



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

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(54) **ENERGY MODULE WITH ALERT SCREEN WITH GRAPHICAL USER INTERFACE**

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(52) **U.S. Cl.**

USPC **D13/162**; D14/486

(58) **Field of Classification Search**

USPC D14/485-495; D20/11; D21/324, 325; D13/162

CPC .. G06F 3/0481; G06F 3/04817; G06F 3/0482; G06F 3/0483; G06F 3/04842; G06F 3/04845; G06F 3/0485; G06F 3/04855; G06F 3/0486; G06F 3/0488; G06F 3/04886; G06F 9/451; G06F 40/103; G06F 40/106; G06F 40/189; G06F 40/191; G16H 15/00; G16H 30/40; A61B 5/0205; A61B 34/25; A61B 90/90; G05B 15/02; E05B 73/0082; A61L 2/04; H04N 1/2376

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,171,700 A	10/1979	Farin
4,640,279 A	2/1987	Beard
4,849,752 A	7/1989	Bryant
D303,787 S	10/1989	Messenger et al.
5,041,110 A	8/1991	Fleenor
D327,061 S	6/1992	Soren et al.
5,189,277 A	2/1993	Boisvert et al.
5,204,669 A	4/1993	Dorfe et al.
5,318,563 A	6/1994	Malis et al.

(Continued)

FOREIGN PATENT DOCUMENTS

EP	0408160 A1	1/1991
EP	0473987 A1	3/1992

(Continued)

OTHER PUBLICATIONS

“Bowa ARC 400” Oct. 30, 2018, posted at bowa-medical.com, [site visited Aug. 6, 2021]. https://www.bowa-medical.com/tradepro/shopru/artikel/allgemein/BOWA_BRO_11181_ARC400_V2.1_2018_10_30_EN.pdf (Year: 2018).*

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(57) **CLAIM**

The ornamental design for an energy module with alert screen with graphical user interface, as shown and described.

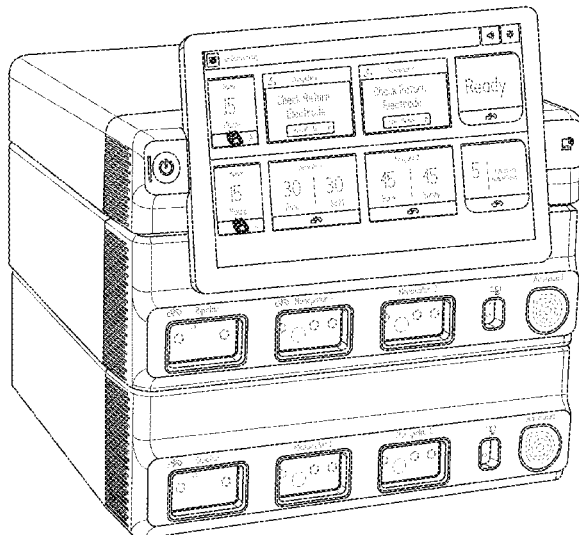
DESCRIPTION

FIG. 1 is a front view of an energy module and display screen; and,

FIG. 2 is a perspective view of the energy module and display screen of FIG. 1.

In the figures, the broken lines illustrate environment and form no part of the claimed design.

1 Claim, 2 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,325,270	A	6/1994	Wenger et al.	8,923,012	B2	12/2014	Kaufman et al.
5,425,375	A	6/1995	Chin et al.	8,968,296	B2	3/2015	McPherson
D379,346	S	5/1997	Mieki	8,986,288	B2	3/2015	Konishi
5,690,504	A	11/1997	Scanlan et al.	9,017,326	B2	4/2015	DiNardo et al.
5,693,042	A	12/1997	Boiarski et al.	D729,267	S	5/2015	Yoo et al.
5,724,468	A	3/1998	Leone et al.	9,055,870	B2	6/2015	Meador et al.
5,788,688	A	8/1998	Bauer et al.	9,065,394	B2	6/2015	Lim et al.
6,049,467	A	4/2000	Tamarkin et al.	9,129,054	B2	9/2015	Nawana et al.
6,055,458	A	4/2000	Cochran et al.	9,160,853	B1	10/2015	Daddi et al.
D431,811	S	10/2000	Nishio et al.	9,168,054	B2	10/2015	Turner et al.
6,179,136	B1	1/2001	Kluge et al.	9,168,091	B2	10/2015	Janssen et al.
6,269,411	B1	7/2001	Reasoner	9,198,711	B2	12/2015	Joseph
6,273,750	B1	8/2001	Malkowski, Jr.	9,226,766	B2	1/2016	Aldridge et al.
6,288,606	B1	9/2001	Ekman et al.	9,226,791	B2	1/2016	McCarthy et al.
6,416,471	B1	7/2002	Kumar et al.	9,237,921	B2	1/2016	Messerly et al.
6,546,270	B1	4/2003	Goldin et al.	9,265,429	B2	2/2016	St. Pierre et al.
6,584,358	B2	6/2003	Carter et al.	9,277,961	B2	3/2016	Panescu et al.
6,611,793	B1	8/2003	Burnside et al.	9,277,969	B2	3/2016	Brannan et al.
6,731,514	B2	5/2004	Evans	9,281,615	B1	3/2016	Plaza et al.
6,760,218	B2	7/2004	Fan	9,320,646	B2	4/2016	Todd et al.
6,839,238	B2	1/2005	Derr et al.	9,345,481	B2	5/2016	Hall et al.
6,843,657	B2	1/2005	Driscoll et al.	9,345,900	B2	5/2016	Wu et al.
6,913,471	B2	7/2005	Smith	9,351,653	B1	5/2016	Harrison
7,009,511	B2	3/2006	Mazar et al.	9,427,255	B2	8/2016	Griffith et al.
7,044,949	B2	5/2006	Orszulak et al.	9,430,438	B2	8/2016	Biskup
7,074,205	B1	7/2006	Duffy et al.	9,463,646	B2	10/2016	Payne et al.
7,134,994	B2	11/2006	Alpert et al.	9,474,565	B2	10/2016	Shikhman et al.
7,171,784	B2	2/2007	Eenigenburg	D772,252	S	11/2016	Myers et al.
7,217,269	B2	5/2007	El-Galley et al.	9,486,271	B2	11/2016	Dunning
7,252,664	B2	8/2007	Nasab et al.	9,491,895	B2	11/2016	Steeves et al.
7,331,699	B2	2/2008	Gawalkiewicz et al.	9,532,827	B2	1/2017	Morgan et al.
7,344,532	B2	3/2008	Goble et al.	9,589,720	B2	3/2017	Akahane
7,353,068	B2	4/2008	Tanaka et al.	9,600,031	B2	3/2017	Kaneko et al.
D575,792	S *	8/2008	Benson D14/486	9,603,277	B2	3/2017	Morgan et al.
7,408,439	B2	8/2008	Wang et al.	D783,675	S	4/2017	Yagisawa et al.
D579,876	S	11/2008	Novotney et al.	D784,270	S	4/2017	Bhattacharya
D583,328	S	12/2008	Chiang	9,666,974	B2	5/2017	Bopp
7,496,418	B2	2/2009	Kim et al.	9,713,503	B2	7/2017	Goldschmidt
D589,447	S	3/2009	Sasada et al.	9,715,271	B2	7/2017	Kaestner
7,500,747	B2	3/2009	Howell et al.	9,750,563	B2	9/2017	Shikhman et al.
7,518,502	B2	4/2009	Austin et al.	9,770,103	B2	9/2017	Cochran et al.
7,563,259	B2	7/2009	Takahashi	9,773,093	B2	9/2017	Bernini et al.
7,601,149	B2	10/2009	DiCarlo et al.	9,782,214	B2	10/2017	Houser et al.
7,637,907	B2	12/2009	Blaha	9,788,907	B1	10/2017	Alvi et al.
7,656,671	B2	2/2010	Liu et al.	9,804,977	B2	10/2017	Ghosh et al.
7,757,028	B2	7/2010	Druke et al.	D806,721	S *	1/2018	Fischer D14/485
D631,252	S	1/2011	Leslie	9,867,670	B2	1/2018	Brannan et al.
7,932,826	B2	4/2011	Fritchie et al.	9,892,564	B1	2/2018	Cvetko et al.
7,945,065	B2	5/2011	Menzi et al.	9,907,196	B2	2/2018	Susini et al.
7,945,342	B2	5/2011	Tsai et al.	9,971,395	B2	4/2018	Chenault et al.
7,982,776	B2	7/2011	Dunki-Jacobs et al.	9,974,595	B2	5/2018	Anderson et al.
7,995,045	B2	8/2011	Dunki-Jacobs	9,987,068	B2	6/2018	Anderson et al.
8,019,094	B2	9/2011	Hsieh et al.	9,987,072	B2	6/2018	McPherson
D655,678	S	3/2012	Kobayashi et al.	10,028,402	B1	7/2018	Walker
D657,368	S	4/2012	Magee et al.	10,039,589	B2	8/2018	Virshek et al.
8,218,279	B2	7/2012	Liao et al.	D832,211	S	10/2018	Ladd et al.
8,239,066	B2	8/2012	Jennings et al.	10,098,527	B2	10/2018	Weisenburgh, II et al.
D667,838	S	9/2012	Magee et al.	10,105,470	B2	10/2018	Reasoner et al.
D675,164	S	1/2013	Kobayashi et al.	10,109,835	B2	10/2018	Yang
D676,392	S	2/2013	Gassauer	D834,541	S	11/2018	You et al.
D678,196	S	3/2013	Miyauchi et al.	10,117,702	B2	11/2018	Danziger et al.
D678,304	S	3/2013	Yakoub et al.	10,128,612	B1	11/2018	Casto
8,423,182	B2	4/2013	Robinson et al.	10,136,954	B2	11/2018	Johnson et al.
D687,146	S	7/2013	Juzkiw et al.	10,137,245	B2	11/2018	Melker et al.
8,504,136	B1	8/2013	Sun et al.	10,147,148	B2	12/2018	Wu et al.
8,540,709	B2	9/2013	Allen	10,166,061	B2	1/2019	Berry et al.
8,567,393	B2	10/2013	Hickle et al.	10,170,205	B2	1/2019	Curd et al.
D704,839	S	5/2014	Juzkiw et al.	10,201,365	B2	2/2019	Boudreaux et al.
8,795,001	B1	8/2014	Lam et al.	10,339,496	B2	7/2019	Matson et al.
8,819,581	B2	8/2014	Nakamura et al.	10,357,184	B2	7/2019	Crawford et al.
8,840,609	B2	9/2014	Stuebe	10,386,990	B2	8/2019	Shikhman et al.
D716,333	S	10/2014	Chotin et al.	10,441,345	B2	10/2019	Aldridge et al.
8,911,437	B2	12/2014	Horlle et al.	10,449,004	B2	10/2019	Ferro et al.
8,917,513	B1	12/2014	Hazzard	10,475,244	B2	11/2019	Cvetko et al.
8,920,186	B2	12/2014	Shishikura	10,493,287	B2	12/2019	Yoder et al.
				10,499,847	B2	12/2019	Latimer et al.
				10,499,996	B2	12/2019	de Almeida Barreto
				10,523,122	B2	12/2019	Han et al.
				10,531,579	B2	1/2020	Hsiao et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

D876,466	S	2/2020	Kobayashi et al.	2007/0076363	A1	4/2007	Liang et al.	
10,561,753	B2	2/2020	Thompson et al.	2007/0282321	A1	12/2007	Shah et al.	
10,602,007	B2	3/2020	Takano	2008/0072896	A1	3/2008	Setzer et al.	
10,624,667	B2	4/2020	Faller et al.	2008/0129465	A1	6/2008	Rao	
10,624,691	B2	4/2020	Wiener et al.	2008/0249377	A1	10/2008	Molducci et al.	
10,675,100	B2	6/2020	Frushour	2008/0316304	A1	12/2008	Claus et al.	
10,687,884	B2	6/2020	Wiener et al.	2009/0036884	A1	2/2009	Gregg et al.	
10,729,502	B1	8/2020	Wolf et al.	2009/0131929	A1	5/2009	Shimizu	
10,743,872	B2	8/2020	Leimbach et al.	2009/0216091	A1	8/2009	Arndt	
10,758,309	B1	9/2020	Chow et al.	2009/0234352	A1	9/2009	Behnke et al.	
10,758,310	B2	9/2020	Shelton, IV et al.	2010/0036405	A1	2/2010	Giordano et al.	
10,772,673	B2	9/2020	Allen, IV et al.	2010/0069939	A1	3/2010	Konishi	
10,878,966	B2	12/2020	Wolf et al.	2010/0076453	A1	3/2010	Morris et al.	
10,881,399	B2	1/2021	Shelton, IV et al.	2010/0092006	A1	4/2010	Rosen	
10,898,256	B2	1/2021	Yates et al.	2010/0120266	A1	5/2010	Rimborg	
10,925,598	B2	2/2021	Scheib et al.	2010/0198200	A1	8/2010	Horvath	
10,932,705	B2	3/2021	Muhsin et al.	2010/0312239	A1	12/2010	Sclig	
10,932,772	B2	3/2021	Shelton, IV et al.	2011/0071420	A1*	3/2011	St. Pierre	G16H 15/00 600/300
10,950,982	B2	3/2021	Regnier et al.	2011/0092972	A1	4/2011	Allen	
10,987,176	B2	4/2021	Poltaretskyi et al.	2011/0093796	A1	4/2011	Plummer et al.	
10,989,724	B1	4/2021	Holmes et al.	2011/0106567	A1	5/2011	Asher	
11,000,270	B2	5/2021	Scheib et al.	2011/0125149	A1	5/2011	El-Galley et al.	
D924,139	S	7/2021	Jayne	2011/0130689	A1	6/2011	Cohen et al.	
11,056,244	B2	7/2021	Shelton, IV et al.	2011/0238063	A1	9/2011	Gregg	
11,065,079	B2	7/2021	Wolf et al.	2011/0245630	A1	10/2011	St. Pierre et al.	
11,071,595	B2	7/2021	Johnson et al.	2011/0273465	A1	11/2011	Konishi et al.	
D928,725	S	8/2021	Oberkircher et al.	2011/0288451	A1	11/2011	Sanai et al.	
D928,726	S	8/2021	Asher et al.	2011/0306840	A1	12/2011	Allen et al.	
11,083,489	B2	8/2021	Fujii et al.	2012/0029304	A1	2/2012	Medina et al.	
11,116,587	B2	9/2021	Wolf et al.	2012/0116380	A1	5/2012	Madan et al.	
D939,545	S	12/2021	Oberkircher et al.	2012/0132661	A1	5/2012	Gu et al.	
11,218,822	B2	1/2022	Morgan et al.	2012/0319890	A1	12/2012	McCormack et al.	
11,259,793	B2	3/2022	Scheib et al.	2013/0031201	A1	1/2013	Kagan et al.	
11,259,875	B2	3/2022	Boutin et al.	2013/0088451	A1*	4/2013	Payne	G06F 3/04845 345/173
11,272,839	B2	3/2022	Al-Ali et al.	2013/0176220	A1	7/2013	Merschon et al.	
11,284,963	B2	3/2022	Shelton, IV et al.	2013/0197503	A1	8/2013	Orszulak	
11,296,540	B2	4/2022	Kirleis et al.	2013/0267793	A1*	10/2013	Meador	A61B 5/0205 600/300
11,304,763	B2	4/2022	Shelton, IV et al.	2013/0267975	A1	10/2013	Timm et al.	
11,314,846	B1	4/2022	Colin et al.	2013/0268283	A1	10/2013	Vann et al.	
11,369,366	B2	6/2022	Scheib et al.	2014/0009894	A1	1/2014	Yu	
11,382,699	B2	7/2022	Wassall et al.	2014/0058714	A1	2/2014	Boyer	
11,382,700	B2	7/2022	Calloway et al.	2014/0087573	A1	3/2014	Kroeckel	
11,419,604	B2	8/2022	Scheib et al.	2014/0108048	A1	4/2014	Cohn	
11,424,027	B2	8/2022	Shelton, IV	2014/0155721	A1	6/2014	Hauck et al.	
11,432,877	B2	9/2022	Nash et al.	2014/0194683	A1	7/2014	Nakaguchi	
11,464,581	B2	10/2022	Calloway	2014/0226572	A1	8/2014	Thota et al.	
11,478,820	B2	10/2022	Bales, Jr. et al.	2014/0262598	A1	9/2014	Miki et al.	
11,504,192	B2	11/2022	Shelton, IV et al.	2014/0263552	A1	9/2014	Hall et al.	
11,510,750	B2	11/2022	Dulin et al.	2015/0190189	A1	7/2015	Yates et al.	
11,559,307	B2	1/2023	Shelton, IV et al.	2015/0257814	A1*	9/2015	Berry	G06F 3/04817 606/34
11,564,678	B2	1/2023	Scheib et al.	2015/0272575	A1	10/2015	Leimbach et al.	
11,571,205	B2	2/2023	Scheib et al.	2015/0289929	A1	10/2015	Toth et al.	
11,576,677	B2	2/2023	Shelton, IV et al.	2015/0300923	A1	10/2015	Halbert	
11,589,888	B2	2/2023	Shelton, IV et al.	2015/0334879	A1	11/2015	Fricke	
11,659,023	B2	5/2023	Shelton, IV et al.	2016/0045247	A1	2/2016	Heim et al.	
2001/0029315	A1	10/2001	Sakurai et al.	2016/0058286	A1	3/2016	Joshua et al.	
2003/0007321	A1	1/2003	Dayley	2016/0062954	A1	3/2016	Ruff et al.	
2003/0078631	A1	4/2003	Nelson et al.	2016/0074096	A1	3/2016	Lieu	
2003/0199794	A1	10/2003	Sakurai et al.	2016/0120591	A1	5/2016	Smith et al.	
2003/0199864	A1	10/2003	Eick	2016/0199240	A1*	7/2016	Newkirk	G05B 15/02 715/771
2004/0030328	A1	2/2004	Eggers et al.	2016/0225192	A1	8/2016	Jones et al.	
2004/0059323	A1	3/2004	Sturm et al.	2016/0231779	A1*	8/2016	Kaneko	E05B 73/0082
2004/0111045	A1	6/2004	Sullivan et al.	2016/0249945	A1	9/2016	Shelton, IV et al.	
2004/0164983	A1	8/2004	Khozai	2016/0287312	A1	10/2016	Tegg et al.	
2005/0010209	A1	1/2005	Lee et al.	2016/0287337	A1	10/2016	Aram et al.	
2005/0013459	A1	1/2005	Maekawa	2017/0000553	A1	1/2017	Wiener et al.	
2005/0113823	A1	5/2005	Reschke et al.	2017/0024978	A1	1/2017	Gulrez et al.	
2005/0165390	A1	7/2005	Mauti et al.	2017/0078455	A1	3/2017	Fisher et al.	
2005/0229110	A1	10/2005	Gegner et al.	2017/0080346	A1	3/2017	Abbas	
2005/0251233	A1	11/2005	Kanzius	2017/0090507	A1	3/2017	Wiener et al.	
2006/0085049	A1	4/2006	Cory et al.	2017/0151011	A1	6/2017	Brustad et al.	
2006/0136622	A1	6/2006	Rouvelin et al.	2017/0189096	A1	7/2017	Danziger et al.	
2006/0149418	A1	7/2006	Anvari	2017/0202595	A1	7/2017	Shelton, IV	
2006/0256516	A1	11/2006	Cho	2017/0209718	A1	7/2017	Tanis	
2007/0061393	A1	3/2007	Moore					

(56)	References Cited						
	U.S. PATENT DOCUMENTS						
2017/0251305	A1	8/2017	Fathollahi	2020/0237422	A1*	7/2020	Canady A61B 34/25
2017/0252091	A1	9/2017	Honda	2020/0265398	A1	8/2020	Lembo
2017/0252474	A1*	9/2017	Thompson A61L 2/04	2020/0268472	A1	8/2020	Wolf et al.
2017/0296213	A1	10/2017	Swensgard et al.	2020/0305924	A1	10/2020	Carroll
2017/0319259	A1	11/2017	Dunning	2020/0305945	A1	10/2020	Morgan et al.
2017/0360466	A1	12/2017	Brown et al.	2020/0314569	A1*	10/2020	Morgan A61B 90/90
2018/0014872	A1	1/2018	Dickerson	2020/0342228	A1	10/2020	Prevrhal et al.
2018/0042659	A1	2/2018	Rupp et al.	2021/0121246	A1	4/2021	Gudalo
2018/0049795	A1	2/2018	Swayze et al.	2021/0169578	A1	6/2021	Calloway et al.
2018/0065248	A1	3/2018	Barral et al.	2021/0196383	A1	7/2021	Shelton, IV et al.
2018/0078216	A1	3/2018	Baker et al.	2021/0203889	A1	7/2021	Fung et al.
2018/0082480	A1	3/2018	White et al.	2021/0212717	A1	7/2021	Yates et al.
2018/0099161	A1	4/2018	Honda	2021/0236755	A1	8/2021	King et al.
2018/0166809	A1	6/2018	Brogan et al.	2021/0264680	A1	8/2021	Cvetko et al.
2018/0206909	A1	7/2018	Brustad et al.	2021/0385889	A1	12/2021	Patel
2018/0221005	A1	8/2018	Hamel et al.	2022/0032442	A1	2/2022	Sheffield et al.
2018/0228528	A1	8/2018	Fraasch et al.	2022/0104896	A1	4/2022	Shelton, IV et al.
2018/0262916	A1	9/2018	Polley et al.	2022/0104897	A1	4/2022	Shelton, IV et al.
2018/0263557	A1	9/2018	Kahlman	2022/0104911	A1	4/2022	Shelton, IV et al.
2018/0296283	A1	10/2018	Crawford et al.	2022/0151704	A1	5/2022	Nikou
2018/0333207	A1	11/2018	Moctezuma De La Barrera	2022/0155910	A1	5/2022	Jeong
2019/0000478	A1	1/2019	Messerly et al.	2022/0261056	A1	8/2022	Motoi et al.
2019/0028598	A1*	1/2019	Takano H04N 1/2376	2022/0313338	A1	10/2022	Carroll et al.
2019/0069957	A1	3/2019	Barral et al.	2022/0313341	A1*	10/2022	Wiener G16H 30/40
2019/0125455	A1	5/2019	Shelton, IV et al.	2022/0313342	A1	10/2022	Leuck et al.
2019/0200844	A1	7/2019	Shelton, IV et al.	2022/0313357	A1	10/2022	Geresy et al.
2019/0200906	A1	7/2019	Shelton, IV et al.	2022/0313369	A1	10/2022	Oberkircher et al.
2019/0200981	A1	7/2019	Harris et al.	2022/0313370	A1	10/2022	Morgan et al.
2019/0201102	A1	7/2019	Shelton, IV et al.	2022/0313371	A1	10/2022	Morgan et al.
2019/0201140	A1	7/2019	Yates et al.	2022/0313372	A1	10/2022	Herman et al.
2019/0201158	A1	7/2019	Shelton, IV et al.	2022/0313373	A1	10/2022	Morgan et al.
2019/0206563	A1	7/2019	Shelton, IV et al.	2022/0317750	A1	10/2022	Jayne et al.
2019/0224434	A1	7/2019	Silver et al.	2022/0317751	A1	10/2022	Samuel et al.
2019/0236840	A1	8/2019	Zuckerman et al.	2022/0318179	A1	10/2022	Morgan et al.
2019/0247141	A1	8/2019	Batchelor et al.	2022/0319685	A1	10/2022	Vachon et al.
2019/0278262	A1	9/2019	Taylor et al.	2022/0319693	A1	10/2022	Oberkircher et al.
2019/0279524	A1	9/2019	Stoyanov et al.	2022/0321059	A1	10/2022	Samuel et al.
2019/0348169	A1	11/2019	Gibby et al.	2022/0322523	A1	10/2022	Jayne et al.
2019/0371012	A1	12/2019	Flexman et al.	2022/0331013	A1	10/2022	Shelton, IV et al.
2020/0004487	A1	1/2020	Hanajima et al.	2022/0331047	A1	10/2022	Shelton, IV et al.
2020/0015899	A1	1/2020	Scheib et al.	2022/0331048	A1	10/2022	Shelton, IV et al.
2020/0015900	A1	1/2020	Scheib et al.	2022/0331049	A1	10/2022	Shelton, IV et al.
2020/0015907	A1	1/2020	Scheib	2022/0331050	A1	10/2022	Shelton, IV et al.
2020/0015924	A1	1/2020	Scheib et al.	2022/0331051	A1	10/2022	Shelton, IV et al.
2020/0030044	A1	1/2020	Wang et al.	2022/0331052	A1	10/2022	Shelton, IV et al.
2020/0038120	A1	2/2020	Ziraknejad et al.	2022/0331053	A1	10/2022	Kimball et al.
2020/0078070	A1	3/2020	Henderson et al.	2022/0331054	A1	10/2022	Kimball et al.
2020/0078071	A1	3/2020	Asher	2022/0331056	A1	10/2022	Shelton, IV et al.
2020/0078076	A1	3/2020	Henderson et al.	2022/0334787	A1	10/2022	Jogan et al.
2020/0078077	A1	3/2020	Henderson et al.	2022/0335604	A1	10/2022	Vanosdoll et al.
2020/0078078	A1	3/2020	Henderson et al.	2022/0335660	A1	10/2022	Shelton, IV et al.
2020/0078079	A1	3/2020	Morgan et al.	2022/0335696	A1	10/2022	Shelton, IV et al.
2020/0078080	A1	3/2020	Henderson et al.	2022/0336078	A1	10/2022	Wise et al.
2020/0078081	A1	3/2020	Jayne et al.	2022/0336097	A1	10/2022	Shelton, IV et al.
2020/0078082	A1	3/2020	Henderson et al.	2022/0337891	A1	10/2022	Burnley et al.
2020/0078083	A1	3/2020	Sprinkle et al.	2022/0338049	A1	10/2022	Ross et al.
2020/0078089	A1	3/2020	Henderson et al.	2023/0038130	A1	2/2023	Cvetko et al.
2020/0078106	A1	3/2020	Henderson et al.	2023/0039037	A1	2/2023	Henderson et al.
2020/0078110	A1	3/2020	Henderson et al.	2023/0069787	A1	3/2023	Henderson et al.
2020/0078111	A1	3/2020	Oberkircher et al.	2023/0072423	A1	3/2023	Osborn et al.
2020/0078112	A1	3/2020	Henderson et al.				
2020/0078113	A1	3/2020	Sawhney et al.				
2020/0078114	A1	3/2020	Asher et al.				
2020/0078115	A1	3/2020	Asher et al.				
2020/0078116	A1	3/2020	Oberkircher et al.				
2020/0078117	A1	3/2020	Henderson et al.				
2020/0078118	A1	3/2020	Henderson et al.				
2020/0078119	A1	3/2020	Henderson et al.				
2020/0078120	A1	3/2020	Aldridge et al.				
2020/0081585	A1	3/2020	Petre et al.				
2020/0090808	A1	3/2020	Carroll et al.				
2020/0100825	A1	4/2020	Henderson et al.				
2020/0100830	A1	4/2020	Henderson et al.				
2020/0106220	A1	4/2020	Henderson et al.				
2020/0159313	A1	5/2020	Gibby et al.				
				FOREIGN PATENT DOCUMENTS			
				EP	0929263	B1	7/1999
				EP	1006892	B1	6/2009
				EP	2942023	A2	11/2015
				JP	2000089850	A	3/2000
				JP	2001029353	A	2/2001
				WO	WO-0112089	A1	2/2001
				WO	WO-2008053485	A1	5/2008
				WO	WO-2014031800	A1	2/2014
				WO	WO-2014071184	A1	5/2014
				WO	WO-2015047693	A1	4/2015
				WO	WO-2017058617		4/2017
				WO	WO-2018116247	A1	6/2018

(56)

References Cited

FOREIGN PATENT DOCUMENTS

WO WO-2019215354 A1 11/2019
WO WO-2021044136 A1 3/2021

OTHER PUBLICATIONS

“Electrosurgical Generator ECONT-0201.3” Mar. 18, 2018, posted at contact-endoscopy.com, [site visited Aug. 6, 2021]. <https://contact-endoscopy.com/electrosurgical-system> (Year: 2018).*

“ATM-MPLS Network Interworking Version 2.0, af-aic-0178.001” ATM Standard, The ATM Forum Technical Committee, published Aug. 2003.

IEEE Std 802.3-2012 (Revision of IEEE Std 802.3-2008, published Dec. 28, 2012.

Sorrells, P., “Application Note AN680. Passive RFID Basics,” retrieved from <http://ww1.microchip.com/downloads/en/AppNotes/00680b.pdf> on Feb. 26, 2020, Dec. 31, 1998, pp. 1-7.

Zhu et al. “Haptic-feedback smart glove as a creative human-machine interface (HMI) for virtual/augmented reality applications,” SCI. ADV, vol. 6, No. 19, May 8, 2020.

Qian, et al., “A Review of Augmented Reality in Robotic-Assisted Surgery”, IEEE Transactions on Medical Robotics and Bionics, IEEE, vol. 2, No. 1, pp. 1-16, Feb. 2020.

Yu et al., “Skin-Integrated Wireless Haptic Interfaces for Virtual and Augmented Reality,” Nature, vol. 575, pp. 473-479, Nov. 21, 2019.

Li et al., “Wearable Energy Harvesters Generating Electricity From Low-Frequency Human Limb Movement,” Microsystems & Nanoengineering (2018), vol. 4(24), 13 pages.

* cited by examiner

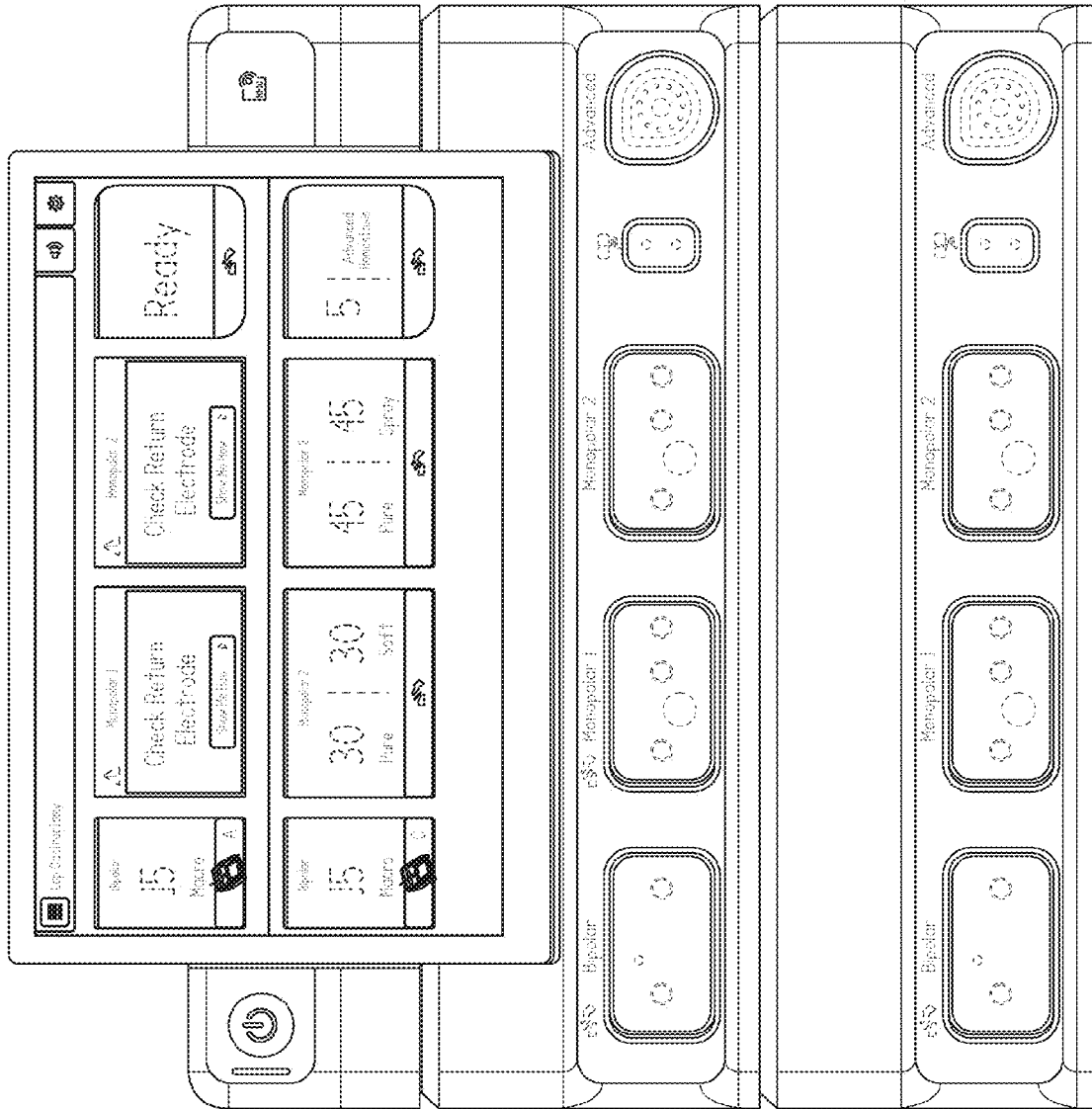


FIG. 1

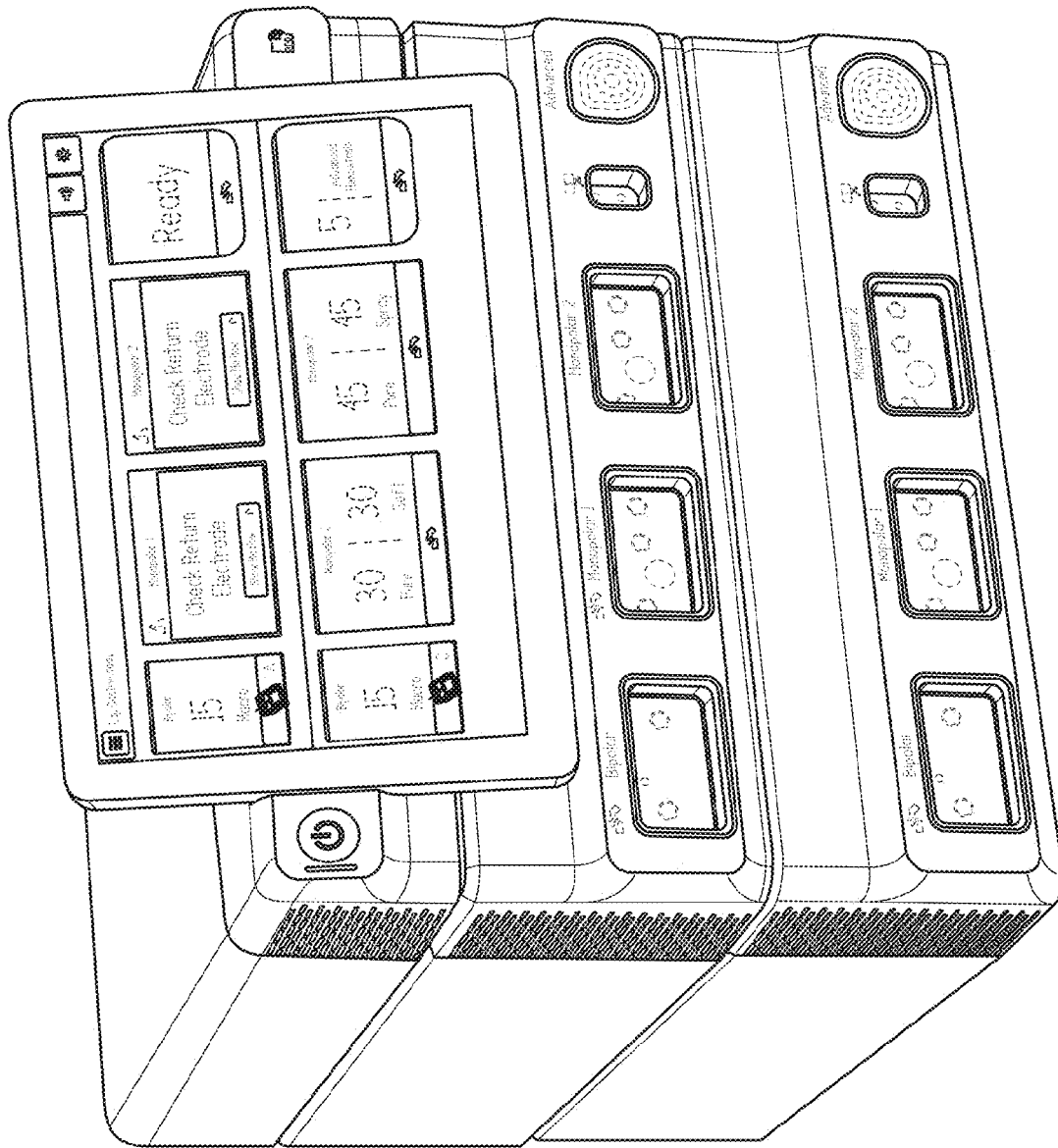


FIG. 2