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- (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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
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[Continued on next page]

(54) **Title:** CONCEALABLE SUSPENDED SURFACES

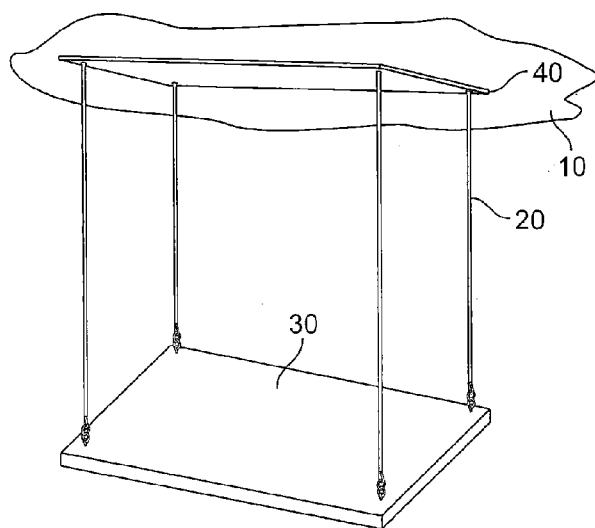


FIG. 1A

(57) **Abstract:** A table or surface 30 which is suspended from a ceiling 10 and fully retractable to be flush with or recessed in the ceiling 10 that can be lowered to serve as the work surface, coffee table or other convenient table. The table 30 is made from lightweight materials and can be raised or lowered using battery power 50. The circuitry for raising or lowering the table along with the motor 80 and other mechanical elements and the means receiving a user may be located in the table or in a plate 40 attached to the ceiling 10. When the table 30 is fully raised it is concealed by using decorative means or by recessing it into the ceiling (Figs. 2A-C).



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A47B 3/00, A47B 5/00; A47C 17/84 (2015.01)

CPC - A47B 2005/003, A47C 17/84, E04B 9/006

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

CPC - A47B 2005/003, A47C 17/84, E04B 9/006

IPC(8) - A47B 3/00, A47B 5/00; A47C 17/84 (2015.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

CPC - A47B 2005/003, A47C 17/84, E04B 9/006

IPC(8) - A47B 3/00, A47B 5/00; A47C 17/84 (2015.01); USPC - 5/10.1, 5/10.2, 248/317, 248/343, 108/42, 108/149

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Patbase; Google, Google Patent

Search terms used: surface desk table shelf suspend retract ceiling elevate vertical hoist hang furniture bed table platform motor remote battery seconds time lbs weigh raise lower cable rope

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2,844,428 A (PUNTENNEY) 22 July 1958 (22.07.1958), col 4, ln 66-col 5, ln 13; col 4, ln 66-col 5, ln 13; Fig 1, 10, 11	1-10
Y	US 2007/0249280 A1 (JOHNSON) 25 October 2007 (25.10.2007), para [0002], [0019], [0020],	1-10
Y	US 2010/0132113 A1 (ROEPKE) 03 June 2010 (03.06.2020), para [0013], [0042], [0060], [0061]	1-6
A	US 7,168,371 B1 (RUFF) 30 January 2007 (30.01.2007), entire document	1-10
A	US 2003/0192836 A1 (ULRICH) 16 October 2003 (16.10.2003), entire document	1-10
A	US 1,065,740 A (SORLEIN) 24 June 1913 (24.06.1913), entire document	1-10

☐ Further documents are listed in the continuation of Box C.

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"&" document member of the same patent family

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