



US00D807350S

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

(10) **Patent No.:** **US D807,350 S**
(45) **Date of Patent:** **** Jan. 9, 2018**

(54) **WEARABLE DEVICE HAVING FLEXIBLE DISPLAY PANEL**

(71) Applicant: **FLEXTERRA, INC.**, Skokie, IL (US)

(72) Inventors: **Philippe Inagaki**, Skokie, IL (US);
Ann Laurent Torres, San Francisco, CA (US); **Remy O’leary Pieron**, San Francisco, CA (US); **Perry Anderson**, Kensington, CA (US); **Hjalmar Edzer Ayco Huitema**, Belmont, CA (US); **Josh Morenstein**, San Francisco, CA (US); **Nick Cronan**, San Francisco, CA (US); **Christian Scott Ross**, San Francisco, CA (US); **Samuel Mason Curry**, Oakland, CA (US)

(73) Assignee: **FLEXTERRA, INC.**, Skokie, IL (US)

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

(21) Appl. No.: **29/532,226**

(22) Filed: **Jul. 2, 2015**

(51) **LOC (11) Cl.** **14-02**

(52) **U.S. Cl.**
USPC **D14/344**

(58) **Field of Classification Search**
USPC D14/344, 138 R, 144, 358; D24/167, D24/169, 186–187; D11/3, 93–94;
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D284,356 S * 6/1986 Porsche D10/32
7,209,114 B2 * 4/2007 Radley-Smith A44C 5/0007
345/156

(Continued)

FOREIGN PATENT DOCUMENTS

EP 1599110 A1 11/2005
KR 3020130009576 2/2013

(Continued)

OTHER PUBLICATIONS

Philips Fluid Flexible Concept Phone, posted Dec. 5, 2010, [retrieved Jun. 24, 2017]. Retrieved from Internet, <URL: <http://ebuzzmagg.blogspot.com/2010/12/philips-fluid-flexible-concept-phone.html> >.*

(Continued)

Primary Examiner — Barbara Fox

Assistant Examiner — Kristin E Reed

(74) *Attorney, Agent, or Firm* — Marshall, Gerstein & Borun LLP

(57) **CLAIM**

The ornamental design for a wearable device having flexible display panel, as shown and described.

DESCRIPTION

FIG. 1 is a left, front perspective view of a wearable device having flexible display panel of the present invention, in an open configuration;

FIG. 2 is a rear elevational view thereof;

FIG. 3 is a front elevational view thereof;

FIG. 4 is a right elevational view thereof;

FIG. 5 is a left elevational view thereof;

FIG. 6 is a top plan view thereof;

FIG. 7 is a bottom plan view thereof;

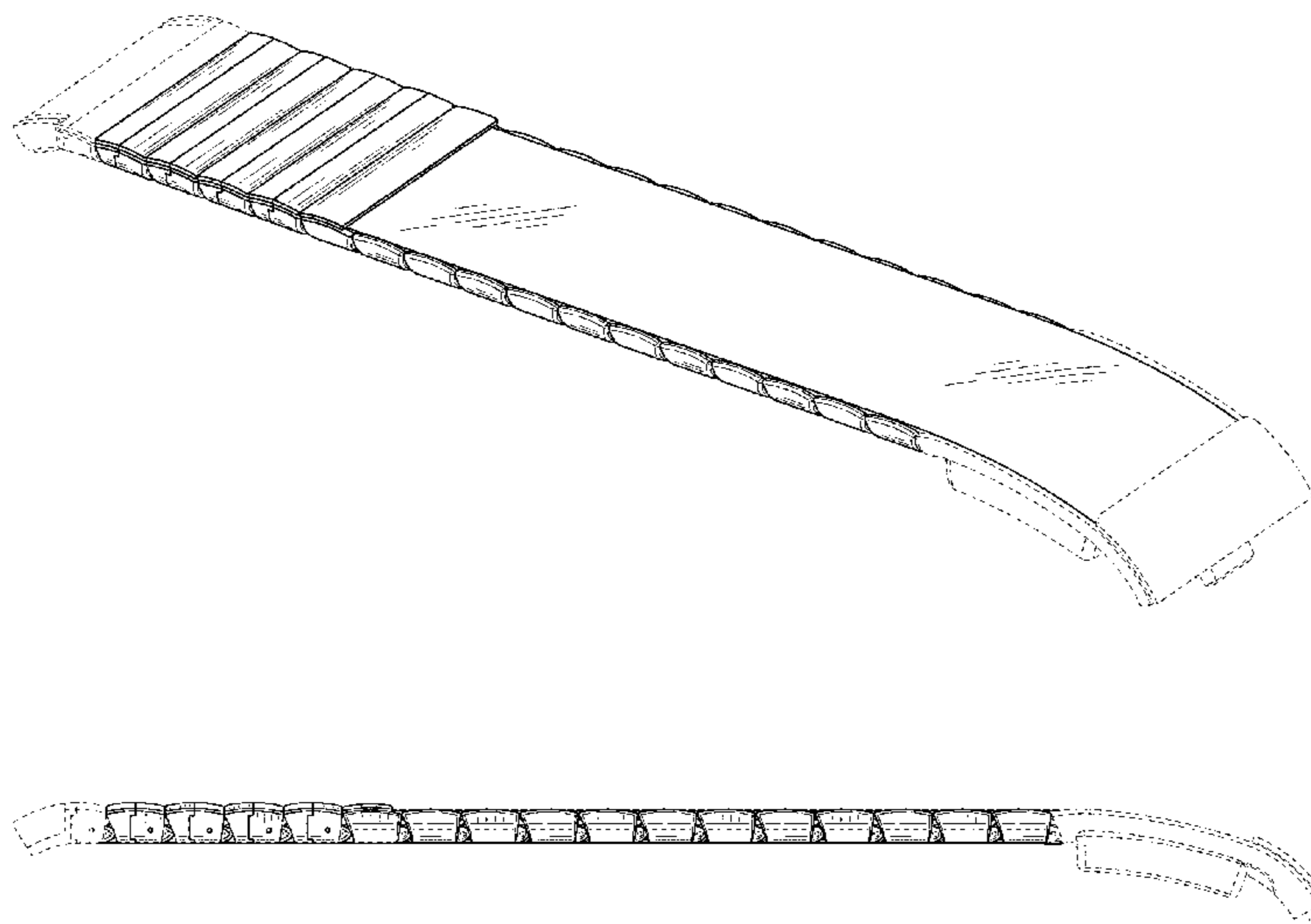
FIG. 8 is a left bottom perspective view thereof;

FIG. 9 is a right rear perspective view thereof; and,

FIG. 10 is a left bottom perspective view thereof.

The broken lines shown in the figures depict portions of the wearable device having flexible display panel that form no part of the claimed design.

1 Claim, 6 Drawing Sheets



(58) **Field of Classification Search**

USPC D10/30-39, 70, 98; 379/433.1;
361/679.03
CPC G06F 1/163; G06F 1/1628; G06F 1/1626;
G06F 1/1635; G06F 1/08; G06F 1/10;
G06F 1/04; G06F 1/14; G06F 1/3203;
A41D 1/002; H04M 1/02; H04M 1/03;
H04M 1/04; H04M 1/05; H04M 1/667;
H04M 1/6058; Y02B 60/12; H04B 1/385;
H04B 1/3888; H04B 1/3833; G06Q
20/10; G06Q 20/108; G06Q 20/12; G06Q
20/145

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D595,254 S *	6/2009	Roberts	.....	D14/138 AA
8,482,909 B2	7/2013	Douglas		
D715,758 S *	10/2014	Yun	.....	D14/138 R
D716,247 S *	10/2014	Yun	.....	D10/32
D725,071 S *	3/2015	Lee	.....	D14/138 R
D733,130 S *	6/2015	Kim	.....	D14/344
D736,664 S *	8/2015	Paradise	.....	D11/3
9,274,555 B2 *	3/2016	Otsuka	.....	A61B 5/02422
D778,768 S *	2/2017	Curry	.....	D11/93
D786,862 S *	5/2017	Park	.....	D14/344
D788,734 S *	6/2017	Park	.....	D14/138 AB
9,668,550 B2 *	6/2017	Seo	.....	A44C 5/0076
2006/0020469 A1	1/2006	Rast		
2008/0291225 A1	11/2008	Arneson		
2009/0251888 A1	10/2009	Douglas		
2012/0314546 A1	12/2012	Brewer et al.		
2013/0044215 A1	2/2013	Rothkopf et al.		
2013/0172068 A1	7/2013	Zhou et al.		
2013/0222270 A1	8/2013	Winkler et al.		
2013/0335929 A1	12/2013	Cavallaro		
2015/0089974 A1 *	4/2015	Seo	.....	A44C 5/0076 63/1.13

FOREIGN PATENT DOCUMENTS

KR	3020130009574	6/2013
KR	20150035232 A	4/2015

OTHER PUBLICATIONS

Smartphone del futuro, parola d'ordine display flessibili, posted Feb. 4, 2103, [retrieved Jun. 24, 2017]. Retrieved from Internet, <URL: <http://www.techrumors.it/smartphone-del-futuro-parola-dordine-display-flessibili/>>.*

Meet the Flexible Smartphones & Tablets of The Future, posted Dec. 17, 2014, [retrieved Jun. 24, 2017]. Retrieved from Internet, <URL: <http://www.knowyourmobile.com/mobile-phones/samsung-galaxy-note-edge/20977/meet-flexible-smartphones-tablets-future>>.*

"3M Flexible Transparent Touchscreen Concepts" video located on the Internet at <http://www.youtube.com/watch?v=kCZz4jFok_o> (uploaded Jan. 6, 2011).

"E-Clock", Tokyoflash JAPN Product Design Studio, downloaded from the Internet at <<http://blog.tokyoflash.com/2010/03/e-clock/>> (Mar. 10, 2010).

"Flexible Smart Phone Fluid Presented by Philips", YouTube, downloaded from the Internet at <http://www.youtube.com/watch?v=Wq9montNgbM&feature=player_detailpage> (Apr. 2, 2012).

"Infinite Possibilities: the next generation in fashion and technology", Looksee Labs, Oakland, California, 7 page brochure (published before Jun. 24, 2015).

"Moment Smartwatch: World's First Wrap Around Smart Watch," Momentum Labs LLC, 28 pp. (Jun. 24, 2014).

"Rohm shows a flexible-OLED wristband", OLED-Info.com, downloaded from the Internet at <<http://www.oled-info.com/rohm-shows-flexible-oled-wristband/>> (Oct. 5, 2009).

"Samsung Smart Watch Trademarks Filed, Wearable Internet Nearing Debut", Fox News Latino, downloaded from the Internet at <<http://latino.foxnews.com/latino/money/2013/08/07/samsung-smart-watch-trademarks-filed-wearable-internet-nearing-debut/>> (Aug. 7, 2013).

"Wearable Concept Phone is Not Nokia 888", Concept Phones, downloaded from the Internet at <<http://www.concept-phones.com/tag/hyun-sung-lee/>> (Jul. 18, 2008).

Color photograph of three bracelet designs, downloaded from the Internet at: <<http://www.lookseelabs.com/news/>>, published before Jun. 24, 2015.

Fingas, "Tentative Samsung smartwatch design unearthed in Korean patents", engadget, downloaded from the Internet at <<http://www.engadget.com/2013/08/03/tentative-samsung-smartwatch-designs-unearthed-in-korean-patents/>> (Aug. 3, 2013).

Johan, "ASUS Waveface Ultra", techfresh.net, downloaded from the Internet at <<http://www.techfresh.net/asus-waveface-ultra/>> (Jan. 19, 2010).

Kahn, "Is Apple's iWatch a slap wrist band with a flexible display?", 9to5Mac Apple Intelligence, downloaded from the Internet at <<http://9to5mac.com/2013/02/21/is-apples-iwatch-a-slap-wrist-band-with-a-flexible-display/>> (Feb. 21, 2013).

Kaki, "10 Beautiful Nokia Concept Phones for Future Generations", DreamsRain website, downloaded from the Internet at <<http://www.dreamsrain.com/2011/09/18/10-beautiful-nokia-concept-phones-for-future-generations/>> (Sep. 18, 2011).

Kelvin, "Apple iBand Envisioned by T3: Health Features, Fitness and Watch Functions (Video)", Concept Phones, downloaded from the Internet at <<http://www.concept-phones.com/apple/apple-iband-envisioned-t3-health-features-fitness-watch-functions-video/>> (Feb. 18, 2014).

Kelvin, "iWatch Render Goes the Way of the Nike FuelBand", Concept Phones, downloaded from the Internet at <<http://www.concept-phones.com/apple/iwatch-render-nike-fuelband/>> (Jan. 21, 2014).

Kelvin, "MWC 2014: Kyocera Showcases Flexible Phone That Turns Into Bracelet", Concept Phones, downloaded from the Internet at <<http://www.concept-phones.com/kyocera/mwc-2014-kyocera-showcases-flexible-phone-turns-bracelet/>> (Feb. 27, 2014).

Kelvin, "New Apple iWatch Render Shows us an Ultrathin Bracelet", Concept Phones, downloaded from the Internet at <<http://www.concept-phones.com/apple/apple-iwatch-render-shows-ultrathin-bracelet/>> (Oct. 16, 2013).

Kelvin, "Nokia Lumia 101 Smartwatch is a Nice Little, Elegant Bracelet", Concept Phones, downloaded from the Internet at <<http://www.concept-phones.com/nokia/nokia-lumia-101-smartwatch-nice-elegant-bracelet/>> (Dec. 3, 2013).

One color and two black-and-white photographs of a bracelet design, Looksee Labs, downloaded from the Internet at: <<http://www.lookseelabs.com/gallery/>> (published before Jun. 24, 2015).

Rastogi, "Nokia Lumia 1080: The Concept Phone", 91 mobiles, downloaded from the Internet at <<http://www.91mobiles.com/blog/nokia-lumia-1080-the-concept-phone.html>> (Jun. 27, 2013).

Ridden, "Emopulse Smile SmartWatch goes up for pre-order", Gizmag, downloaded from the Internet at <<http://www.gizmag.com/emopulse-smile-smartwatch/27984/>> (Jun. 19, 2013).

Seth, "Love This iWatch!", Yanko Design Form Beyond Function, downloaded from the Internet at <<http://www.yankodesign.com/2013/07/26/love-this-iwatch/>> (Jul. 26, 2013).

Smith, "Samsung smartwatch concept shown in patent hints at flexible display use", Android Authority (Aug. 3, 2013).

Thyristan, "iWatch Design Created by James Ivaldi is All Metal", Concept Phones, downloaded from the Internet at <<http://www.concept-phones.com/apple/iwatch-design-created-james-ivaldi-metal/>> (Jul. 29, 2013).

Thyristan, "LG Auki Bracelet Phone Is Colorful and Elegant", Concept Phones, downloaded from the Internet at <<http://www.concept-phones.com/lg/ig-auki-bracelet-phone-colorful-elegant/>> (Aug. 26, 2011).

(56)

References Cited

OTHER PUBLICATIONS

Thyristan, "LG Helix Cellphone is Also a Slap Bracelet", Concept Phones, downloaded from the Internet at <<http://www.concept-phones.com/lg/lg-helix-cellphone-slap-bracelet/>> (Oct. 9, 2009).

Thyristan, "Speak to Me Concept Watch Phone is Hot, a Must-Have Fashion Accessory", Concept Phones, downloaded from the Internet at <<http://www.concept-phones.com/fashion-phones/speak-concept-watch-phone-hot-musthave-fashion-accessory/>> (Jan. 27, 2009).

Thyristan, "The Hook Bracelet Phone Concept Runs Windows Phone in a New Format", Concept Phones, downloaded from the Internet at <<http://www.concept-phones.com/cool-concepts/hook-bracelet-phone-concept-runs-windows-phone-format/>> (Jun. 21, 2013).

* cited by examiner

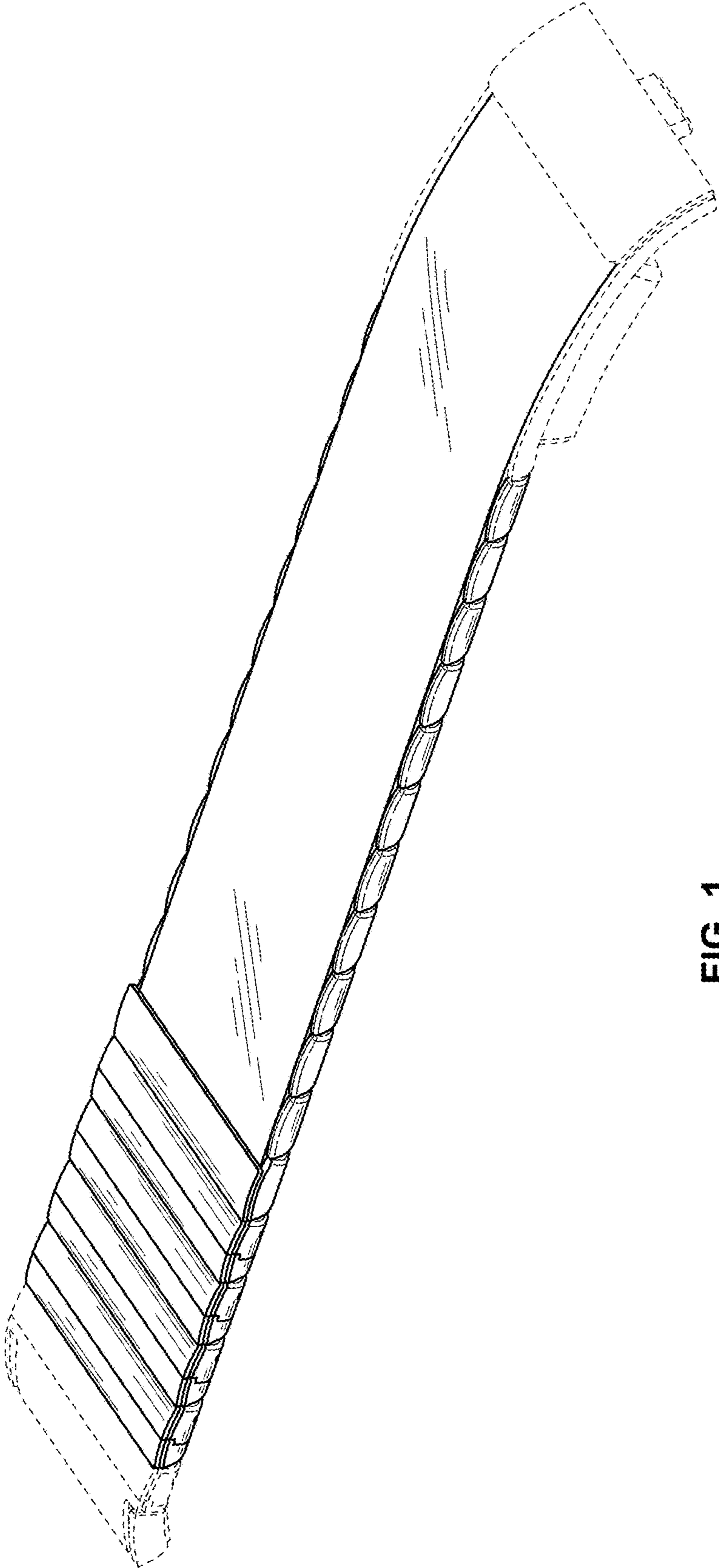


FIG. 1

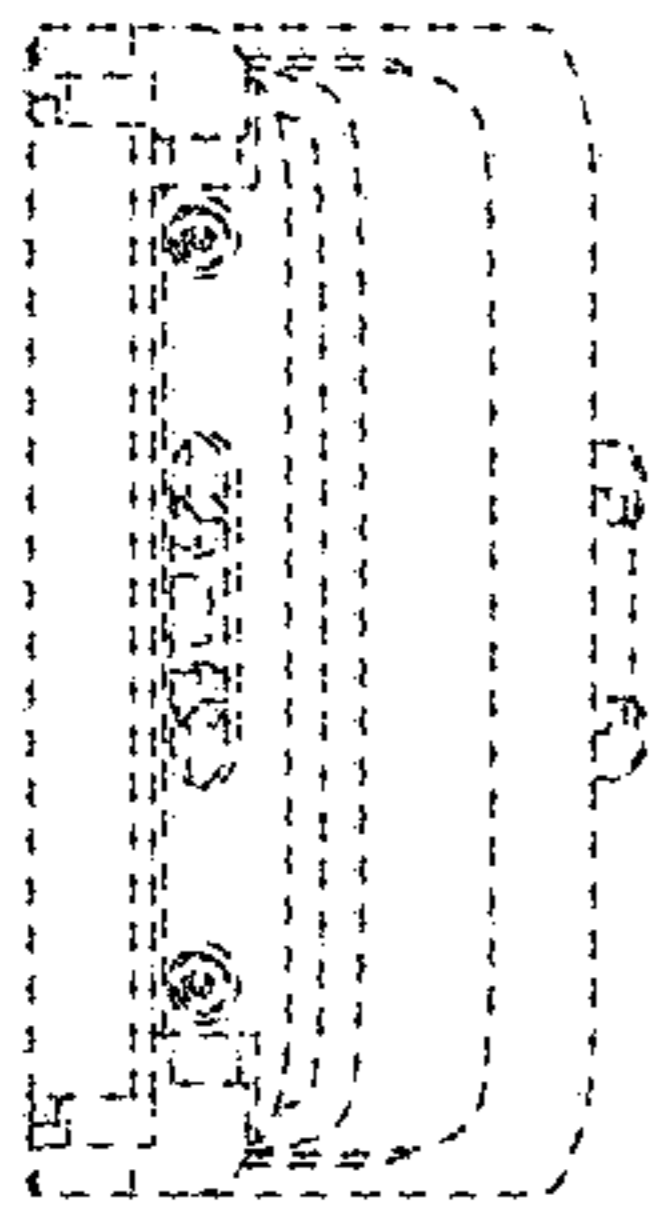


FIG. 2

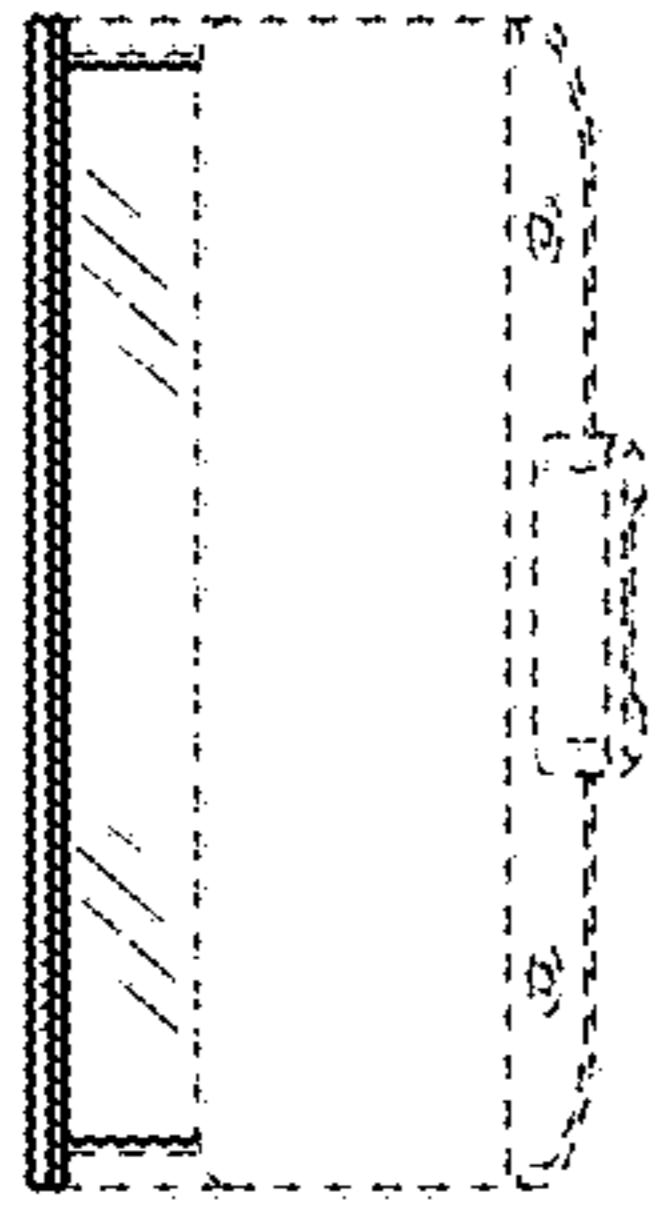


FIG. 3

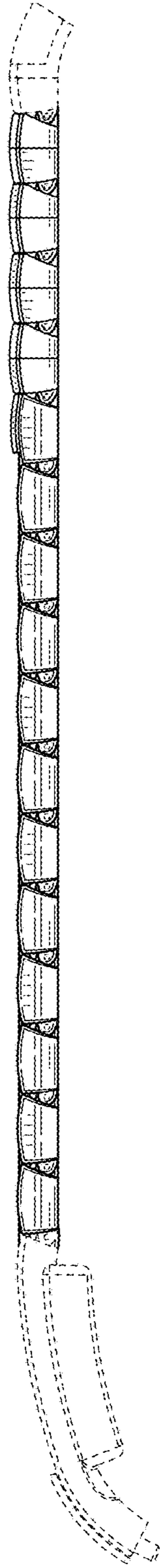


FIG. 4

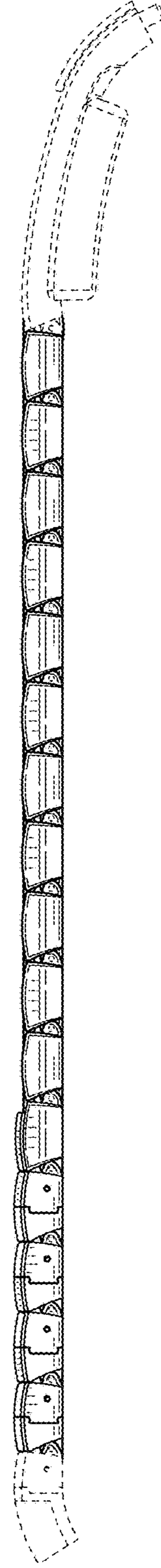


FIG. 5

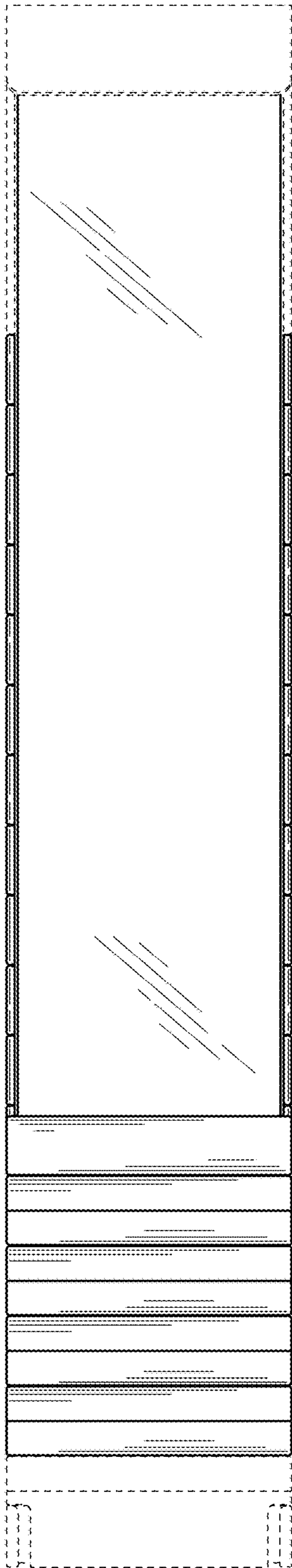


FIG. 6

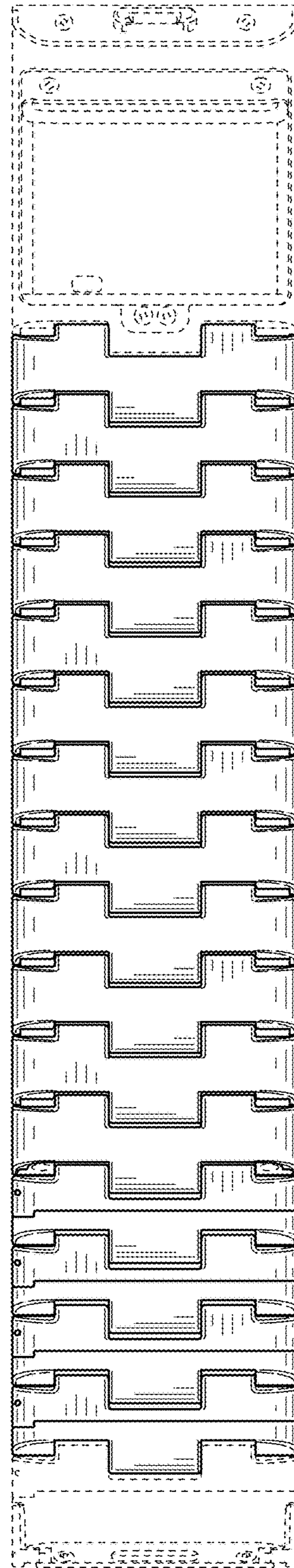


FIG. 7

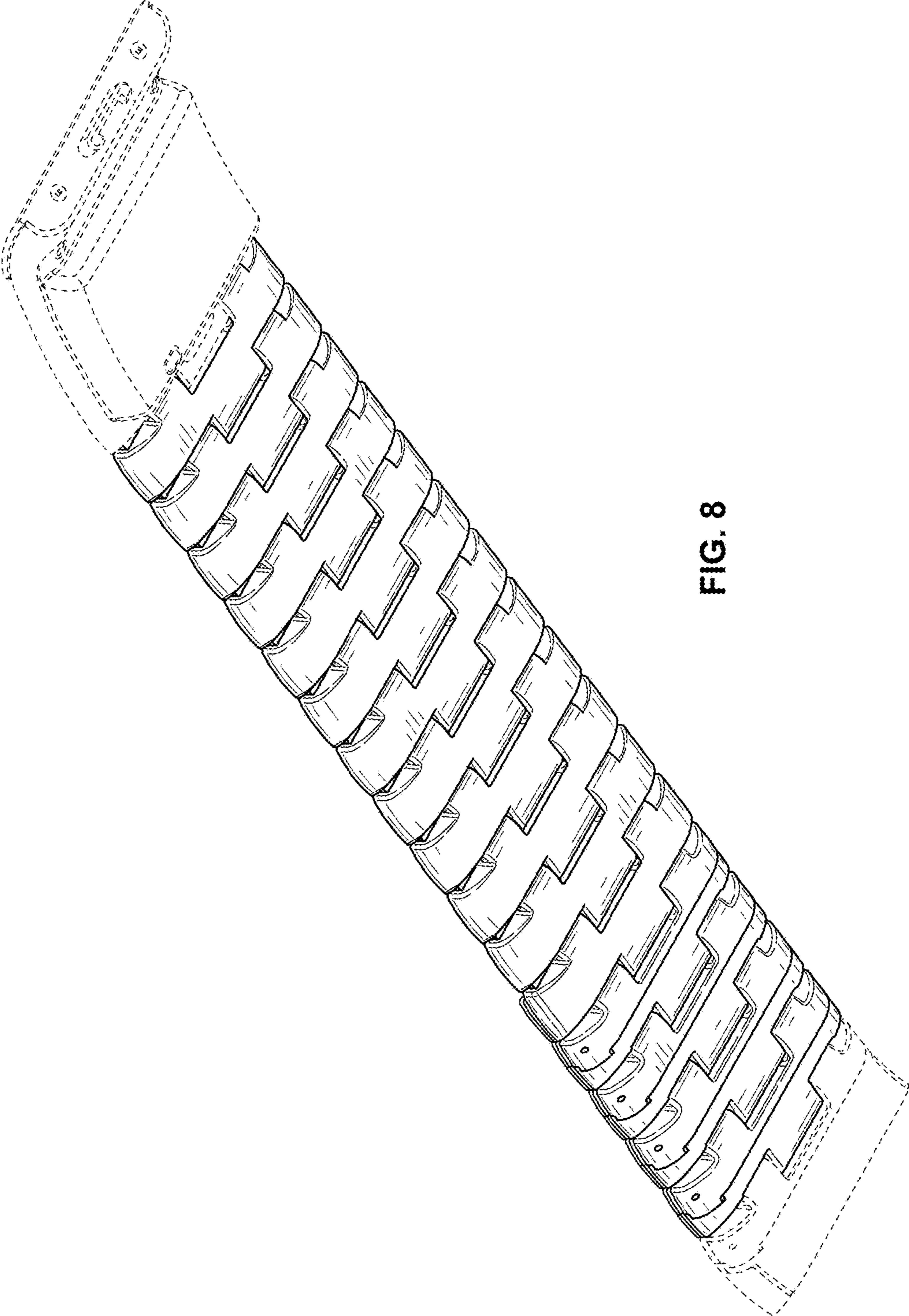


FIG. 8

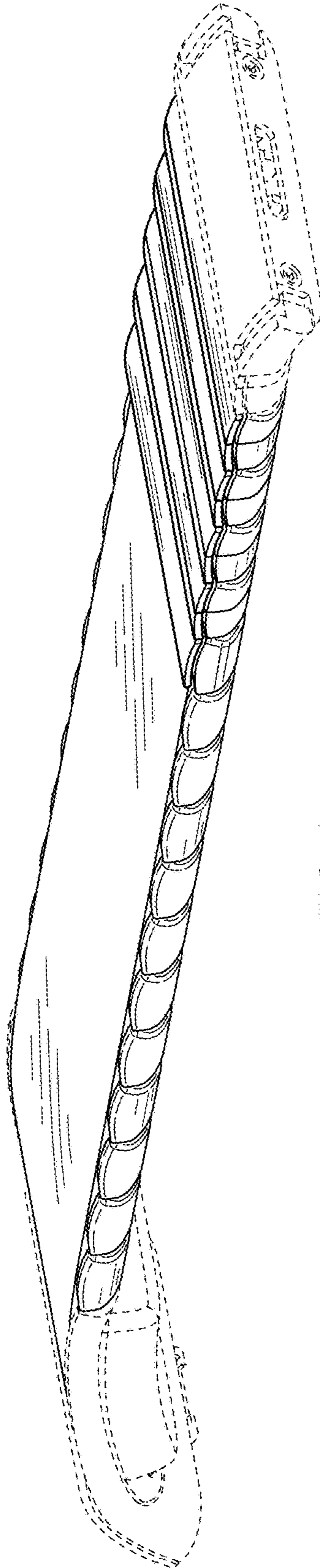


FIG. 9

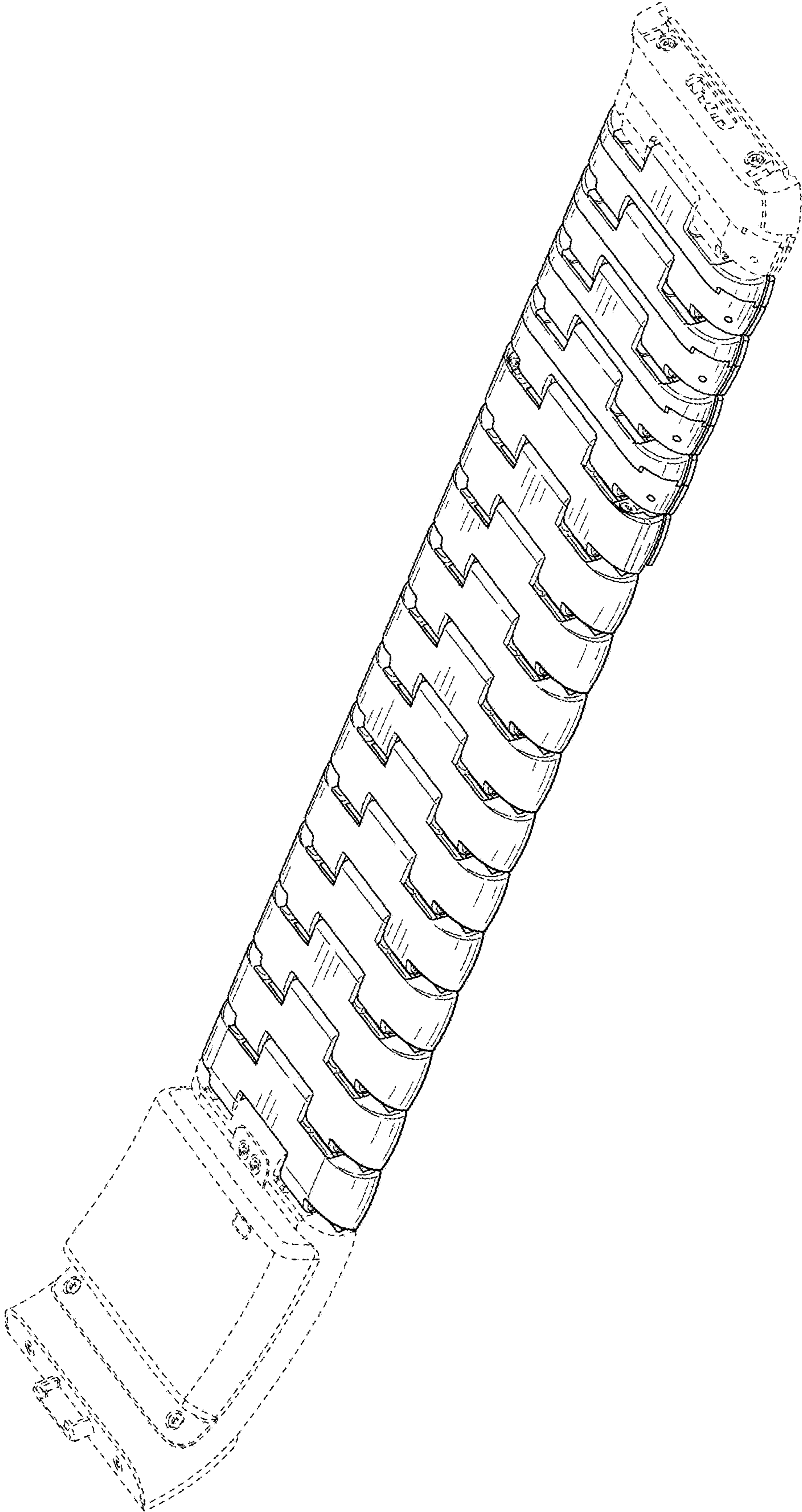


FIG. 10