

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
29 September 2022 (29.09.2022)



(10) International Publication Number
WO 2022/204493 A1

(51) International Patent Classification:

G16H 15/00 (2018.01) G16H 50/30 (2018.01)
G16H 20/70 (2018.01) A61B 5/00 (2006.01)
G16H 40/63 (2018.01)

(21) International Application Number:

PCT/US2022/021914

(22) International Filing Date:

25 March 2022 (25.03.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/166,490 26 March 2021 (26.03.2021) US

(71) Applicant: **SLEEP NUMBER CORPORATION**
[US/US]; 1001 Third Avenue South, Minneapolis, Min-
nesota 55404 (US).

(72) Inventors: **STUSYNSKI, Stacy**; 11760 Naples Circle NE,
Blaine, Minnesota 55449 (US). **SWENBY, Kristen Eliz-**

abeth; 10838 Sanctuary Dr NE, Blaine, Minnesota 55449
(US). **GARCIA MOLINA, Gary N.**; 2853 Interlaken Pass,
Madison, Wisconsin 53719 (US).

(74) Agent: **NELSON, Stuart A.**; P.O. Box 1022, Minneapolis,
Minnesota 55440-1022 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JM, JO, JP, KE, KG, KH,
KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA,
MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU,
RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,

(54) Title: SLEEP SYSTEM WITH FEATURES FOR PERSONALIZED SLEEP RECOMMENDATIONS

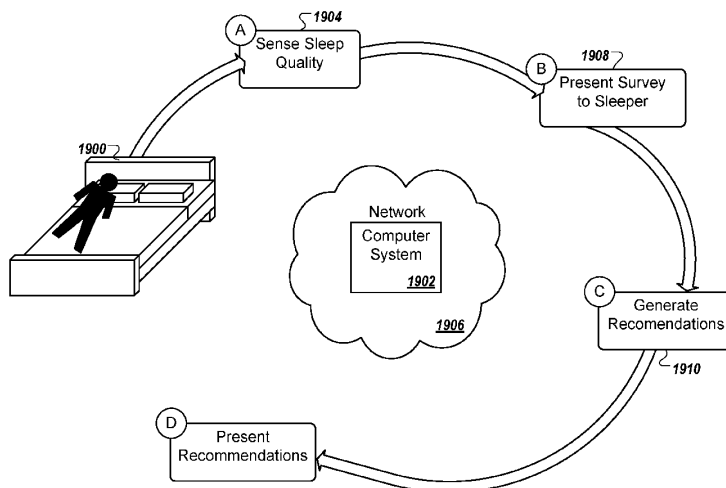


FIG. 19

(57) Abstract: Time data is received from a clock. A user selection of an alertness rating is received. A template of general behavior recommendation is received that has been completed with information specific to the user. The information specific to the user is generated based at least on the i) readings. The method also includes ii) time data. The method also includes and iii) user selection of alertness rating. A behavior recommendation is assembled by completing the template with the information specific to the user. The computer system output is generated with the assembled behavior recommendation.

[Continued on next page]

GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

— *with international search report (Art. 21(3))*