

(12) United States Design Patent (10) Patent No.: US D778,768 S ****** Feb. 14, 2017 (45) **Date of Patent:** Curry et al.

- **SEGMENT OF WEARABLE DEVICE** (54)HAVING FLEXIBLE DISPLAY PANEL
- Applicant: **POLYERA CORPORATION**, Skokie, (71)IL (US)
- Inventors: Samuel Mason Curry, Oakland, CA (72)(US); Hjalmar Edzer Ayco Huitema, Belmont, CA (US)
- (73) Assignee: Flexterra, Inc., Skokie, IL (US)

OTHER PUBLICATIONS

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

(Continued)

Primary Examiner — Zenia Bennett (74) Attorney, Agent, or Firm — Karen K. Chan (57)

- **15 Years** (**)Term:
- Appl. No.: 29/531,297 (21)
- Jun. 24, 2015 Filed: (22)
- LOC (10) Cl. 11-01 (51)
- U.S. Cl. (52)USPC D11/93
- Field of Classification Search (58)USPC D11/1–25, 32, 93, 94; 59/78, 79.2; 63/1.11, 63/3, 3.1, 3.2, 5.1, 5.2, 7-11; 224/175;D10/30-32

(Continued)

References Cited (56)

U.S. PATENT DOCUMENTS

2,792,684 A * 5/1957 Dinstman G04B 39/004 368/294 2,954,622 A * 10/1960 Moore A44C 5/0015 CLAIM

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

DESCRIPTION

FIG. 1 is a left, front perspective view of a segment of wearable device having flexible display panel of the present invention, arranged in a curved orientation; FIG. 2 is a front plan view of the invention illustrated in FIG. 1, arranged in the curved orientation, a rear plan view being a mirror image thereof; FIG. 3 is a top view of the segment of wearable device having flexible display panel illustrated in FIG. 1, arranged in a flat orientation; FIG. 4 is a bottom view of the invention illustrated in FIG. 3; FIG. 5 is a left side view of the invention illustrated in FIG. 3; FIG. 6 is a right side view of the invention illustrated in FIG. 3; FIG. 7 is a front plan view of the invention illustrated in FIG.

3, a rear plan view being a minor image thereof; and, FIG. 8 is a top perspective view of the invention illustrated in FIG. **3**.

40/662

(Continued)

FOREIGN PATENT DOCUMENTS

1599110 A1 EP 11/2005 KR 3020130009576 2/2013 (Continued)

The portions of the drawings illustrated in broken lines are for illustrative purposes only and form no part of the claimed design.

1 Claim, 3 Drawing Sheets



US D778,768 S

Page 2

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,672,157 A	4 *	6/1972	Manceri G04B 45/0069
			368/282
4,034,552 A	4 *	7/1977	Davidson G04B 37/1486
			368/280
4.390.288 A	4 *	6/1983	Arnoux G04B 37/0058
- , ,	_		368/276
4,928,411 A	4 *	5/1990	Danis A47G 23/06
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	0/2000	40/324
D334,351 S	* *	3/1993	Bichi D11/13
D334,723 S			Bichi
D334,724 S			Bichi
D461,113 S			Aubert Capella
,			Ozolins
0,212,070 1	52	112000	220/2.1 R
7,209,114 H	32	4/2007	Radley-Smith
D590,018 S			Nash D19/113
7,793,361 H			Ishihara
7,725,501 1	12	<i>)</i> /2010	2/170
8,482,909 I	32	7/2013	Douglas
8,764,283 H			Altenhoven G04B 39/02
0,701,205 1	12	772017	368/294
2006/0020469 A	4 1	1/2006	
2008/0291225 A			Arneson
2009/0251888 A			Douglas
2012/0314546 A			Brewer et al.
2012/0011010 /			Rothkopf et al.
2013/0172068 A			Zhou et al.
2013/0222270 A			Winkler et al.
2013/0335929 A			Cavallaro
2015/0089974 A			Seo et al.

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-phonesfor-future-genrations/> (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 <<u>http://www.concept-phones.com/kyocera/mwc-2014-</u> 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). Thrystan, "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-ivaldimetal > (Jul. 29, 2013).Thrystan, "LG Auki Bracelet Phone Is Colorful and Elegant", Concept Phones, downloaded from the Internet at http://www. concept-phones.com/lg/lg-auki-bracelet-phone-colorful-elegant/> (Aug. 26, 2011). Thrystan, "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). Thrystan, "Speak to Me Concept Watch Phone is Hot, a Must-Have Fashion Accessory", Concept Phones, downloaded from the Internet <http://www.concept-phones.com/fashion-phones/speak-conat cept-watch-phone-hot-musthave-fashion-accessory/> (Jan. 27, 2009).

FOREIGN PATENT DOCUMENTS

KR	3020130009574	6/2013
KR	20150035232 A	4/2015

OTHER PUBLICATIONS

"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/samsungsmart-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://

Thrystan, "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

U.S. Patent Feb. 14, 2017 Sheet 1 of 3 US D778,768 S



FIG. 1



FIG. 2

U.S. Patent Feb. 14, 2017 Sheet 2 of 3 US D778,768 S





FIG. 3



-												} <u>*</u>
					1							·····
ĩ	[} 1				•				}	E S
1			} 1	[~~~~~	 	• • • • • • • • • •				• • • • • • • • • •	4	
1							1 1				Ì	
•							1 1				<u>}</u>	
							1 1				<u>}</u>	
I			} 1				1 1				Ì	- 1
		******	} 1	[ł.	1
	<u> </u>		·····		}							
												}
)												je je
												j e
-												}a.
:												}⊾
,												
i		L)	L				t		······································

FIG. 4

- 	*********************	
		- Andrewski and a standard and a st
		8
		E E

FIG. 5

	· • • • • • • • • • • • • • • • • • • •		
	<u></u>	1	
		· · · · · · · · · · · · · · · · · · ·	
Jun			
F			
F			

FIG. 6

U.S. Patent US D778,768 S Feb. 14, 2017 Sheet 3 of 3



FIG. 7



FIG. 8