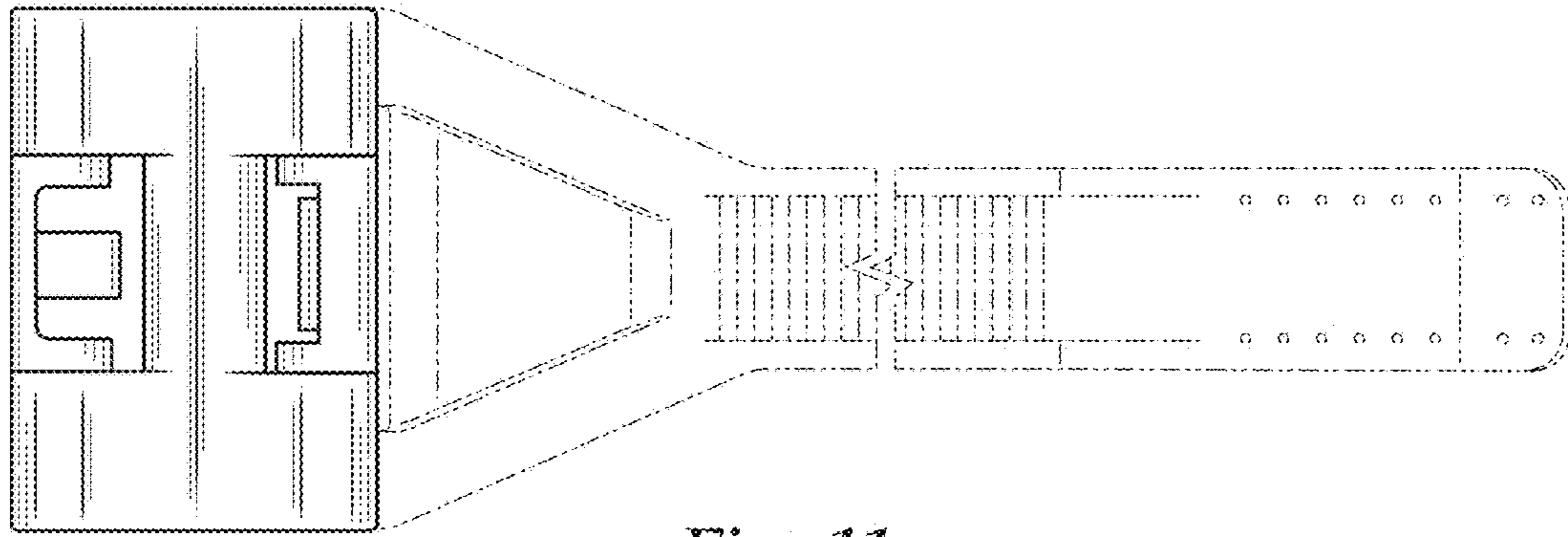


Fig. 11

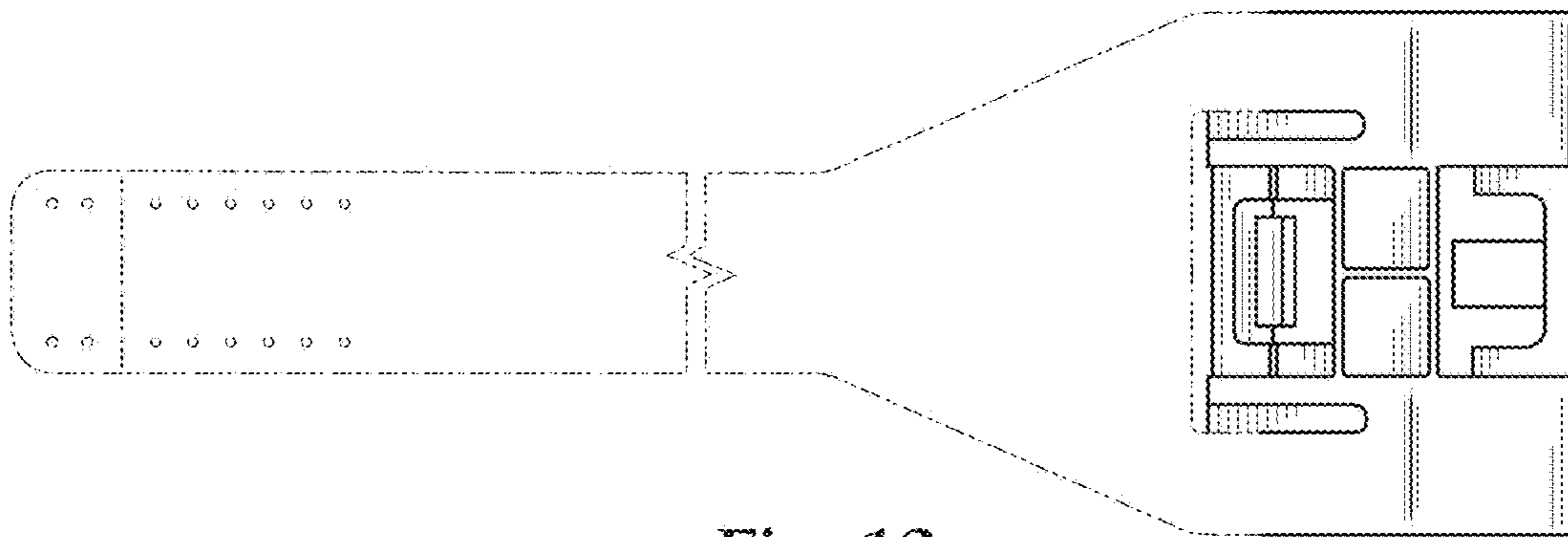


Fig. 12

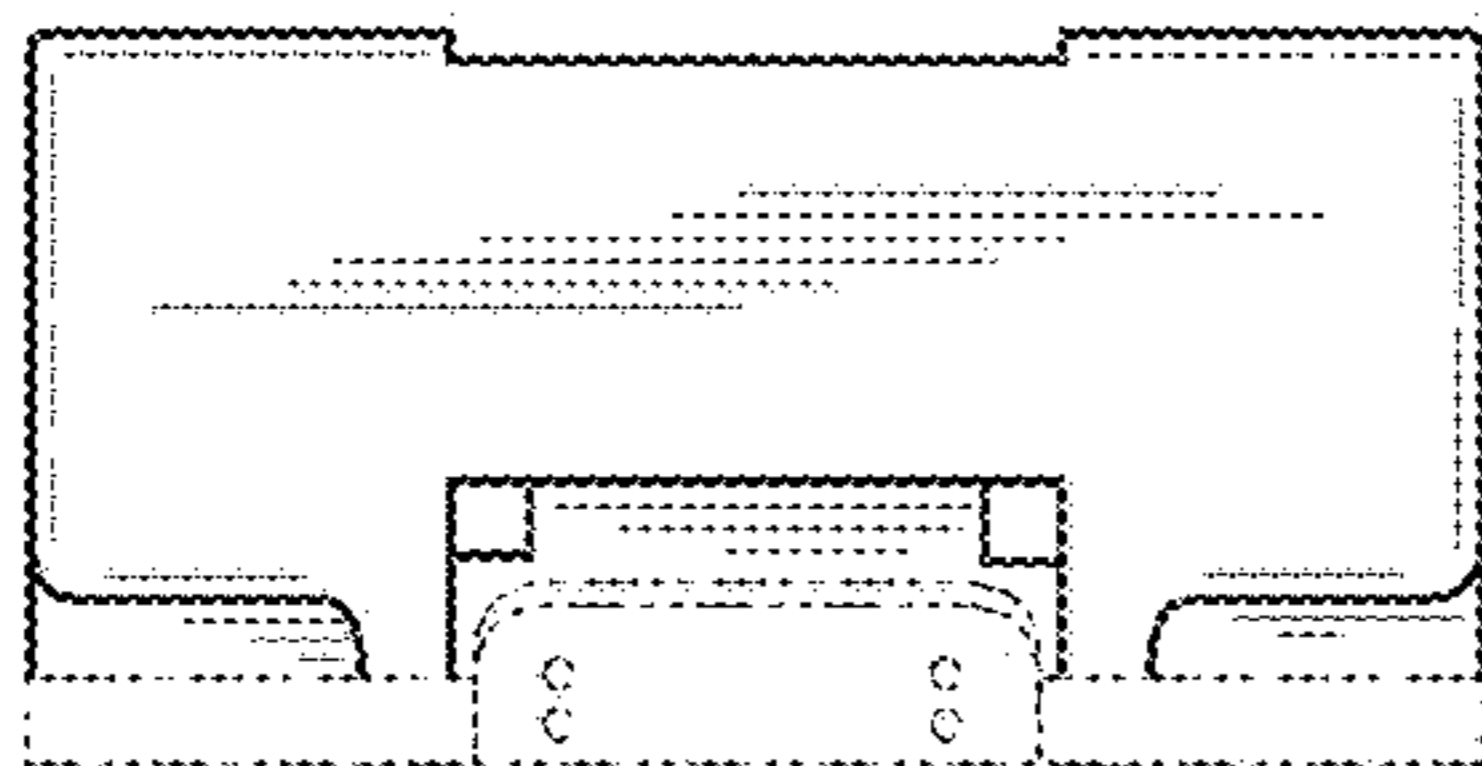


Fig. 13

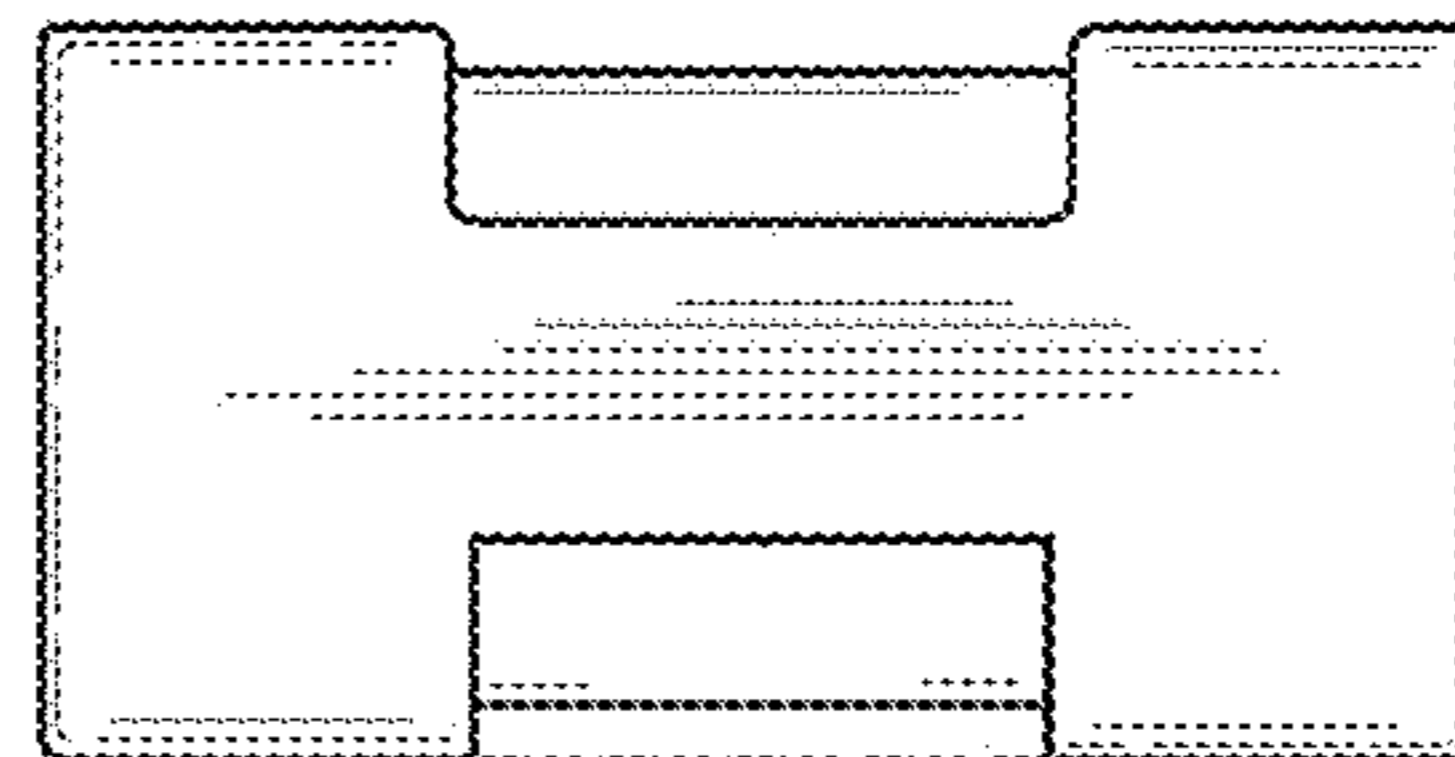


Fig. 14