US00D961768S

(12) United States Design Patent

Stevens et al.

(10) Patent No.: US D961,768 S
(45) Date of Patent: ** Aug. 23, 2022

(54) **INCONTINENCE SENSOR BRIEF**

(71) Applicant: **RSC Associates, Inc.**, Bowling Green, OH (US)

(72) Inventors: **Thomas Reed Stevens**, Palo Alto, CA (US); **Chad Kamil Hickson**, Cincinnati, OH (US)

(73) Assignee: **RSC ASSOCIATES, INC.**, Bowling Green, OH (US)

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

(21) Appl. No.: **29/693,680**

(22) Filed: **Jun. 4, 2019**

(51) **LOC (13) Cl.** **24-04**

(52) **U.S. Cl.**
USPC **D24/126**

(58) **Field of Classification Search**
USPC D24/124–126, 187, 189, 190, 132, 136, D24/128; D2/700, 701, 711, 712, 713, D2/714, 706, 766, 767, 785, 811, 819; D5/21, 25, 29, 35, 37, 39, 53, 59, 60, 61, D5/32, 40, 57; D29/101.5, 119, 121.1, D29/124; D6/354
CPC A61F 13/15; A61F 13/64; A61F 13/476; A61F 13/5611; A61F 13/5633; A61F 13/4704; A61F 13/535; A61F 13/539; A61F 13/47; A61F 13/531; A61F 2013/16; A61F 2013/4708; A61F 13/62; A61F 13/505; A61F 13/55115; A61F 13/551; A61L 15/00; A61L 26/00; B32B 7/12; B32B 5/022
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D354,130 S * 1/1995 Johnson D24/126
D378,407 S * 3/1997 Bunton D24/126
D384,487 S * 10/1997 Ingels D2/713
5,807,371 A * 9/1998 Toyoda A61F 13/5512 428/343
5,853,405 A * 12/1998 Suprise A61F 13/496 604/391

(Continued)

FOREIGN PATENT DOCUMENTS

CN 3347844 * 1/2004

OTHER PUBLICATIONS

Abena Nova, [site visited Oct. 19, 2021]. Available from Internet. URL: https://www.abenanova.com/about/ (Year: 2021).*

(Continued)

Primary Examiner — T Chase Nelson
Assistant Examiner — Kelly L Gross
(74) *Attorney, Agent, or Firm* — Shumaker, Loop & Kendrick, LLP; James D. Miller

(57) **CLAIM**

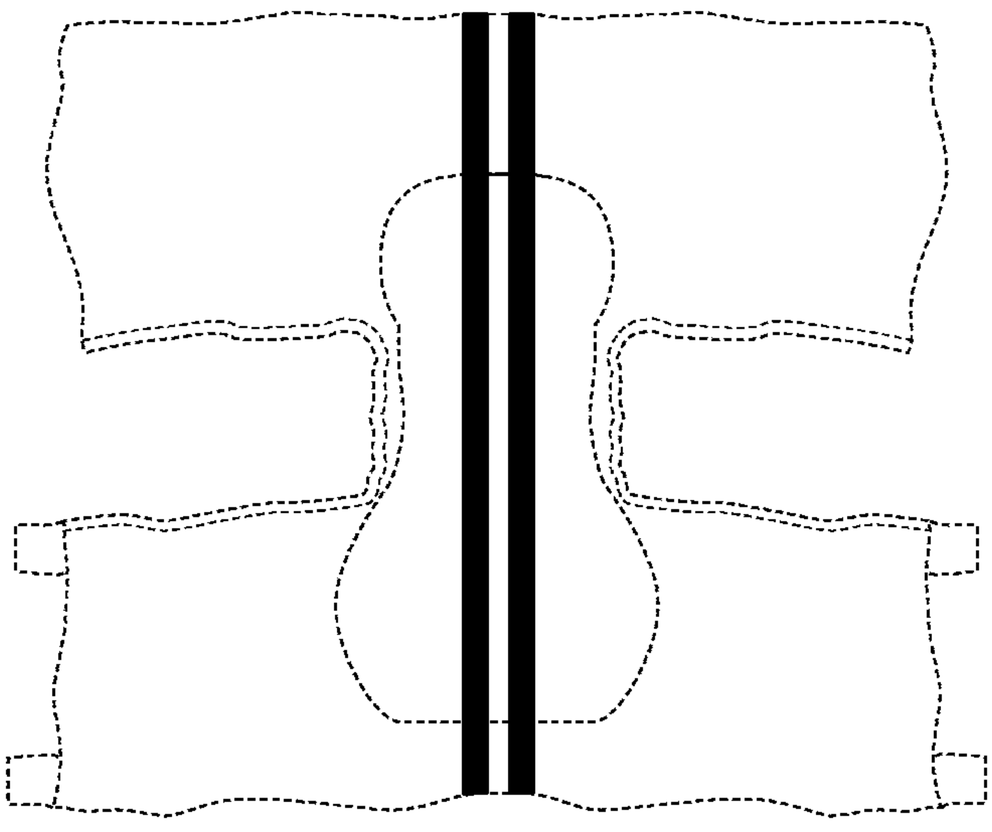
The ornamental design for an incontinence sensor brief, as shown and described.

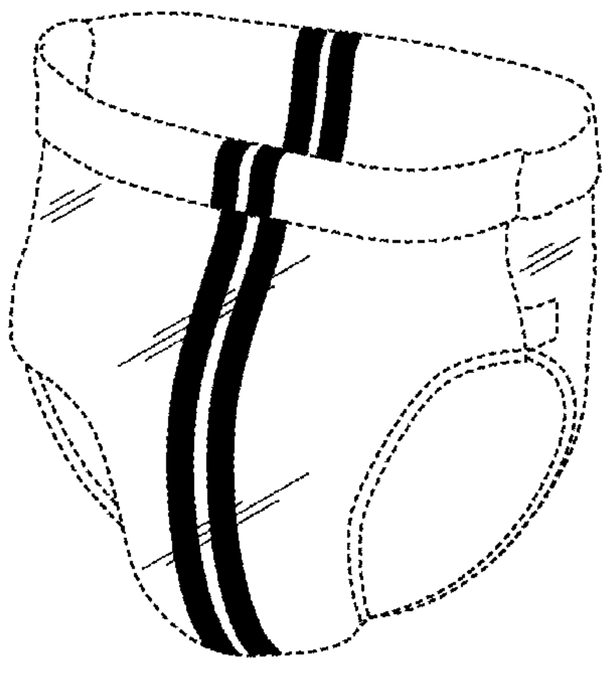
DESCRIPTION

FIG. **1** is a top view of an incontinence sensor brief in accordance with the present design;
FIG. **2** is a bottom view thereof;
FIG. **3** is a right view thereof;
FIG. **4** is a left view thereof;
FIG. **5** is front view thereof;
FIG. **6** is rear view thereof; and,
FIG. **7** is a front perspective view of the incontinence sensor brief showing an alternate configuration for a state of use, coupled in accordance with the present design.

The broken lines provided herein show portions of the incontinence sensor brief that form no part of the claimed design. The diagonal hatching provided herein illustrate a claimed transparent layer.

1 Claim, 4 Drawing Sheets





(56) **References Cited**

U.S. PATENT DOCUMENTS

5,897,545	A *	4/1999	Kline	A61F 13/5655 604/386
5,997,521	A *	12/1999	Robles	A61F 13/49015 604/385.22
D421,802	S *	3/2000	Van Gompel	D24/124
D422,077	S *	3/2000	Suprise	D24/126
D422,078	S *	3/2000	Vukos	D24/124
6,149,637	A *	11/2000	Allen	A61F 13/49009 604/366
6,306,121	B1 *	10/2001	Damaghi	A61F 13/49011 604/385.03
D456,508	S *	4/2002	Schroeder	D24/124
6,468,257	B1 *	10/2002	Ono	A61F 13/505 604/391
D473,644	S *	4/2003	Carr	A61F 13/15747 D24/126
6,558,499	B1 *	5/2003	Pargass	A61F 13/15772 116/200
D478,169	S *	8/2003	Sosalla	D24/126
6,623,465	B1 *	9/2003	Roe	A61F 13/475 604/385.03
6,626,879	B1 *	9/2003	Ashton	A61F 13/496 604/385.03
6,797,856	B1 *	9/2004	Kolb	A61F 13/496 2/67
D498,298	S *	11/2004	Otsubo	D24/124
D522,653	S *	6/2006	Otsubo	D24/126
D679,390	S *	4/2013	Hedbratt	D24/126
D787,051	S *	5/2017	Gaston	D24/126
D788,294	S *	5/2017	Cardenas	D24/126
9,675,499	B2 *	6/2017	Evenson	A61F 13/505
D792,967	S *	7/2017	Moritani	D24/126
D802,754	S *	11/2017	Borrero	D24/126
D806,868	S *	1/2018	Melendez	D24/126
D813,496	S *	3/2018	Yeoh	D2/712
10,172,747	B2 *	1/2019	May	A61F 13/4915
D841,800	S *	2/2019	Saadia	D24/126
D882,769	S *	4/2020	Hirsch	A61F 13/15203 D24/124
D882,777	S *	4/2020	Delka	A61F 13/42 D24/126
D889,640	S *	7/2020	Raycheck	D24/126
10,869,788	B2 *	12/2020	Manabe	A61F 13/15617
D922,570	S *	6/2021	Houmas	D24/126
11,045,364	B2 *	6/2021	Wildeman	D04B 21/02
D931,440	S *	9/2021	Beck	D24/126
D936,216	S *	11/2021	Smet	D24/126
D938,019	S *	12/2021	Camerl	D24/126
D938,020	S *	12/2021	Sullivan	D24/126
D938,021	S *	12/2021	Sullivan	D24/126
D942,619	S *	2/2022	Moore-Jones	D24/126
2003/0158532	A1 *	8/2003	Magee	A61F 13/5633 604/385.01
2003/0181883	A1 *	9/2003	Olson	A61F 13/496 604/385.01
2006/0047260	A1 *	3/2006	Ashton	A61F 13/49012 604/396
2006/0229578	A1 *	10/2006	Roe	A61F 13/42 604/361
2008/0103414	A1 *	5/2008	Song	G01N 33/558 600/573
2008/0140038	A1 *	6/2008	Sasayama	A61F 13/15739 604/367
2008/0140042	A1 *	6/2008	Mukai	A61F 13/49426 604/385.23
2008/0147030	A1 *	6/2008	Nhan	A61F 13/42 604/361
2008/0195071	A1 *	8/2008	Ponomarenko	A61F 13/511 604/378
2009/0315728	A1 *	12/2009	Ales, III	A61F 13/42 340/604
2009/0326417	A1 *	12/2009	Ales, III	G16H 40/67 600/584
2011/0118689	A1 *	5/2011	Een	A61F 13/15593 604/385.3
2011/0196332	A1 *	8/2011	Cheng	A61F 13/15203 604/385.24
2012/0152447	A1 *	6/2012	Schneider	A61F 13/15747 156/227
2012/0157948	A1 *	6/2012	Nhan	A61F 13/42 604/361
2012/0157958	A1 *	6/2012	Tenorio	A61F 13/15593 604/385.25
2012/0323206	A1 *	12/2012	McMorrow	A61F 13/49413 604/385.24
2013/0018340	A1 *	1/2013	Abraham	A61F 13/42 604/361
2013/0034719	A1 *	2/2013	Zhou	A61F 13/42 428/304.4
2013/0231629	A1 *	9/2013	Paveletzke	A61F 13/62 604/386
2016/0175165	A1 *	6/2016	Schneider	A61F 13/15747 604/385.3
2016/0346136	A1 *	12/2016	Strasemeier	A61F 13/49001
2017/0112683	A1 *	4/2017	Fukasawa	A61F 13/84
2017/0239104	A1 *	8/2017	Jang	A61F 13/49011
2018/0116878	A1 *	5/2018	MacNaughton	G16H 10/65
2019/0183690	A1 *	6/2019	Nhan	A61L 15/28
2019/0374402	A1 *	12/2019	Morimoto	A61F 13/49061
2019/0380885	A1 *	12/2019	Enz	A61F 13/495
2019/0388029	A1 *	12/2019	Stevens	A61F 13/42
2020/0138635	A1 *	5/2020	Saito	A61F 13/15585
2020/0268565	A1 *	8/2020	Ling	A61F 13/51496
2020/0268566	A1 *	8/2020	Tally	A61F 13/5644
2020/0297550	A1 *	9/2020	Back	A61F 13/55105
2020/0297555	A1 *	9/2020	Ramos Medina	A61F 13/622
2020/0323710	A1 *	10/2020	Van Schie	A61F 13/5515

OTHER PUBLICATIONS

Design of a Smart Diaper, [site visited Oct. 19, 2021]. Available from Internet. URL: https://www.semanticscholar.org/paper/A-Design-of-Smart-Diaper-Wet-Detector-Using-and-Simik-Chi/498f07212c83bc2b347cf6b77559da318674ed28 . . . (Year: 2021).*

* cited by examiner

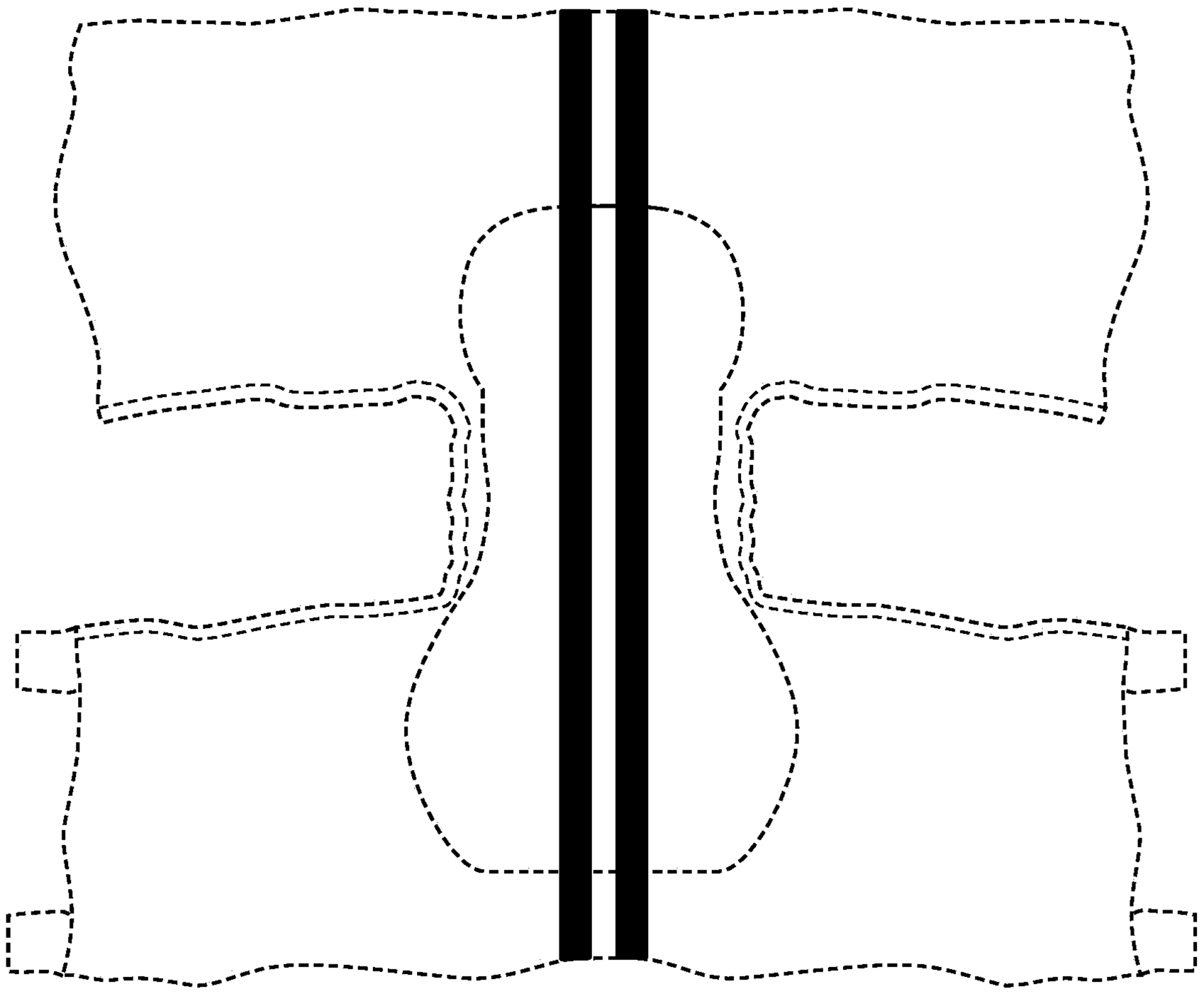


FIG. 1

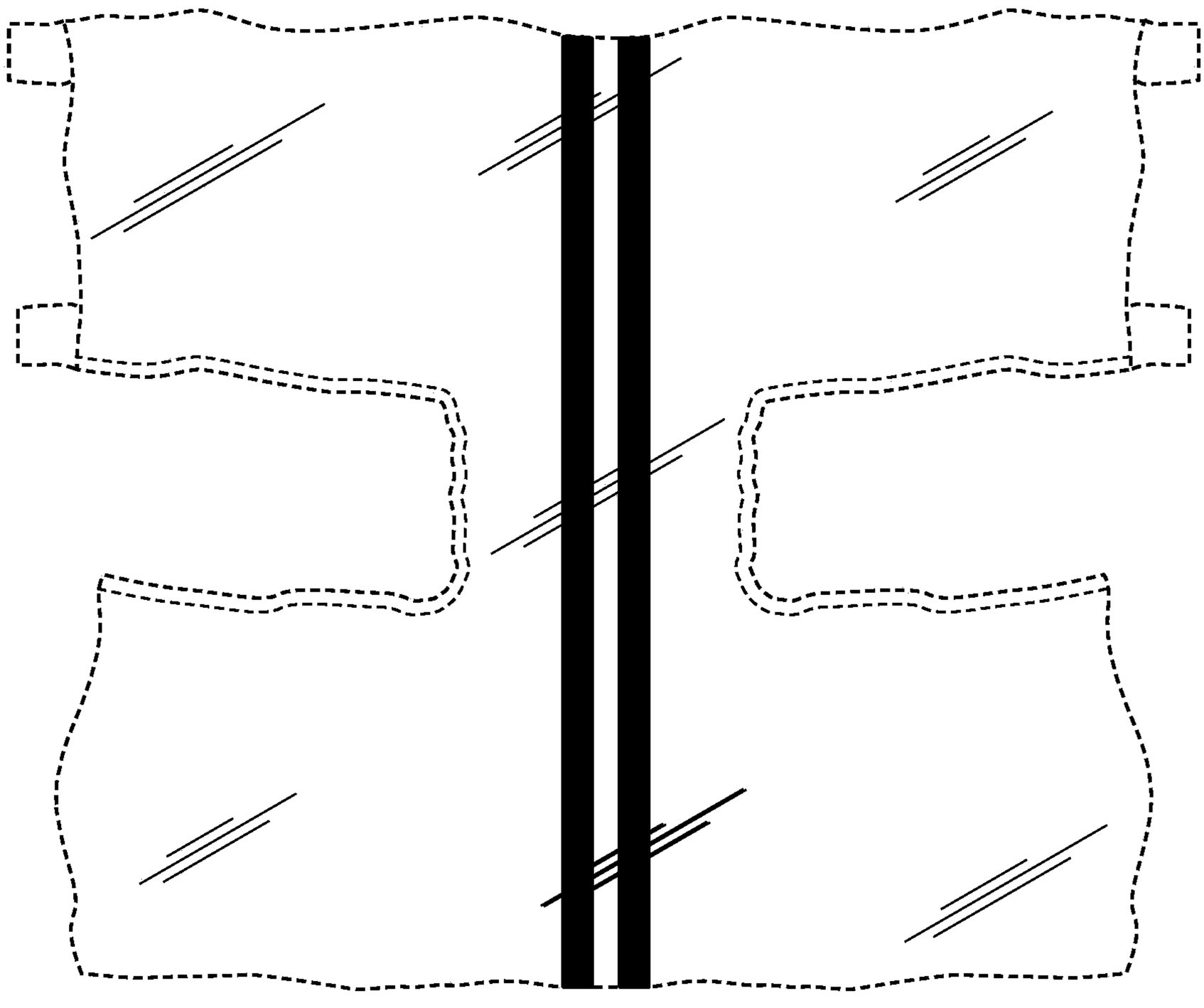


FIG. 2

FIG. 3

FIG. 4

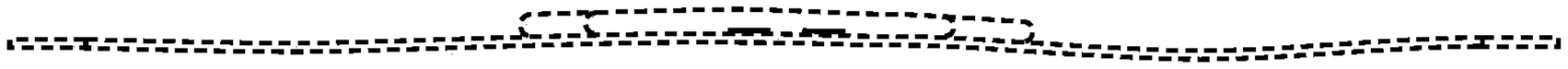


FIG. 5

FIG. 6

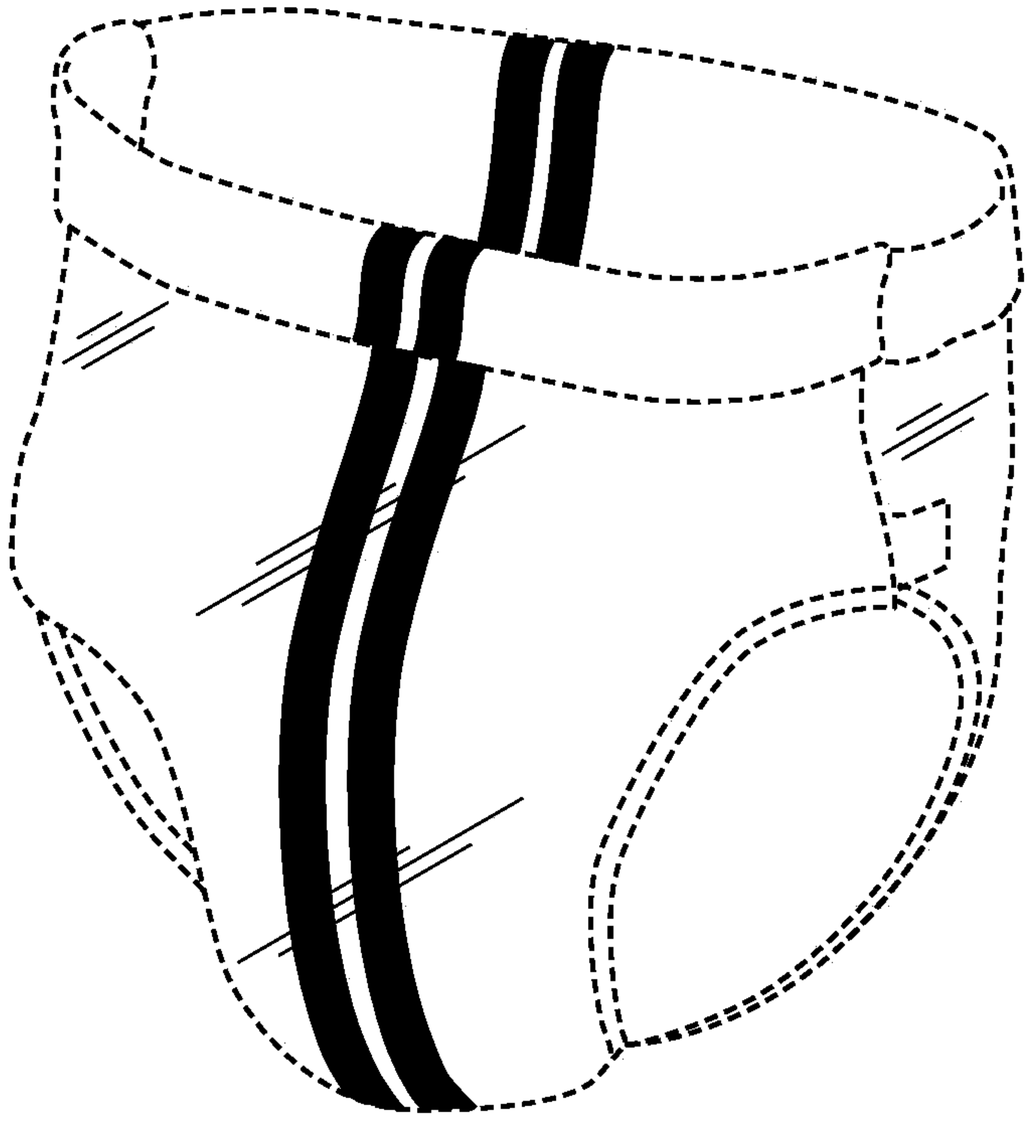


FIG. 7