



**(51) International Patent Classification:**  
*B66B 1/24 (2006.01)*

(72) **Inventor: BLOOMGREN, Ryan**; 350B Center Street,  
Landing, New Jersey 07850 (US).

**(21) International Application Number:** PCT/EP2021/056293

**(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, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, 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.

(22) **International Filing Date:** 12 March 2021 (12.03.2021)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**  
20162865.8      13 March 2020 (13.03.2020)      EP

**(71) Applicant: INVENTIO AG** [CH/CH]; Seestrasse 55, 6052 Hergiswil (CH).

**(84) Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,

---

---

(54) Title: ELEVATOR SYSTEM WITH QUEUEING FUNCTION FOR ROBOT TRAFFIC

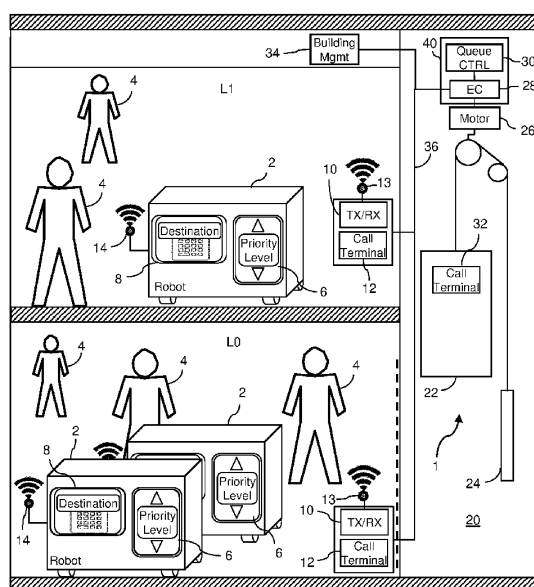


Fig. 1

**(57) Abstract:** In an elevator installation (1) having an elevator control system (40) and an elevator car (22) controlled by the elevator control system (40), the elevator control system (40) is configured to receive an elevator call from a person (4) via a call terminal (12) and from a robot (2) via a radio transceiver (10) to communicate with the elevator control system (40). A current transport capacity of the elevator installation (1) is determined by the elevator control system (40), wherein the transport capacity is indicative of current usage of the elevator installation (1). An elevator call originating from the robot (2) via the radio transceiver (10) is recognized by the elevator control system (40), wherein the elevator call from the robot (2) includes a priority level (PL) set by a dispatcher of the robot, wherein the priority level (PL) is one of a high priority range, a medium priority range and a low priority range, wherein the elevator call is indicative of a boarding floor. The allocation of the elevator call originating from the robot (2) to the elevator car (22) is delayed

[Continued on next page]

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))*

---

if the priority level is set to the medium priority range and the current transport capacity is lower than a first threshold value, or if the priority level is set to the low priority range and the current transport capacity is lower than a second threshold value.