



- (51) International Patent Classification:
B66B 1/46 (2006.01)
- (21) International Application Number:
PCT/EP2024/077548
- (22) International Filing Date:
01 October 2024 (01.10.2024)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
23203797.8 16 October 2023 (16.10.2023) EP
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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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, 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.

(54) Title: BUILDING SYSTEM WITH ELEVATOR AND ROUTE PLANNING FUNCTIONALITY

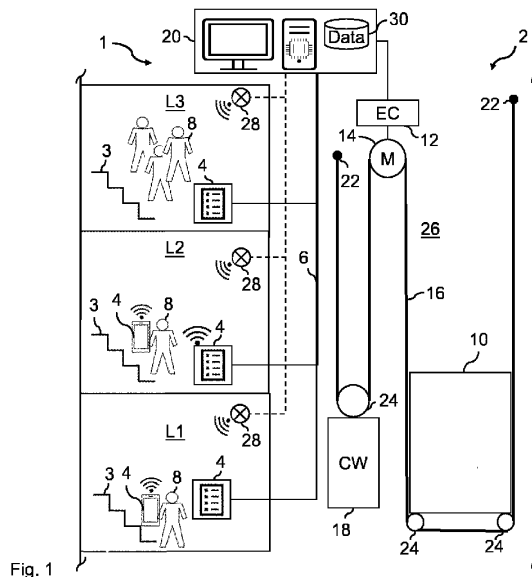


Fig. 1

(57) Abstract: A building system (1) includes an elevator (2) and a route planning computer (20) coupled to receive elevator call information. The elevator call information includes a call entry floor (L1, L2, L3) and a destination within the building. The route planning computer (20) compares estimated electrical energy needed for a direct elevator trip between the call entry floor (= boarding floor) to the destination (= destination floor) with estimated electrical energy needed for an indirect elevator trip in which the boarding floor is different from the call entry floor and/or the destination floor is different from the desired destination. If the indirect elevator trip needs less electrical energy, the route planning computer (20) generates and communicates an energy-oriented trip schedule to the user (8) that includes the determined boarding floor and/or the determined destination floor and guidance information for guiding the user (8) from the call input floor to the boarding floor and/or from the destination floor to the floor associated with the desired destination.

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(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*

In such an indirect elevator trip, the user 8 is expected to use the stairwell 3 to bridge the one or more floor differences.