



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

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(54) **SLEEP AID DEVICE**

H05B 3/0052; A61H 33/04; A61H
2033/047; A61N 5/0616; A61N
2005/0652; A61N 2005/0644; A61N 7/00;
A61N 1/0472;

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(Continued)

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(30) **Foreign Application Priority Data**

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(52) **U.S. Cl.**
USPC **D24/200**

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D24/141, 108, 111, 113, 127, 143, 148,
D24/152-154, 176, 179, 206, 209-216;
D7/323, 391, 354, 538, 629; D9/435,
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D28/44, 54.1, 56-58, 61, 99; D23/240,
D23/362, 364, 366; D14/341; D8/4,
D8/29.1, 29.2, 30-31, 39

CPC A61F 7/00; A61F 7/007; A61F 7/0085;
A61F 2007/0001; A61F 2007/0003; A61F
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2007/0043; A47J 36/06; A61L 9/03;
A61L 9/12; F27B 14/12; H05B 3/00;

(56) **References Cited**

U.S. PATENT DOCUMENTS

486,725 A * 11/1892 Mellor H04R 1/1008
181/129
D578,222 S * 10/2008 Sakurai D24/187
(Continued)

OTHER PUBLICATIONS

Forthiq Neck Tens Machine , first available Feb. 16, 2021, amazon.
co.uk, [online], [site visited Aug. 3, 2023], Available from internet
URL: <https://www.amazon.co.uk/dp/B08WPL7247/> (Year: 2021).*
(Continued)

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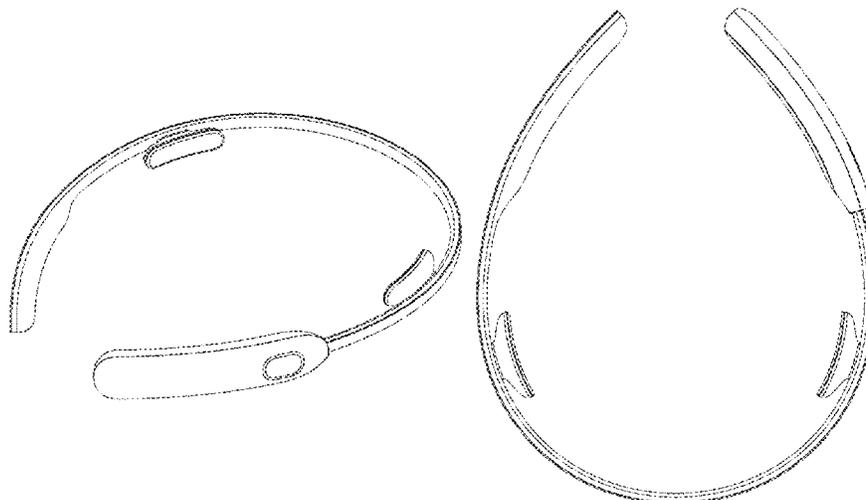
(57) **CLAIM**

The ornamental design for a sleep aid device, as shown and
described.

DESCRIPTION

FIG. 1 is a perspective view of a sleep aid device showing
our new design;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a left side view thereof;
FIG. 5 is a right side view thereof;
FIG. 6 is a top view thereof; and,
FIG. 7 is a bottom view thereof.
The broken lines depict portions of the sleep aid device that
form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(58) **Field of Classification Search**

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 A61N 2005/0663; A61N 2005/067; A61N
 2007/0082; A45D 29/00; A45D 29/18;
 A45D 29/20; A45D 2200/205; A45D
 2200/155; A45D 29/11; A45D 29/14;
 A45D 26/0014; A45D 2026/008; F24H
 9/02

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D604,269	S	*	11/2009	Choe	.....	D14/205
D623,306	S	*	9/2010	Boyer	.....	D24/106
D625,020	S	*	10/2010	Lauzis	.....	D24/200
D709,673	S	*	7/2014	Aimone	.....	D2/875
D716,759	S	*	11/2014	Ha	.....	D14/205
D719,155	S	*	12/2014	Lee	.....	D14/372
D730,867	S	*	6/2015	Park	.....	D14/205
D750,794	S	*	3/2016	Guarraia	.....	D24/200
D751,214	S	*	3/2016	Guarraia	.....	D24/200
D752,766	S	*	3/2016	Guarraia	.....	D24/200
D753,316	S	*	4/2016	Guarraia	.....	D24/200
D830,341	S	*	10/2018	Yokozeki	.....	D14/210

D881,838	S	*	4/2020	Aoyagi	.....	D14/205
D884,201	S	*	5/2020	Fang	.....	D24/206
D890,354	S	*	7/2020	Fang	.....	D24/206
D916,300	S	*	4/2021	Fearis	.....	D24/200
D950,702	S	*	5/2022	Zhu	.....	D23/380
D961,789	S	*	8/2022	Ding	.....	D23/370
D995,473	S	*	8/2023	Aoyagi	.....	D14/205
2019/0336766	A1	*	11/2019	Lee	.....	A61B 5/398

OTHER PUBLICATIONS

There's a 360-degree wearable camera that is absolutely demolishing its Kickstarter goal, first available Feb. 17, 2018, mashable.com, [online], [site visited Sep. 24, 2023], Available from internet URL: <https://mashable.com/deals/fit360-360-degree-camera-kickstarter> (Year: 2018).*

DepressiStim Announces Clinical Trial Progress, first available Mar. 6, 2023, leonhardtventures.com, [online], [site visited Sep. 24, 2023], Available from internet URL: <https://leonhardtventures.com/depressistim-announces-clinical-trial-progress/> (Year: 2023).*

Sleep i Mask, Sleep Band, Sleep, Wearable device, tradekorea.com, [online], [site visited Sep. 24, 2023], Available from internet URL: <https://www.tradekorea.com/product/detail/P767641/Sleep-i-Mask,-Sleep-Band,-Sleep,-Wearable-device,-Healthcare.html?minisiteprodgroupno=> (Year: 2023).*

* cited by examiner

FIG. 1

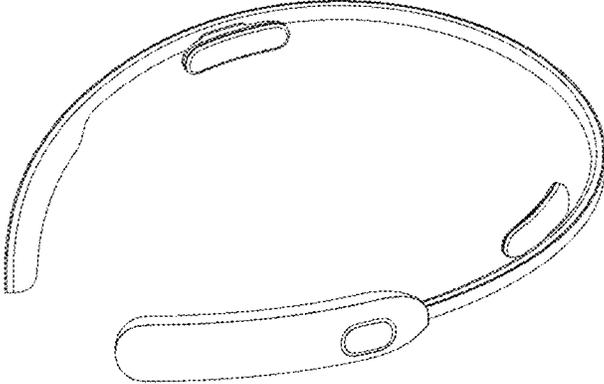


FIG. 2



FIG. 3

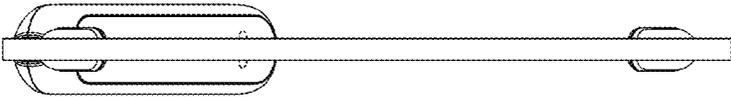


FIG. 4



FIG. 5



FIG. 6

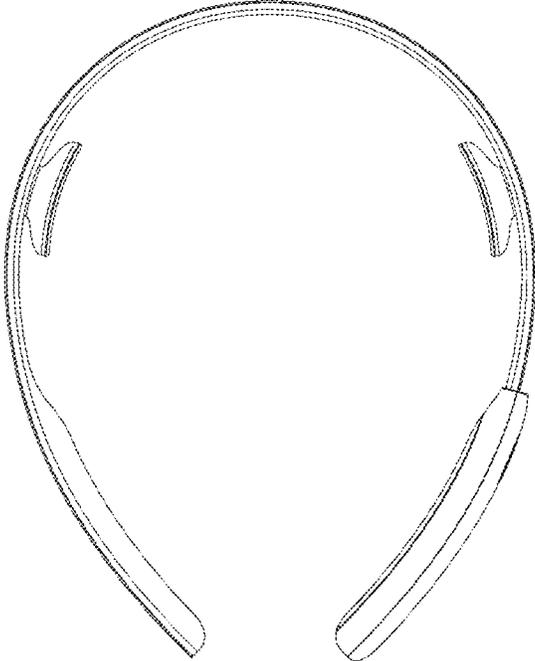


FIG. 7

