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(12) United States Design Patent

Hinds et al.

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(54) **BRACE**

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

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(51) **LOC (10) Cl.** **24-04**

(52) **U.S. Cl.**
USPC **D24/190**

(58) **Field of Classification Search**
USPC D24/189, 190; D29/120.1, 121.1, 113
CPC A61F 5/0118; A61F 13/04; A61F 5/05866; A43C 11/165; A43C 11/16
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,759,475	A	8/1956	Van Swaay	
5,695,453	A *	12/1997	Neal	A61F 5/0118 602/21
5,836,902	A	11/1998	Gray	
6,093,161	A	7/2000	Vlaeyen	
D461,600	S *	8/2002	Domanski	D29/113
D536,796	S *	2/2007	Hargrave	D24/190
7,175,603	B2 *	2/2007	Fritsch	A61F 5/0118 2/16
D603,969	S *	11/2009	Bauerfeind	D24/190
D617,464	S *	6/2010	Weaver, II	D24/190
7,867,182	B2	1/2011	Iglesias	
D665,088	S *	8/2012	Joseph	D24/190
8,303,527	B2 *	11/2012	Joseph	A61F 5/01 128/869
D687,556	S *	8/2013	Joseph	D24/190
8,622,946	B2	1/2014	Ingimundarson	
D757,277	S *	5/2016	Chen	D24/190
9,387,111	B2 *	7/2016	Klutts	A61F 5/013
D767,774	S *	9/2016	Wellendorf	D24/190

(Continued)

FOREIGN PATENT DOCUMENTS

WO	WO 2014/093851	6/2014

OTHER PUBLICATIONS

3ders.org, "Lab+ shares designs for 3D printed, thermoformed wrist brace", Oct. 4, 2014, pp. 1-4, http://www.3ders.org/articles/20141004-lab-shares-designs-for-3d-printed-thermoformed-wrist-brace.html.

(Continued)

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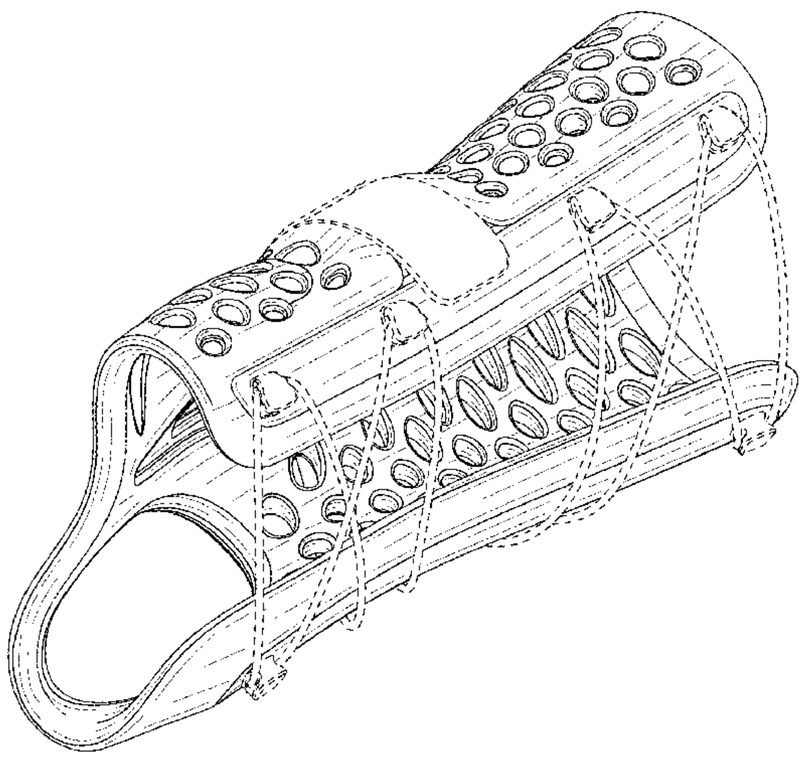
(57) **CLAIM**

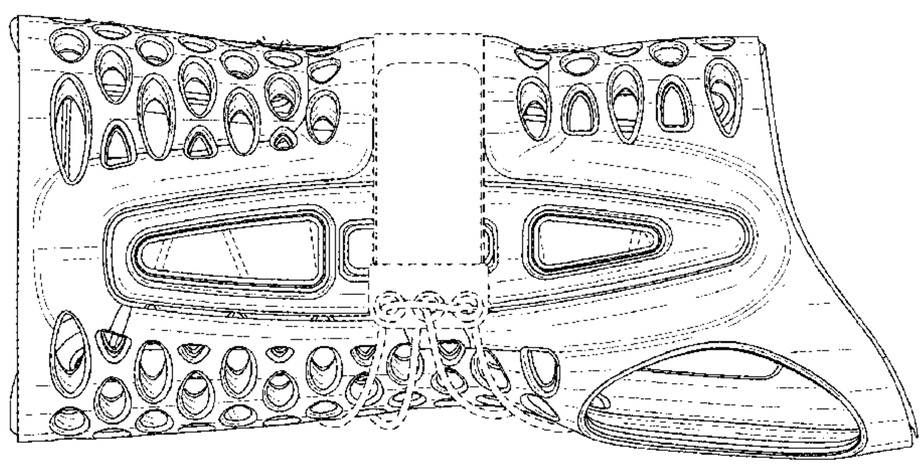
The ornamental design for a brace, as shown and described.

DESCRIPTION

FIG. **1** is a perspective view showing a new design for a brace;
FIG. **2** is a bottom view thereof;
FIG. **3** is a front view thereof;
FIG. **4** is a rear view thereof;
FIG. **5** is a top view thereof;
FIG. **6** is a left side view thereof; and,
FIG. **7** is a right side view thereof.
The portions of the brace in FIGS. **1-7** shown in broken lines are included to show features that form no part of the claimed design.

1 Claim, 3 Drawing Sheets





(56) **References Cited**

U.S. PATENT DOCUMENTS

2006/0052730	A1*	3/2006	Hargrave	A61F 5/0111 602/5
2006/0155226	A1*	7/2006	Grim	A61F 5/01 602/6
2007/0225629	A1*	9/2007	Israel	A61F 5/0118 602/21
2008/0066272	A1*	3/2008	Hammerslag	A43C 11/14 24/712
2010/0262054	A1	10/2010	Summit	
2011/0130694	A1*	6/2011	Livolsi	A61F 5/0118 602/21
2012/0101417	A1*	4/2012	Joseph	A61F 5/01 602/5

OTHER PUBLICATIONS

3ders.org, "Software makes it easy to design & 3D print wrist splints for arthritis sufferers", Jul. 1, 2014, pp. 1-2, http://www.3ders.org/articles/20140701-software-makes-it-easy-to-design-3d-print-wrist-splints-for-arthritis-sufferers.html.

* cited by examiner

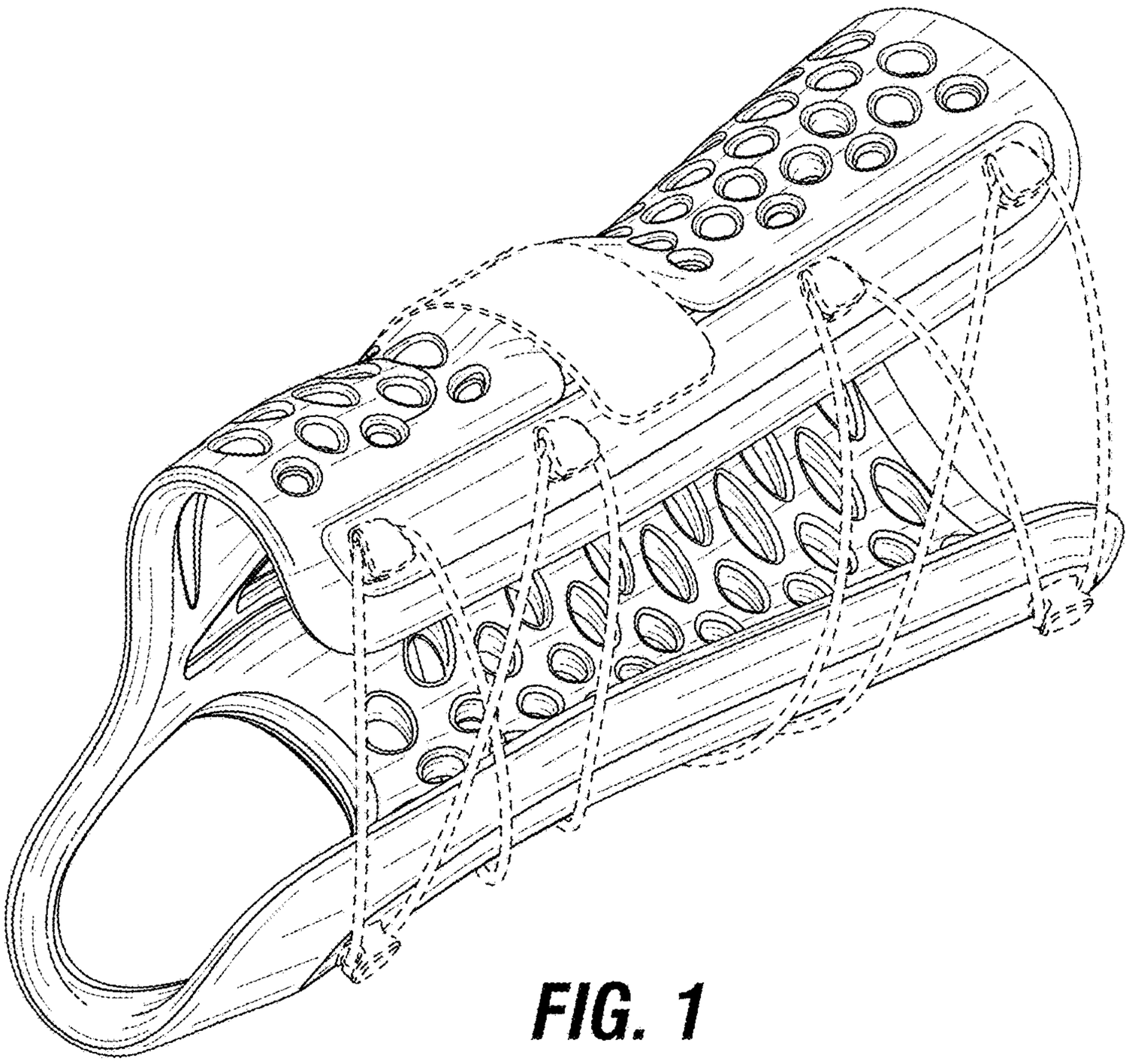


FIG. 1

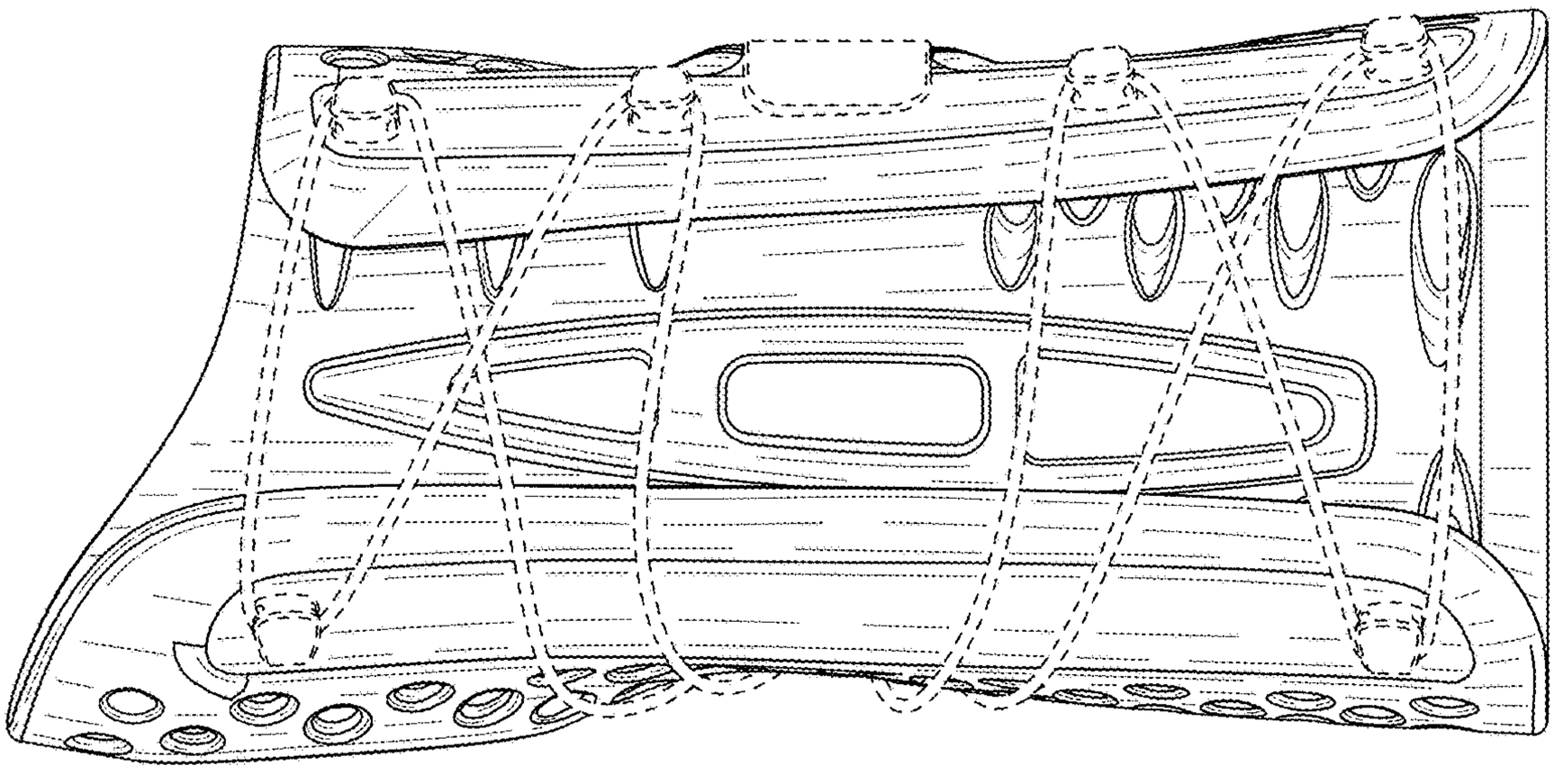


FIG. 2

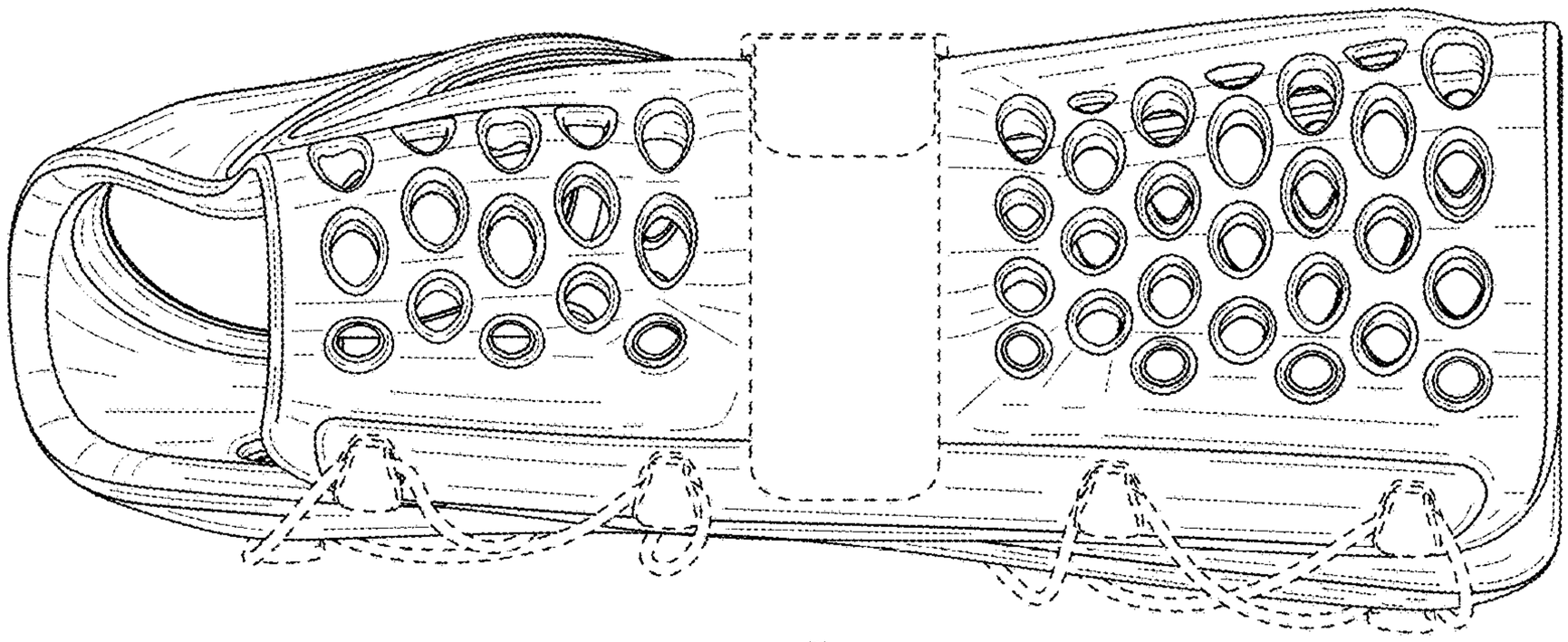


FIG. 3

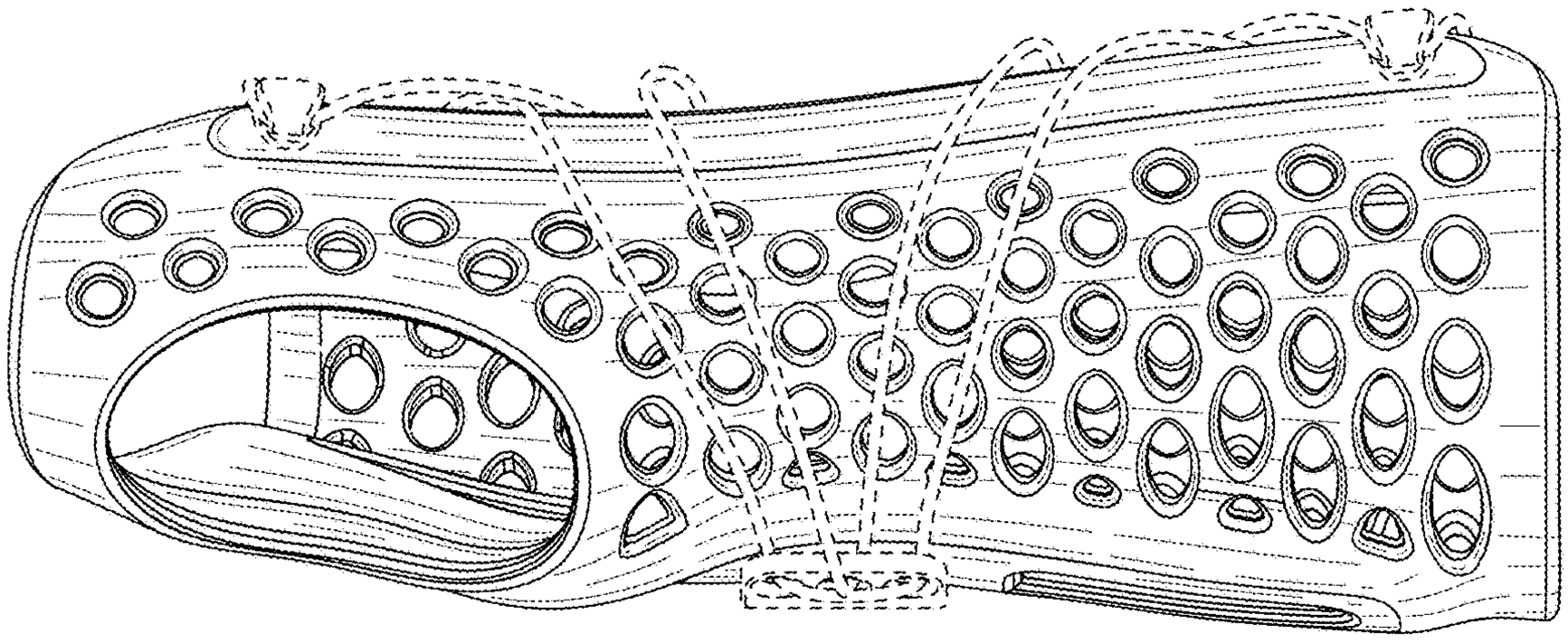


FIG. 4

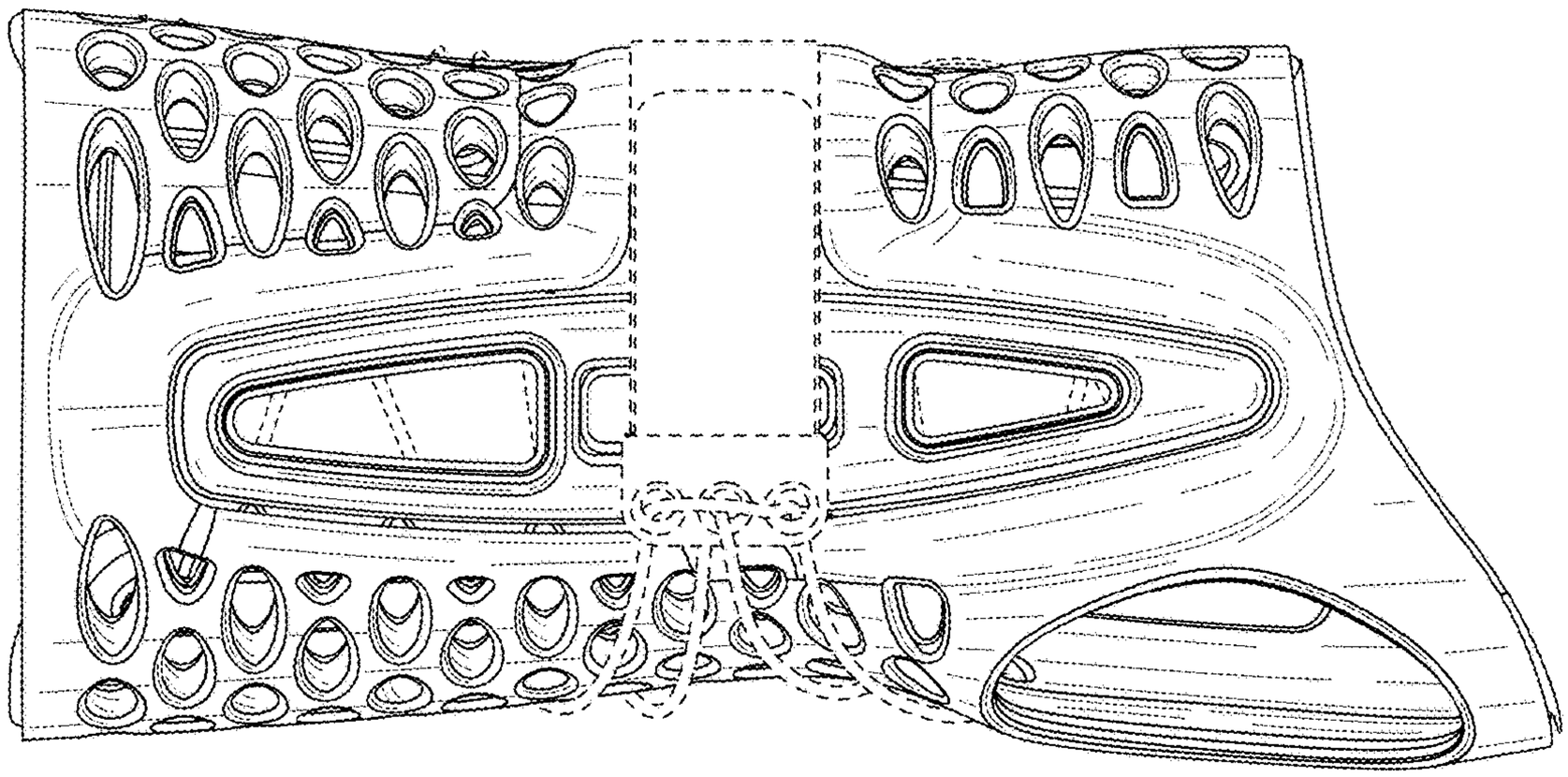


FIG. 5

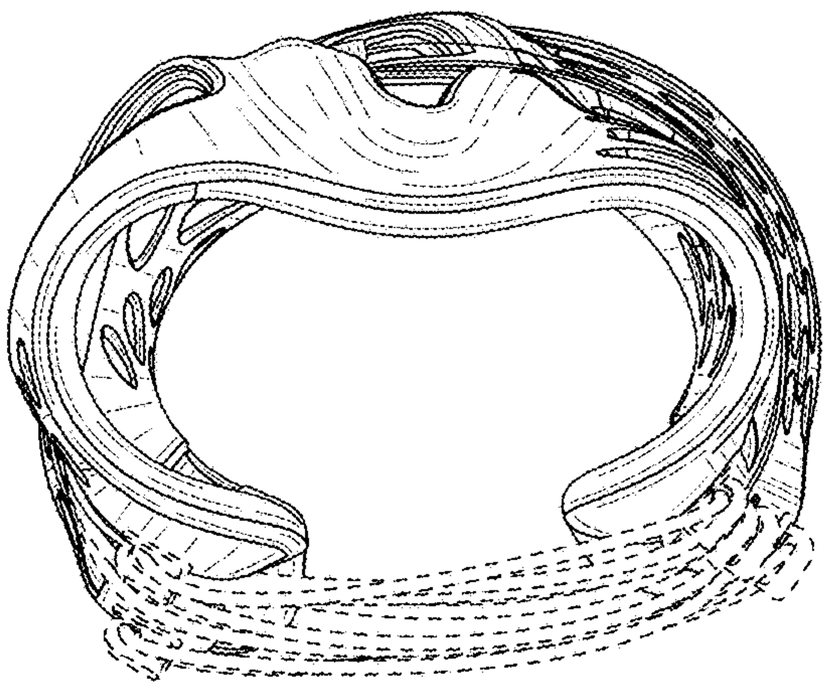


FIG. 6

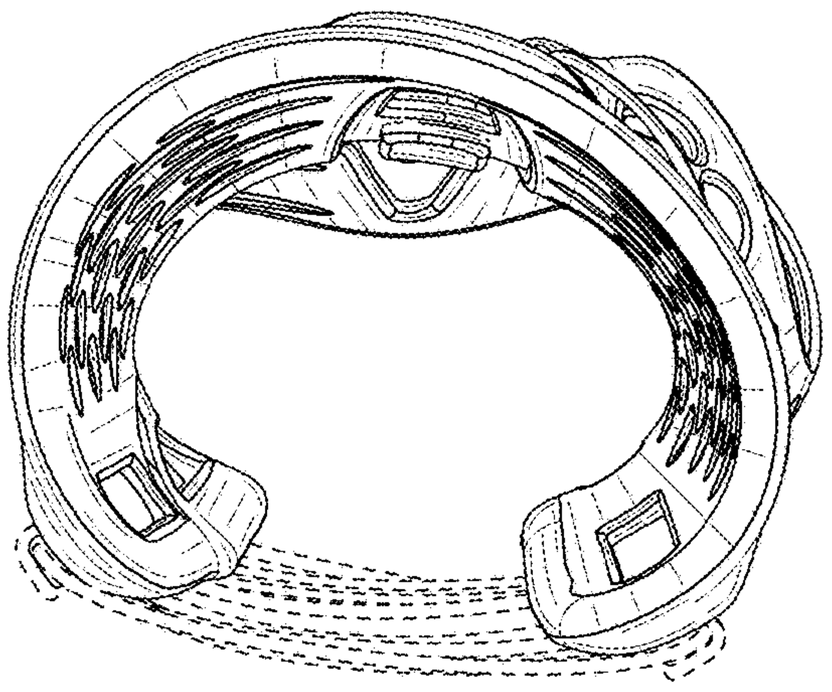


FIG. 7