

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 January 2006 (05.01.2006)

PCT

(10) International Publication Number
WO 2006/000618 A3

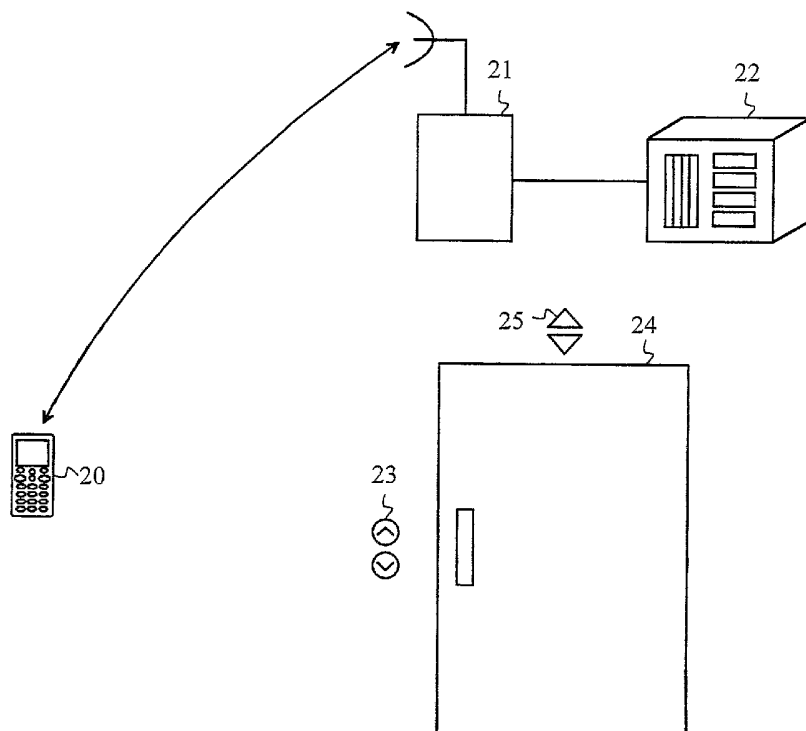
- (51) International Patent Classification:
B66B 1/46 (2006.01)
- (21) International Application Number:
PCT/FI2005/000225
- (22) International Filing Date: 18 May 2005 (18.05.2005)
- (25) Filing Language: Finnish
- (26) Publication Language: English
- (30) Priority Data:
20040891 28 June 2004 (28.06.2004) FI
- (71) Applicant (for all designated States except US): **KONE CORPORATION** [FI/FI]; Kartanontie 1, FI-00330 Helsinki (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **TYNI, Tapio** [FI/FI]; Vehmaskorventie 6, FI-05620 Hyvinkää (FI). **YLINEN, Jari** [FI/FI]; Kutojankatu 36, FI-05800 Hyvinkää (FI).
- (74) Agent: **KONE CORPORATION**; Patent Department, P.O. Box 677, FI-05801 Hyvinkää (FI).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

[Continued on next page]

(54) Title: ELEVATOR ARRANGEMENT



(57) Abstract: The present invention deals with a method and an apparatus for the input call needed in an elevator system by means of a wireless call input device. The call input device may be a device provided with a display and a keypad, designed especially for this use. In a preferred embodiment, the call input device is the user's mobile telephone and the system utilizes technology consistent with the Bluetooth standard. RFID technology or the use of bar codes is also possible. For the user a profile is created which contains the user's name, statistical information regarding the destination floors most frequently selected by the user, and possible additional services. The user can input a call from an elevator lobby before arriving to the elevator. After the system has allocated the most suitable elevator to the user, corresponding information is presented on the display of the call input device. This information can

be accompanied by guidance information and information about an estimated waiting time. The destination floor alternatives can also be programmed to the call input device by the user him/herself. Additional services can be provided to the user of the call system and to other parties working in the building by connecting the control system to the Internet e.g. via an embedded mobile telephone.

WO 2006/000618 A3



(88) Date of publication of the international search report:

8 June 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No
PCT/FI2005/000225

A. CLASSIFICATION OF SUBJECT MATTER
B66B1/46

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)
B66B

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

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 043 260 A (INVENTIO AG) 11 October 2000 (2000-10-11) abstract paragraphs '0008! - '0013!, '0019!, '0021! figures 1-4	1-42
Y	US 2003/159890 A1 (SCHUSTER KILIAN ET AL) 28 August 2003 (2003-08-28) abstract paragraph '0011! - paragraph '0018! figures 1-10	1-42
A	US 2004/060777 A1 (TAKEUCHI NOBUKAZU) 1 April 2004 (2004-04-01) abstract paragraph '0035! - paragraph '0052! figures 1-11	1-42
	----- -/--	

Further documents are listed in the continuation of Box C.

See patent family annex.

- * Special categories of cited documents :
- *A* document defining the general state of the art which is not considered to be of particular relevance
 - *E* earlier document but published on or after the international filing date
 - *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
 - *O* document referring to an oral disclosure, use, exhibition or other means
 - *P* document published prior to the international filing date but later than the priority date claimed
 - *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 - *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 - *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
 - *Z* document member of the same patent family

Date of the actual completion of the international search 2 February 2006	Date of mailing of the international search report 15/02/2006
--	--

Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Oosterom, M
---	---------------------------------------

INTERNATIONAL SEARCH REPORT

International application No
PCT/FI2005/000225

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 615 175 B1 (GAZDZINSKI ROBERT F) 2 September 2003 (2003-09-02) abstract column 2, line 65 - column 4, line 30 figures 1,15,16 ----- .	1-42

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/FI2005/000225

Patent document cited in search report	Publication date	Publication date	Patent family member(s)	Publication date
EP 1043260	A	11-10-2000	NONE	
<hr style="border-top: 1px dashed black;"/>				
US 2003159890	A1	28-08-2003	AT 291558 T	15-04-2005
			AT 312048 T	15-12-2005
			AU 4821301 A	12-11-2001
			BR 0110435 A	01-04-2003
			CA 2405695 A1	08-11-2001
			WO 0183351 A1	08-11-2001
			CN 1427799 A	02-07-2003
			DE 50105694 D1	28-04-2005
			ES 2238430 T3	01-09-2005
			HK 1054365 A1	30-06-2005
			JP 2003531792 T	28-10-2003
			MX PA02010709 A	10-03-2003
			NO 20025021 A	29-11-2002
			PT 1282578 T	29-07-2005
			ZA 200208418 A	10-11-2003
<hr style="border-top: 1px dashed black;"/>				
US 2004060777	A1	01-04-2004	EP 1457452 A1	15-09-2004
			WO 03053835 A1	03-07-2003
<hr style="border-top: 1px dashed black;"/>				
US 6615175	B1	02-09-2003	US 6988071 B1	17-01-2006
<hr style="border-top: 1px dashed black;"/>				