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Mairs et al.

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(54) **DISPLAY SCREEN OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE**

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6,381,556 B1 4/2002 Kazemi et al.
6,993,504 B1 1/2006 Friesen et al.
7,200,529 B2 * 4/2007 Cifra G06F 8/34 702/189
D573,599 S 7/2008 Williams
(Continued)

FOREIGN PATENT DOCUMENTS

EP 1802370 A2 7/2007
WO 2006041881 A2 4/2006
(Continued)

OTHER PUBLICATIONS

“Inspire Sleep Apnea Innovation” Nov. 2019, posted at q4live.s22.clientfiles.s3-website-us-east-1.amazonaws.com, [site visited Jun. 14, 2023]. http://q4live.s22.clientfiles.s3-website-us-east-1.amazonaws.com/384014896/files/doc_presentations/2019/11/inspcopres2019nov.pdf (Year: 2019).*

(Continued)

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CLAIM

The ornamental design for a display screen or portion thereof with a graphical user interface, as shown and described.

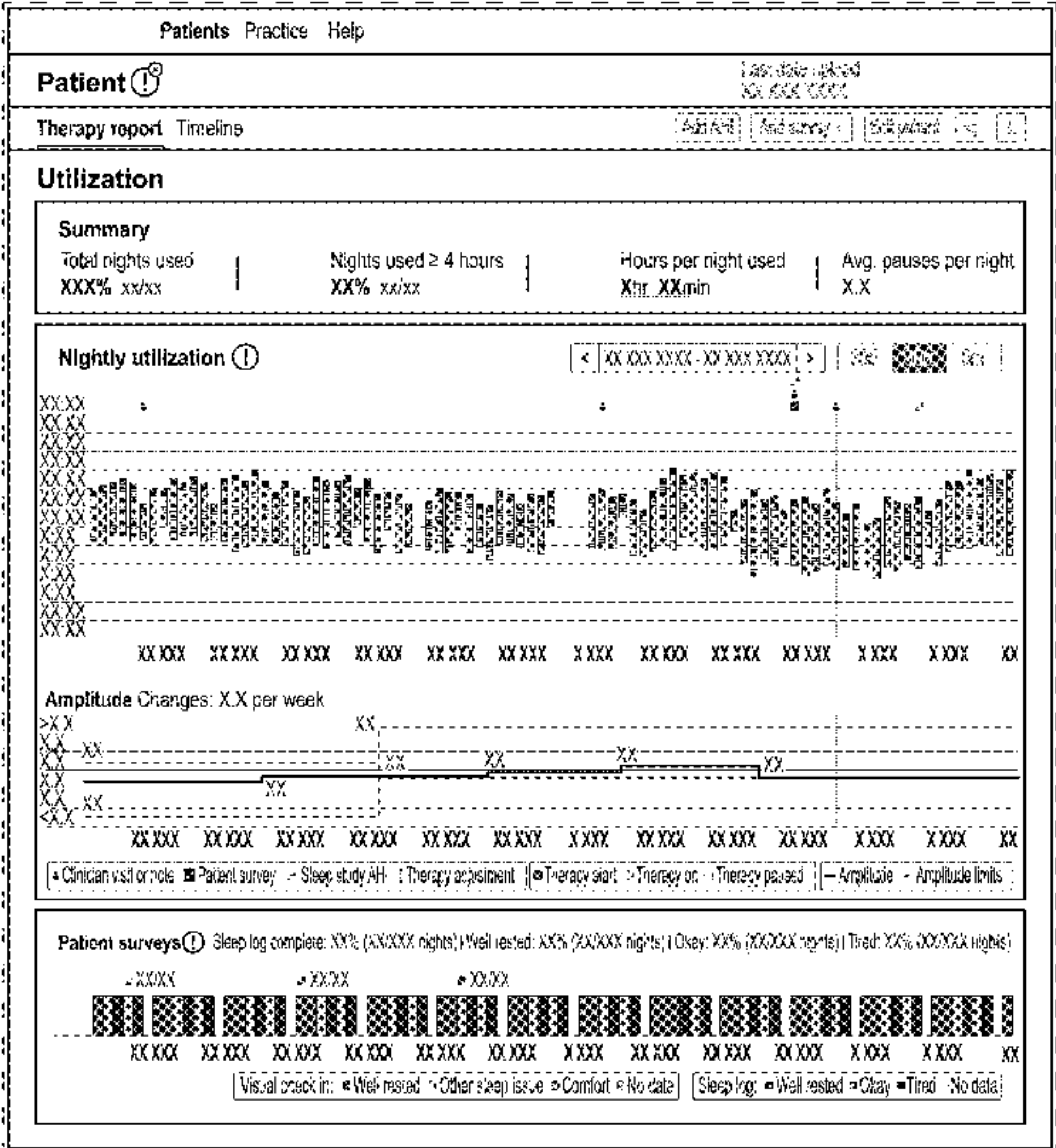
DESCRIPTION

The FIGURE is a front view of a display screen or portion thereof with a graphical user interface showing our new design.
In the FIGURE, the outermost broken lines show a display screen or portion thereof and form no part of the claimed design. The remaining broken lines show elements of the graphical user interface that form no part of the claimed design.

(56) **References Cited**
U.S. PATENT DOCUMENTS

D420,993 S 2/2000 Decker
D436,580 S 1/2001 Navano et al.

1 Claim, 1 Drawing Sheet



(56)

References Cited

U.S. PATENT DOCUMENTS

D593,109 S	5/2009	Danton	
D600,248 S	9/2009	Scalisi et al.	
D614,191 S	4/2010	Takano et al.	
D634,749 S	3/2011	Brown	
D635,579 S	4/2011	Scalisi et al.	
D637,603 S	5/2011	Godgart	
D640,265 S	6/2011	Brouwers et al.	
D656,153 S	3/2012	Imamura et al.	
D667,837 S	9/2012	Magee et al.	
D667,838 S	9/2012	Magee et al.	
D674,810 S	1/2013	Goodspeed et al.	
D674,812 S *	1/2013	Joseph	D14/486
D681,047 S	4/2013	Park et al.	
D685,812 S	7/2013	Bork et al.	
D689,065 S	9/2013	Glaeske et al.	
D689,081 S	9/2013	Rhee et al.	
D691,157 S	10/2013	Ramesh et al.	
D691,158 S	10/2013	Ramesh et al.	
D712,918 S	9/2014	Frick et al.	
D714,339 S	9/2014	Hendrickson et al.	
D751,085 S	3/2016	Winther et al.	
D752,621 S	3/2016	Cojuangco	
D756,371 S	5/2016	Bertnick et al.	
D759,073 S *	6/2016	Winklevoss	D14/486
D760,237 S	6/2016	Sabadosh et al.	
D760,248 S	6/2016	Suarez	
D761,290 S	7/2016	Chen et al.	
D765,120 S	8/2016	Kim et al.	
9,452,293 B2	9/2016	Rondoni et al.	
D771,066 S	11/2016	Alvarez et al.	
D774,060 S *	12/2016	Dias	D14/486
D774,527 S	12/2016	Klein et al.	
D774,528 S	12/2016	Klein et al.	
D774,529 S	12/2016	Klein et al.	
D776,136 S	1/2017	Chen et al.	
D777,177 S	1/2017	Chen et al.	
D778,928 S	2/2017	Bertnick et al.	
D781,889 S	3/2017	Wills et al.	
D786,891 S	5/2017	Wright et al.	
D791,153 S	7/2017	Rice et al.	
D794,047 S	8/2017	Gandhi et al.	
D797,760 S	9/2017	Tsujimura et al.	
D799,522 S	10/2017	Eder	
9,839,786 B2	12/2017	Rondoni et al.	
D808,408 S	1/2018	Bombolowsky	
D808,996 S	1/2018	Ambielli	
D809,530 S	2/2018	Matheson et al.	
D810,106 S	2/2018	Storm et al.	
D812,081 S	3/2018	Saneii	
D812,633 S	3/2018	Saneii	
D816,689 S	5/2018	Chalker et al.	
D820,292 S	6/2018	Mander et al.	
D823,860 S	7/2018	Wiffen et al.	
D826,977 S	8/2018	Nakajima et al.	
D828,372 S	9/2018	Kolbenheyer	
D832,865 S	11/2018	Dieken et al.	
D833,461 S	11/2018	Dieken et al.	
D836,652 S	12/2018	Fowler et al.	
D836,655 S	12/2018	Hotchkiss et al.	
D840,422 S	2/2019	Tuthill et al.	
D840,426 S	2/2019	Dieken et al.	
D841,031 S	2/2019	Orlando et al.	
D842,313 S	3/2019	Kagan et al.	
D842,314 S	3/2019	Govindan Sankar Selvan et al.	
D847,170 S	4/2019	Lirov et al.	
D848,468 S	5/2019	Ng et al.	
D854,560 S	7/2019	Field et al.	
D854,561 S	7/2019	Field et al.	
D856,365 S	8/2019	Lofberg et al.	
D866,577 S	11/2019	Eisert et al.	
D869,490 S	12/2019	Rondoni et al.	
D871,433 S	12/2019	Rondoni et al.	
D871,434 S	12/2019	Rondoni et al.	
D877,166 S *	3/2020	Dieken	D14/485
10,628,436 B2	4/2020	Berger et al.	
D884,008 S	5/2020	Thornberg	
D884,717 S	5/2020	Clymer et al.	
D885,413 S	5/2020	Ramkumar et al.	
D886,125 S	6/2020	Kumar et al.	
D888,082 S	6/2020	Weick et al.	
10,691,304 B1	6/2020	Anand et al.	
D890,775 S	7/2020	Clay	
D890,783 S	7/2020	Casse et al.	
D892,143 S	8/2020	Dascola et al.	
D892,819 S *	8/2020	Mensingher	D14/485
D893,524 S	8/2020	Sabourenkov	
D896,828 S	9/2020	Linares et al.	
D899,454 S	10/2020	Rondoni et al.	
D916,767 S	4/2021	VanSickler et al.	
D917,517 S	4/2021	Dye et al.	
D917,530 S	4/2021	Tran-Kiem et al.	
D918,253 S	5/2021	Choe et al.	
D921,662 S	6/2021	Giannino et al.	
D921,673 S	6/2021	Kmak et al.	
D921,675 S	6/2021	Kmak et al.	
D924,261 S *	7/2021	Dieken	D14/485
D924,909 S	7/2021	Nasu et al.	
D927,528 S	8/2021	Heisler et al.	
D930,677 S	9/2021	Sastry	
D933,674 S	10/2021	Doyle et al.	
D934,884 S	11/2021	Bergental et al.	
D937,870 S	12/2021	Pinto et al.	
D937,876 S	12/2021	Harvey	
D938,461 S	12/2021	Hoffman et al.	
D939,540 S	12/2021	Mullen et al.	
D940,178 S	1/2022	Ang	
D941,358 S	1/2022	Rondoni et al.	
D941,849 S	1/2022	Knowles et al.	
D943,606 S	2/2022	Zheng et al.	
D944,819 S	3/2022	Kim et al.	
D946,022 S	3/2022	Nuttbrown et al.	
D946,023 S	3/2022	Nuttbrown et al.	
D946,024 S	3/2022	Vogler-Ivashchanka et al.	
D946,025 S	3/2022	Vogler-Ivashchanka et al.	
D946,033 S	3/2022	Trenkner et al.	
D946,040 S	3/2022	Kramer et al.	
D946,610 S	3/2022	VanSickler et al.	
D947,215 S	3/2022	Naroshevitch et al.	
D949,882 S	4/2022	Mao et al.	
D949,883 S	4/2022	Francis et al.	
D950,590 S	5/2022	Ziegenfuss et al.	
D950,592 S	5/2022	Kharat et al.	
D950,597 S	5/2022	Hashimoto et al.	
D951,971 S *	5/2022	Dieken	D14/485
11,321,767 B1	5/2022	Myers et al.	
D959,481 S	8/2022	Hsu et al.	
D964,406 S *	9/2022	Mairs	D14/486
2006/0271480 A1	11/2006	Allin et al.	
2006/0277206 A1	12/2006	Bailey et al.	
2009/0164249 A1	6/2009	Hunt et al.	
2010/0121707 A1 *	5/2010	Goeldi	G06Q 30/0251 379/265.09
2010/0185183 A1	7/2010	Alme et al.	
2012/0221589 A1	8/2012	Shahar	
2013/0325504 A1 *	12/2013	Greene	G16H 40/63 705/3
2014/0025132 A1	1/2014	Libbus et al.	
2014/0039842 A1 *	2/2014	Yuen	A61B 5/1118 702/189
2014/0115471 A1	4/2014	Demkin et al.	
2015/0213211 A1	7/2015	Zaleski	
2015/0242997 A1 *	8/2015	Sun	G06T 3/60 345/649
2016/0367184 A1	12/2016	Lim	
2017/0085436 A1	3/2017	Costa et al.	
2017/0140071 A1	5/2017	Coates et al.	
2017/0201861 A1	7/2017	Freeman-baer et al.	
2017/0263144 A1	9/2017	Horan	
2019/0066831 A1	2/2019	Mairs et al.	
2019/0175026 A1	6/2019	Verzal et al.	
2019/0365228 A1	12/2019	Rondoni et al.	
2019/0371478 A1	12/2019	Rondoni et al.	

(56)

References Cited

U.S. PATENT DOCUMENTS

2019/0371479 A1 12/2019 Rondoni et al.
2022/0344017 A1 10/2022 Lowrey et al.

FOREIGN PATENT DOCUMENTS

WO 2021016558 A1 1/2021
WO 2022182756 A1 9/2022

OTHER PUBLICATIONS

Brusie, Chaunie, “Advances in Neurostimulator Technology . . . ” May 10, 2023, posted at sleepreviewmag.com, [site visited Jun. 14, 2023]. <https://sleepreviewmag.com/sleep-treatments/therapy-devices/neurostimulators/advances-neurostimulator-technology-ease-utilization-sleep-patients> (Year: 2023).*

PCT International Search Report for PCT/US2022/017517, mailed Jun. 9, 2022. 14 pages.
“Inspire Sleep Apnea Innovation”, Nov. 2019, posted at q4live.s22.clientfiles.s3-website-us-east-1.amazonaws.com, [site visited Jun. 14, 2023]. http://q4live.s22.clientfiles.s3-website-us-east-1.amazonaws.com/384014896/files/doc_presentations/2019/11/inspcopres2019nov.pdf. (Year: 2019) 3 pages.
Brusie, Chaunie, “Advances in Neurostimulator Technology . . . ” May 10, 2023, posted at sleepreviewmag.com, [site visited Jun. 14, 2023]. <https://sleepreviewmag.com/sleep-treatments/therapy-devices/neurostimulators/advances-neurostimulator-technology-ease-utilization-sleep-patients>. (Year: 2023) 2 pages.
Barnea, Dana. “Improving medical report GUI.” behance.net. Published Jun. 23, 2018. Retrieved May 12, 2022 online at URL: <https://www.behance.net/gallery/67126609/Improving-medical-report-GUI> (Year: 2018).

* cited by examiner

Patients
Practice
Help

Patient ⓘ

Last date uploaded
XX/XX/XXXX

Therapy report
Timeline

Add AHI
Add survey
Edit pattern

Utilization

Summary

Total nights used
XXX% xx/xx

Nights used ≥ 4 hours
XX% xx/xx

Hours per night used
Xhr XXmin

Avg. pauses per night
X.X

Nightly utilization ⓘ

<
XX XXX XXXX - XX XXX XXXX
>

30d
30d
6m

Amplitude Changes: X.X per week

• Clinician visit or note
■ Patient survey
⚡ Sleep study AHI
⚡ Therapy adjustment
■ Therapy start
⊗ Therapy on
□ Therapy paused
— Amplitude
--- Amplitude limits

Patient surveys ⓘ

Sleep log complete: XX% (XX/XXX nights) | Well rested: XX% (XX/XXX nights) | Okay: XX% (XX/XXX nights) | Tired: XX% (XX/XXX nights)

Visual check in:
■ Well rested
⊗ Other sleep issue
⊗ Comfort
⊗ No data

Sleep log:
■ Well rested
⊗ Okay
■ Tired
□ No data